

Contaminant Information Sheets for the Final CCL 3 Chemicals

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Contaminant Information Sheets for the Final CCL 3 Chemicals

This File contains Contaminant Information Sheets for 106 chemical contaminants that are listed on the final third Contaminant Candidate List (CCL 3). (Note: there are 104 chemical entries listed in the Federal Register Notice for the final CCL 3; cyanotoxins are listed as a group. In this file, there are information sheets on three individual cyanotoxins that were evaluated in the CCL 3 process (Anatoxin-a, Cylindrospermopsin, and Microcystin-LR)). These sheets summarize information about the chemicals that were considered during the development of the CCL 3. The sheets are in alphabetical order. Each information sheet is two pages in length. There is an index/bookmark in this PDF file that can be used to negotiate the file. The bookmarks are hyperlinked. You can find the contaminant name in the bookmark list, click on it, and the hyperlink will take you to that file. This page intentionally left blank for double-sided printing

OEHHA Slope Factor (oral)

EPA Carcinogen classification

IARC Carcinogen Classification

Health Reference Level (HRL)²

Is contaminant on list of carcinogens?

Is the contaminant on a list of reproductive

Other Supporting Data

toxins? EPAHA-DWEL

Contaminant:	1,1,1,2-Tetrachl	oroethane		Attribute		3-model Categorical Prediction		
Substance Key:	9105			Potency Severity	Prevalence Magnitude	L?		
Contaminant ID (CASRN):	630206			5 8	3 6	HRL Ratio(s)		
HEALTH EFFECTS DATA ¹						NC HRL Ratio(S) NC HRL/NCOD R1 90%: 67.7 CAR HRL/NCOD R1 90%: 0.323		
Non-cancer data	Value	Units	Date	Critical Effect		Notes		
EPA OPP RfD		mg/kg-d			Reference Dose			
EPA IRIS (ITER) RfD	0.03	mg/kg-d	1987	Mineralization of the kidneys in males, hepatic clear cell change in females	Reference Dose; Basis LOAEL = 89.3 mg/k	g-d (NTP 1983)		
EPA HA RfD	0.03	mg/kg-d	2006		Reference Dose			
RAISHE RfD	0.03	mg/kg-d			Reference Dose			
ATSDR (ITER), MRL		mg/kg-d			Minimal Risk Level			
JMPR, maximum ADI		mg/kg-d			Acceptable Daily Intake			
CEDIADI, ADI		mg/kg-d			Acceptable Daily Intake			
ITER, TDI					Tolerable Daily Intake			
Supplemental RfD-like value					Supplemental Data			
CTDJPN Highest Chronic NOEL		mg/kg-d			No Observed Effect Level			
Supplemental NOEL		mg/kg-d			Supplemental Data			
RTECS Lowest Oral Chronic LOAEL		mg/kg-d			Lowest Observed Adverse Effect Level			
Supplemental LOAEL		mg/kg-d			Supplemental Data			
HSDB Lowest Oral LD50		mg/kg						
CTDJPN Lowest Oral LD50		mg/kg						
RTECS Lowest Oral LD50		mg/kg						
Cancer Data								
EPA Lifetime Cancer Risk, 10 ⁻⁴	0.1	mg/L	1989					
RAISHE Slope Factor	0.026	(mg/kg-d) ⁻¹						

EPA; RAIS

Drinking Water Equivalent Level

Health Reference Level (HRL)² cancer 1 ug/L ¹ Bolded data indicate value was used in attribute scoring ² For the CCL process HRLs were calculated by converting the RfD or other dose to ug/L, assuming 2 L/day of water consumed by a 70 Kg adult, and a Relative Source Contribution of 20%. For carcinogens, the concentration at the 10 ⁻⁶ cancer risk was used.

1989

1999

2006

(mg/kg-d)⁻¹

Y/N

Y/N

mg/L

ug/L

С

3

Υ

1

210

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water	16,956	31	0.18	0.06	9.2	0.59	3.1	9.2	ug/L	
NCOD Round 2 finished water	24,127	51	0.21	0.2	18	0.5	1.55	18	ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water	4,309	4	0.09	0.011	0.0644	0.0275	0.0644	0.0644	ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States	2004					
TRI Release - surface water	36	lbs/yr	2	States	2004					
TRI Release - total	12,088	lbs/yr	7	States						
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (HRL/NCOD R1 90%)		Non-c	ancer: 67.7			Cancer: 0	.323			
Production	Amount Range	Units	Year							
	>1M - 10M	lbs/yr	1998							
CUSIUR Production Data	>1M - 10M	lbs/yr	2002							
Use	Chemical interme	diate (NTP)								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life	60	days	BST	PBT; BST = biodegrad	des sometimes/r	recalcitrant				
K _{OC} , Organic Carbon Partition Coefficient	93-399	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	2.66	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	2.70E-03	atm-m ³ /mol								
Water Solubility	1,100	mg/L								
% water PBT profiler	22									

Contaminant	1,1-Dichloroetha	ine]		Attribute	Scores		3-model Categorical Prediction
Substance Key:	2647				Potency	Severity	Prevalence Magnitude		L?
Contaminant ID (CASRN):	75343				4	8	7 7		HRL Ratio(s)
HEALTH EFFECTS DATA ¹									NC HRL/NCOD R1 90%: 250 CAR HRL/NCOD R1 90%: 1.1
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose		
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose		
EPA HA RfD		mg/kg-d					Reference Dose		
RAISHE RfD	0.2	mg/kg-d	2001	Decreased body weig	ght gain		Reference Dose; basis NOAEL 71	I4 mg/kg-d, U	F = 3,000; Muralidhara, et al, 2001.
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Level		
JMPR, maximum ADI		mg/kg-d					Acceptable Daily Intake		
CEDIADI, ADI		mg/kg-d					Acceptable Daily Intake		
ITER, TDI							Tolerable Daily Intake		
Supplemental RfD-like value							Supplemental Data		
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Effect Level		
Supplemental NOEL		mg/kg-d					Supplemental Data		
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observed Adverse Effect	Level	
Supplemental LOAEL		mg/kg-d					Supplemental Data		
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)	0.0057	(mg/kg-d) ⁻¹							
EPA Carcinogen classification	С		1990						
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?	Y	Y/N					ОЕННА		
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Teratogen			UMD		
EPAHA-DWEL							Drinking Water Equivalent Level		
Health Reference Level (HRL) ²	1,400	ug/L							
Health Reference Level (HRL) ² cancer	6.14	ug/L							
¹ Bolded data indicate value was used in attribute so	coring								
² For the CCL process HRLs were calculated by cor	nverting the RfD or o	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70) Kg adult, and a Rel	ative Source Contrib	ution of 20%. For carcinogens, the conce	entration at the	10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water	20,483	233	1.14	0.01	500	1.2	5.6	27	ug/L	
NCOD Round 2 finished water	24,808	184	0.74	0.0013	159	1	3.8	25	ug/L	
NIRS finished water									ug/L	
Ambient Water Occurrence Data										
NAWQA ambient water	4,350	135	3.103	0.008	39	0.05	0.316	5.6	ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	63	lbs/yr	3	States	2004					
TRI Release - total	17,368	lbs/yr	5	States	2004					
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (HRL/NCOD R1 90%)		Non-c	ancer: 250			Cancer:	1.1			
Production	Amount Range	Units	Year							
CUSIUR Production Data	>1M - 10M	lbs/yr	1998							
	>500K - 1M	lbs/yr	2002							
Use	Solvent (NTP)									
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life	38	days	BSA	PBT; BSA = Biodegra	des Slowly with	Acclimation				
K _{OC} , Organic Carbon Partition Coefficient	30	L/kg								
log K _{ow} , Octanol Water Partition Coeff.	1.79	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	5.62E-03	atm-m3/mol								
Water Solubility	5040	mg/L								
% water PBT profiler	46									

Contaminant:	1,2,3-Trichloropropane	1,2,3-Trichloropropane Attribute Scores						
Substance Key:	3817		Potency	Severity	Prevalence	Magnitude		12
Contaminant ID (CASRN):	96184		7	8	3	6		Lſ
								HRL Ratio(s)
								NC HRL/NCOD R2 90%: 2.1
HEALTH EFFECTS DATA ¹								CAR HRL/NCOD R2 90%: 0.00025

HEALTH EFFECTS DATA ¹						CAR HRL/NCOD R2 90%: 0.00025			
Non-cancer data	Value	Units	Date	Critical Effect		Notes			
EPA OPP RfD		mg/kg-d			Reference Dose				
EPA IRIS (ITER) RfD	0.006	mg/kg-d	1987	Alterations in clinical chemistry & reduction in RBC mass	Reference Dose; NTP, 1983 ; rats; UF = 1,000; Ba	sis NOAEL = 8 mg/kg-d			
EPA HA RfD	0.006	mg/kg-d	2006		Reference Dose; F' 89				
RAISHE RfD	0.006	mg/kg-d			Reference Dose				
ATSDR (ITER), MRL	0.06	mg/kg-d	1992	Hepatic	Minimal Risk Level; Int-MRL; UF = 100				
JMPR, maximum ADI		mg/kg-d			Acceptable Daily Intake				
CEDIADI, ADI		mg/kg-d			Acceptable Daily Intake				
ITER, TDI					Tolerable Daily Intake				
Supplemental RfD-like value					Supplemental Data				
CTDJPN Highest Chronic NOEL		mg/kg-d			No Observed Effect Level				
Supplemental NOEL	5.71	mg/kg-d	1987		Supplemental Data; ITER NOAEL				
RTECS Lowest Oral Chronic LOAEL	22.9	mg/kg-d		Kidney, Ureter, Bladder - changes in bladder weight, Blood - changes in serum composition (e.g. TP, bilirubin, cholesterol), Biochemical - Enzyme inhibition, induction, or change in blood or tissue levels - other esterases		ral study in rats; NTPTR National Toxicology Program NC 27709) No.206- Volume(issue)/page/year NTP-			
Supplemental LOAEL		mg/kg-d			Supplemental Data				
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor	7	(mg/kg-d) ⁻¹			HEAST				
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification									
Other Supporting Data	•	•							
Is contaminant on list of carcinogens?	Y	Y/N			CACART, RAIS				
Is the contaminant on a list of reproductive toxins?		Y/N							
EPAHA-DWEL	0.2	mg/L	2006		Drinking Water Equivalent Level				
Health Reference Level (HRL) ²	42	ug/L							
Health Reference Level (HRL) ² cancer	0.005	ug/L							
¹ Bolded data indicate value was used in attribute se	coring		-	•	-				
² For the CCL process HRLs were calculated by cor	overting the RfD or o	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70 Kg adult, and a Relative Source Contribut	ion of 20%. For carcinogens, the concentration at the 10	-6 cancer risk was used.			

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water	17,392	44	0.25	0.1	112	0.92	6	112	ug/L	
NCOD Round 2 finished water	24,088	19	0.079	0.03	3,000	0.5	20	3,000	ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water	4,309	43	1.0	0.05	2.92	0.4	0.97	2.92	ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	282	lbs/yr	1	States	2004					
TRI Release - total	9,053	lbs/yr	2	States	2004					
Supplemental Water Data										Notes
Nominated data from NJDEP	NJ study: Detecte water systems be	ed in excess of he tween 1999 and	alth-based drinkin 2004 in NJ SOC V	g water guidance value /aiver Program samplir	e in 30 of 2,640 p na.	private wells and 11 of	approximately	260 community		
					0					
HRL Ratios (HRL/NCOD R2 90%)		Non-o	cancer: 2.1			Cancer: 0.	00025			
Production	Amount Range	Units	Year							
	>10M - 50M	lbs/yr	1998							
CUSIUR Production Data	>1M - 10M	lbs/yr	2002							
Use	Paint ingredient (I	NTP)								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life	38	days	BSA	PBT; BSA = biodegrae	des slowly with a	acclimation				
K _{OC} , Organic Carbon Partition Coefficient	77-95	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	2.27	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	3.43E-04	atm-m ³ /mol								
Water Solubility	1,750	mg/L								
% water PBT profiler	25									

	1,3-Butadiene]		Attribute			3-model Categorical Prediction
	4578 106990			-	Potency 7	Severity 8	Prevalence 10	Magnitude	L
Contaminant ID (CASRN):	106990			1	1	8	10	9	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									No Water Data
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose		
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose		
EPA HA RfD		mg/kg-d					Reference Dose		
RAISHE RfD		mg/kg-d					Reference Dose		
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Lev	vel	
JMPR, maximum ADI		mg/kg-d					Acceptable Daily	Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Daily	Intake	
ITER, TDI							Tolerable Daily I	ntake	
Supplemental RfD-like value							Supplemental Da	ata	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Eff	ect Level	
Supplemental NOEL		mg/kg-d					Supplemental Da	ata	
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observe	d Adverse Effect Level	
Supplemental LOAEL		mg/kg-d					Supplemental Da	ata	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)	3.4	(mg/kg-d) ⁻¹							
EPA Carcinogen classification	B2								
IARC Carcinogen Classification	2A		1999				Vol. 71; 1999		
Other Supporting Data									
Is contaminant on list of carcinogens?	Y	Y/N					EPA, IARC, CAO	CART, OEHHA	
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Teratogen List			UMD		
EPAHA-DWEL							Drinking Water E	Equivalent Level	
Health Reference Level (HRL) ²		ug/L							
Health Reference Level (HRL) ² cancer	0.0103	ug/L							
¹ Bolded data indicate value was used in attribute so	coring								
² For the CCL process HRLs were calculated by con	verting the RfD or ot	her dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	lative Source Contrib	ution of 20%. For car	cinogens, the concentration a	at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year			•	Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	493	lbs/yr	8	States	2004					
TRI Release - total	1,964,956	lbs/yr	34	States	2004					
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (No water data)		Nor	n-cancer:			Cancer	:			
Production	Amount Range	Units	Year							
CUSIUR Production Data	> 1B	lbs/yr	1998							
	> 1B	lbs/yr	2002							
Use	Rubber chemical	(NTP)								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life	7-28	days	BFA	BFA = biodegrades fa	st with acclimation	on				
K _{oc} , Organic Carbon Partition Coefficient	288	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	1.99	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	7.40E-02	atm-m ³ /mol								
Water Solubility	735	mg/L								
% water PBT profiler										

Contaminant:	1,3-Dinitrobenze	ne]		Attribut	e Scores			3-model Categorical Prediction		
Substance Key: Contaminant ID (CASRN):	4045 99650				Potency 7	Severity 3	Prevalence 1	Magnitude 8		NL?		
Contaminant ID (CASKN):	33030]	1	3		0		HRL Ratio(s)		
HEALTH EFFECTS DATA ¹										No water data		
Non-cancer data	Value	Units	Date		Critical Effect					Notes		
EPA OPP RfD		mg/kg-d					Reference Dos	e				
EPA IRIS (ITER) RfD	0.0001	mg/kg-d	1988	Increased spleen w	eight		Reference Dos	Reference Dose; Cody et al., 1981; Rats; UF = 3,000; Basis NOAEL = 0.4 mg/kg-d				
EPA HA RfD	0.0001	mg/kg-d	2006				Reference Dos	9				
RAISHE RfD	0.0001	mg/kg-d					Reference Dos	e; IRIS				
ATSDR (ITER), MRL	0.0005	mg/kg-d	1995	Hemato.			Minimal Risk Le	evel; Int-MRL; UF = 1,00	00			
JMPR, maximum ADI		mg/kg-d					Acceptable Dai	y Intake				
CEDIADI, ADI		mg/kg-d					Acceptable Dai	y Intake				
ITER, TDI							Tolerable Daily	Intake				
Supplemental RfD-like value							Supplemental [Data				
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	ffect Level				
Supplemental NOEL		mg/kg-d					Supplemental [
RTECS Lowest Oral Chronic LOAEL	1.73	mg/kg-d		Endocrine - changes methemoglobinemia-						ral study in rats; TOXID9 Toxicologist. (Soc. of , OH 44311) V.1- 1981- Volume(issue)/page/year		
Supplemental LOAEL		mg/kg-d					Supplemental [Data				
HSDB Lowest Oral LD50		mg/kg										
CTDJPN Lowest Oral LD50		mg/kg										
RTECS Lowest Oral LD50		mg/kg										
Cancer Data	·											
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L										
RAISHE Slope Factor		(mg/kg-d) ⁻¹										
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹										
EPA Carcinogen classification	D		1991				Cancer classific identified for po		reening, b	ut no related quantitative cancer risk data were		
IARC Carcinogen Classification												
Other Supporting Data												
Is contaminant on list of carcinogens?		Y/N										
Is the contaminant on a list of reproductive toxins?	Y	Y/N		male			CACART					
EPAHA-DWEL	0.005	mg/L	2006				Drinking Water	Equivalent Level				
Health Reference Level (HRL) ²	0.7	ug/L										
Health Reference Level (HRL) ² cancer		ug/L										
¹ Bolded data indicate value was used in attribute s	coring	·		·			· ·					
² For the CCL process HRLs were calculated by co	nverting the RfD or o	ther dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	elative Source Contri	bution of 20%. For ca	rcinogens, the concentration	on at the 10) ⁻⁶ cancer risk was used.		

	// D14/0_/01/				Maximum		000/ 5			
	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data	1			L						
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	2	lbs/yr	1	States	2004					
TRI Release - total	528,962	lbs/yr	1	States	2004					
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (No water data)		Noi	n-cancer:			Cancer	:			
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
		lbs/yr	2002							
Use	Industrial chemica	al (HSDB)								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life						eclimation				
112/	38	days	BSA	PBT; BSA = biodegrad	des slowly with a	accimation				
K _{OC} , Organic Carbon Partition Coefficient	38 150	days L/kg	BSA	PBT; BSA = biodegrad	des slowly with a					
		-	BSA	PBT; BSA = biodegra	des slowly with a					
K _{oc} , Organic Carbon Partition Coefficient	150	L/kg	BSA	PBT; BSA = biodegra	des slowly with a					
K _{oc} , Organic Carbon Partition Coefficient log K _{ow} , Octanol Water Partition Coeff.	150	L/kg unitless	BSA	PBT; BSA = biodegra	des slowly with a					
K _{OC} , Organic Carbon Partition Coefficient log K _{OW} , Octanol Water Partition Coeff. Kd, Distribution coefficient	150 1.49	L/kg unitless L/kg	BSA	PBT; BSA = biodegra	des slowly with a					

Contaminant:	1,4-Dioxane			1		Attribute	Scores		3-model Categorical Prediction
Substance Key:	5539				Potency	Severity		Magnitude	L
Contaminant ID (CASRN):	123911]	5	8	9	8	_
HEALTH EFFECTS DATA ¹									HRL Ratio(s) NC HRL/CAL DHS 90%: 92.1 CAR HRL/CAL DHS 90%: 0.395
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose		
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose		
EPA HA RfD		mg/kg-d					Reference Dose		
RAISHE RfD		mg/kg-d					Reference Dose		
ATSDR (ITER), MRL	0.1	mg/kg-d					Minimal Risk Level	; ATSDR MRL-int = 0.6 r	ng/kg-d
JMPR, maximum ADI		mg/kg-d					Acceptable Daily In	take	
CEDIADI, ADI		mg/kg-d					Acceptable Daily In	take	
ITER, TDI							Tolerable Daily Inta	ike	
Supplemental RfD-like value							Supplemental Data	I	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Effec	t Level	
Supplemental NOEL		mg/kg-d					Supplemental Data	I	
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observed A	Adverse Effect Level	
Supplemental LOAEL		mg/kg-d					Supplemental Data	l	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴	0.3	mg/L	1987						
RAISHE Slope Factor	0.011	(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)	0.027	(mg/kg-d) ⁻¹							
EPA Carcinogen classification	B2		1987						
IARC Carcinogen Classification	2A	1999							
Other Supporting Data		-							
Is contaminant on list of carcinogens?	Y	Y/N					CACART; EPA; IAF	RC; OEHHA; RAIS	
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Teratogen			UMD		
EPAHA-DWEL							Drinking Water Equ	uivalent Level	
Health Reference Level (HRL) ²	700	ug/L							
Health Reference Level (HRL) ² cancer	3	ug/L							
¹ Bolded data indicate value was used in attribute so	coring								
² For the CCL process HRLs were calculated by cor	nverting the RfD or o	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70) Kg adult, and a Rel	ative Source Contribu	ution of 20%. For carcine	ogens, the concentration at	the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	89,521	lbs/yr	7	States	2004					
TRI Release - total	821,067	lbs/yr	22	States	2004					
Supplemental water data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	Units		Notes
CAL DHS	869	89	10.2	0.001	46.2	2.1	7.6	ug/L	Drinking water n http://www.cdph ts.aspx	nonitoring; ca.gov/certlic/drinkingwater/Pages/Chemicalcontaminan
HRL Ratios (HRL/CAL DHS 90%)		Non-c	cancer: 92.1			Cancer: 0	.395			
Production	Amount Range	Units	Year							
CUSIUR Production Data	>1M - 10M	lbs/yr	1998							
	>1M - 10M	lbs/yr	2002							
Use	Solvent (NTP); so	olvent stabilizer								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BS	BS = biodegrades slo	wly					
K _{oc} , Organic Carbon Partition Coefficient	1	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	-0.27	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	4.80E-06	atm-m ³ /mol								
Water Solubility	1,000,000	mg/L								
•										

	17 alpha-Estradi	ol		1	1	Attribute	Scores		3-model Categorical Prediction
	81747				Potency	Severity	Prevalence	Magnitude	L?
Contaminant ID (CASRN):	57910			J	7	6	9	3	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									NC HRL/Kolpin MAX: 4.7
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose		
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose		
EPA HA RfD		mg/kg-d					Reference Dose		
RAISHE RfD		mg/kg-d					Reference Dose		
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Lev	rel	
JECFA ADI	0.00005	mg/kg-d	1999	Estrogenic hormona women	al response in po	ost-menopausal	Acceptable Dail	y Intake for E2	
CEDIADI, ADI		mg/kg-d					Acceptable Daily	Intake	
TER, TDI							Tolerable Daily Ir	ntake	
Supplemental RfD-like value							Supplemental Da	ata	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Eff	ect Level	
Supplemental NOEL		mg/kg-d					Supplemental Da	ata	
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observed	d Adverse Effect Level	
Supplemental LOAEL		mg/kg-d					Supplemental Da	ata	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
ARC Carcinogen Classification									
Other Supporting Data									
s contaminant on list of carcinogens?		Y/N							
s the contaminant on a list of reproductive toxins?		Y/N							
EPAHA-DWEL		mg/L					Drinking Water E	quivalent Level	
Health Reference Level (HRL) ²	0.35	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
Bolded data indicate value was used in attribute so	coring			·			·		
² For the CCL process HRLs were calculated by con	verting the RfD or ot	ther dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	lative Source Contribu	ution of 20%. For card	cinogens, the concentration a	t the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	Units for Mag data		Notes
Kolpin, et al., 2002	70		5.7		0.074	0.03		ug/L		ce Water Reconnaissance t al., 2002. Env. Sci. & Technol., 36(6), pp. 1202-1211.
HRL Ratios (HRL/Kolpin MAX)			cancer: 4.7			Cancer	r:			
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
		lbs/yr	2002							
Use	Pharmaceutical,	hormone	Degradation	[
Environmental Fate Parameters	Value	Units	Code					Notes		
T _{1/2} , Half life	38	days	BSA	BSA = Biodegrades s	lowly with acclim	ation				
K _{OC} , Organic Carbon Partition Coefficient		L/kg								
log K _{OW} , Octanol Water Partition Coeff.	3.94	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant		atm-m ³ /mol								
Water Solubility	3.9	mg/L								
% water PBT profiler	11									

Contaminant	1-Butanol			1		Attribute	Scores		3-model Categorical Prediction				
Substance Key:	2563				Potency	Severity	Prevalence	Magnitude	L?-L				
Contaminant ID (CASRN):	71363				4	5	10	10	HRL Ratio(s)				
HEALTH EFFECTS DATA ¹									No water data				
Non-cancer data	Value	Units	Date		Critical Effect				Notes				
EPA OPP RfD		mg/kg-d					Reference Dose	Reference Dose					
EPA IRIS (ITER) RfD	0.1	mg/kg-d	1987	Hypoactivity, ataxia	1		Reference Dos	e; U.S. EPA, 1986; Basis	NOAEL = 125 mg/kg-d, UF = 1,000; oral study in rats.				
EPA HA RfD		mg/kg-d					Reference Dose	2					
RAISHE RfD	0.1	mg/kg-d					Reference Dose	e; IRIS					
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	evel					
JMPR, maximum ADI		mg/kg-d					Acceptable Dai	y Intake					
CEDIADI, ADI		mg/kg-d					Acceptable Dai	y Intake					
ITER, TDI							Tolerable Daily	Intake					
Supplemental RfD-like value							Supplemental D	Data					
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	ffect Level					
Supplemental NOEL		mg/kg-d					Supplemental D	Data					
RTECS Lowest Oral Chronic LOAEL	0.2	mg/kg-d		Behavioral - somnole	ence (general dep	pressed activity)	Lowest Observe Science Pub. B 135,S122,2002	ed Adverse Effect Level; 3 .V., POB 211, 1000 AE An	0 day oral study in rats; TOLED5 Toxicology Letters. (Elsevier nsterdam, Netherlands) V.1- 1977- Volume(issue)/page/year				
Supplemental LOAEL		mg/kg-d					Supplemental D	Data					
HSDB Lowest Oral LD50		mg/kg											
CTDJPN Lowest Oral LD50		mg/kg											
RTECS Lowest Oral LD50		mg/kg											
Cancer Data													
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L											
RAISHE Slope Factor		(mg/kg-d) ⁻¹											
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹											
EPA Carcinogen classification	D		1991				Cancer classific identified for po		ening, but no related quantitative cancer risk data were				
IARC Carcinogen Classification													
Other Supporting Data	·												
Is contaminant on list of carcinogens?		Y/N											
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Teratogen			UMD						
EPAHA-DWEL							Drinking Water	Equivalent Level					
Health Reference Level (HRL) ²	700	ug/L											
Health Reference Level (HRL) ² cancer		ug/L											
¹ Bolded data indicate value was used in attribute s	coring												
² For the CCL process HRLs were calculated by co	nverting the RfD or o	ther dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70) Kg adult, and a R	elative Source Contrib	ution of 20%. For ca	rcinogens, the concentration	at the 10 ⁻⁶ cancer risk was used.				

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	22,011	lbs/yr	20	States	2004					
TRI Release - total	17,648,846	lbs/yr	44	States	2004					
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (No water data)		Nor	n-cancer:			Cancer	:			
Production	Amount Range	Units	Year							
CUSIUR Production Data	> 1B	lbs/yr	1998							
COSIDIC FIGUREION Data	> 1B	lbs/yr	2002							
Use	Paint solvent; che	mical intermedia	te; food additive (⊢	ISDB)						
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BF	BF = Biodegrades Fas	st					
K _{oc} , Organic Carbon Partition Coefficient	2.443	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	0.88	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	8.82E-06	atm-m3/mol						-		
Water Solubility	63200	mg/L								

Contaminant	2-Methoxyethan	ol]		Attribute	Scores		3-model Categorical Prediction
Substance Key:	4803			-	Potency	Severity 7	Prevalence		L
Contaminant ID (CASRN):	109864			1	6	/	9	7	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									No water data
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dos	se	
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dos	se	
EPA HA RfD		mg/kg-d					Reference Dos	se	
RAISHE RfD	0.003	mg/kg-d		Reproductive effect	ts		Reference Do	se; Unpublished NTP s	tudy - Gulati, et al, 1990.
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk L	evel	
JMPR, maximum ADI		mg/kg-d					Acceptable Da	ily Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Da	ily Intake	
ITER, TDI							Tolerable Dail	/ Intake	
Supplemental RfD-like value							Supplemental	Data	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed I	Effect Level	
Supplemental NOEL		mg/kg-d					Supplemental	Data	
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Obser	ved Adverse Effect Level	
Supplemental LOAEL		mg/kg-d					Supplemental	Data	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification									
Other Supporting Data	•			•					
Is contaminant on list of carcinogens?		Y/N							
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Teratogen / developr	nental, male		UMD / CACAF	T	
EPAHA-DWEL							Drinking Wate	Equivalent Level	
Health Reference Level (HRL) ²	21	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
¹ Bolded data indicate value was used in attribute so	coring						·		
² For the CCL process HRLs were calculated by cor	overting the RfD or of	ther dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70) Kg adult, and a Re	elative Source Contrib	oution of 20%. For c	arcinogens, the concentrati	on at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	14,390	lbs/yr	3	States	2004					
TRI Release - total	153,774	lbs/yr	16	States	2004					
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (No water data)		Nor	n-cancer:			Cancer				
Production	Amount Range	Units	Year							
CUSIUR Production Data	>10M - 50M	lbs/yr	1998							
	>10M - 50M	lbs/yr	2002							
Use	Consumer produc	cts; synthetic Cos	metics, Perfumes,	Fragrances, Hair Prep	arations, Skin L	otion (NTP)				
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BFA	BFA = Biodegrades F	ast with acclimat	tion				
K _{OC} , Organic Carbon Partition Coefficient	1	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	-0.77	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	3.30E-07	atm-m3/mol								
Water Solubility	1000000	mg/L								
	1									

Contaminant:	2-Propen-1-ol]		Attribute	Scores		3-model Categorical Prediction
Substance Key:	4596			_	Potency	Severity	Prevalence		L?-L
Contaminant ID (CASRN):	107186				5	6	8	8	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									No water data
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Do	se	
EPA IRIS (ITER) RfD	0.005	mg/kg-d	1987	Impaired renal func spleen & kidney we		relative liver,	Reference Do	ose; Carpanini et al., 19	78; Rat; UF = 1,000; Basis NOAEL = 4.8 mg/kg-d
EPA HA RfD		mg/kg-d					Reference Do	se	
RAISHE RfD	0.005	mg/kg-d					Reference Do	se	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk L	evel	
JMPR, maximum ADI		mg/kg-d					Acceptable Da	aily Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Da	aily Intake	
ITER, TDI							Tolerable Dail	y Intake	
Supplemental RfD-like value							Supplemental	Data	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed	Effect Level	
Supplemental NOEL		mg/kg-d					Supplemental	Data	
RTECS Lowest Oral Chronic LOAEL	2.5	mg/kg-d		Liver - liver function t serum composition (Biochemical - Metabo not involving coagula	e.g. TP, bilirubin, c olism (Intermediar	cholesterol),	kislorod soder	gashie organicheskie soe	l; Rat; VCVGK "Vrednie chemichescie veshestva, galogen I edinenia". (Hazardous substances. Galogen and oxygen et al., Chimia, 1994. Volume(issue)/page/year -,121,1994
Supplemental LOAEL		mg/kg-d					Supplemental	Data	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50	52	mg/kg		Details of toxic effect value	ts not reported oth	er than lethal dose			nation Service. (Springfield, VA 22161) Formerly U.S. al Information. Volume(issue)/page/year OTS0571508
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?		Y/N							
Is the contaminant on a list of reproductive toxins?		Y/N							
EPAHA-DWEL							Drinking Wate	r Equivalent Level	
Health Reference Level (HRL) ²	35	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
¹ Bolded data indicate value was used in attribute so	coring								
² For the CCL process HRLs were calculated by cor	overting the RfD or o	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70) Kg adult, and a Re	lative Source Contribu	ition of 20%. For c	arcinogens, the concentrati	ion at the 10 ⁻⁶ cancer risk was used.

					Maximum					
	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	10,971	lbs/yr	4	States	2004					
TRI Release - total	604,872	lbs/yr	13	States	2004					
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (No water data)		Noi	n-cancer:			Cancer				
Production	Amount Range	Units	Year							
CUSIUR Production Data	>100M - 500M	lbs/yr	1998							
	>100M - 500M	lbs/yr	2002							
Use	Manufacture of fla	avorings, perfume	es; chemical interm	nediate (HSDB)						
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BF	BF = biodegrades fast	t					
K _{OC} , Organic Carbon Partition Coefficient	1.325	L/kg								
log K _{ow} , Octanol Water Partition Coeff.	0.17	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	5.00E-06	atm-m ³ /mol								
Water Solubility	1,000,000	mg/L								
% water PBT profiler										

Contaminant:	3-Hydroxycarbof	furan]	Attribute		3-model Categorical Prediction
Substance Key:	25541			4	Potency Severity	Prevalence Magnitude	L?
Contaminant ID (CASRN):	16655826]	7 7	2 7	HRL Ratio(s)
HEALTH EFFECTS DATA ¹							NC HRL/NCOD R2 90%: 0.191
Non-cancer data	Value	Units	Date		Critical Effect		Notes
EPA OPP RfD	0.00006	mg/kg-d			holinesterase in pups - The RfD fo ne toxicity of the metabolite	Reference Dose; Basis = BMDL ₁₀ 0.03	3 mg/kg-d; UF = 500.
EPA IRIS (ITER) RfD		mg/kg-d				Reference Dose	
EPA HA RfD		mg/kg-d				Reference Dose	
RAISHE RfD		mg/kg-d				Reference Dose	
ATSDR (ITER), MRL		mg/kg-d				Minimal Risk Level	
JMPR, maximum ADI		mg/kg-d				Acceptable Daily Intake	
CEDIADI, ADI		mg/kg-d				Acceptable Daily Intake	
ITER, TDI						Tolerable Daily Intake	
Supplemental RfD-like value						Supplemental Data	
CTDJPN Highest Chronic NOEL		mg/kg-d				No Observed Effect Level	
Supplemental NOEL		mg/kg-d				Supplemental Data	
RTECS Lowest Oral Chronic LOAEL		mg/kg-d				Lowest Observed Adverse Effect Level	
Supplemental LOAEL		mg/kg-d				Supplemental Data	
HSDB Lowest Oral LD50		mg/kg					
CTDJPN Lowest Oral LD50		mg/kg					
RTECS Lowest Oral LD50	7	mg/kg		Decreased body wt.		PCBPBS Pesticide Biochemistry and Pl 55802) V.1- 1971- Volume(issue)/pa	hysiology. (Academic Press, Inc., 1 E. First St., Duluth, MN ige/year 3,435,1973
Cancer Data							
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L					
RAISHE Slope Factor		(mg/kg-d) ⁻¹					
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹					
EPA Carcinogen classification							
IARC Carcinogen Classification							
Other Supporting Data							
Is contaminant on list of carcinogens?		Y/N					
Is the contaminant on a list of reproductive toxins?		Y/N					
EPAHA-DWEL						Drinking Water Equivalent Level	
Health Reference Level (HRL) ²	0.42	μg/L					
Health Reference Level (HRL) ² cancer		μg/L					
¹ Bolded data indicate value was used in attribute so	coring						
² For the CCL process HRLs were calculated by cor	overting the RfD or ot	ther dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70	Kg adult, and a Relative Source Contrib	tion of 20%. For carcinogens, the concentration	on at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water	12,700	18	0.14	1	66.3	2.2	2.2	66.3	ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water	4,539	1	0.022	0.07	0.07	0.07	0.07	0.07	ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	95% of Detects	Units for Mag data		Notes
PPMP ambient water		0	0		0			ug/L		
PPMP finished water		1	0.4		0.062			ug/L		
HRL Ratios (HRL/NCOD R2 90%)		Non-ca	ancer: 0.191			Cancer	:			
Production	Amount Range	Units	Year						•	
		lbs/yr	1998							
CUSIUR Production Data		lbs/yr	2002							
Use	Pesticide degrada	ite		1						
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life	38	days	BSA	PBT; BSA = Biodegra	des Slowly with	Acclimation				
K _{oc} , Organic Carbon Partition Coefficient		L/kg								
log K _{ow} , Octanol Water Partition Coeff.	Ī	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	Ī	atm-m ³ /mol								
Water Solubility	Ī	mg/L								
% water PBT profiler	43									

CCL 3 Contaminant Information Sheet OCCURRENCE DATA¹

3-Hydroxycarbofuran

Contaminant:	4,4'-Methylenedi	aniline		1		Attribute	Scores		3-model Categorical Prediction
Substance Key:	4202				Potency	Severity	Prevalence	Magnitude	L
Contaminant ID (CASRN):	101779]	7	8	7	7	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									No water data
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose		
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose		
EPA HA RfD		mg/kg-d					Reference Dose		
RAISHE RfD		mg/kg-d					Reference Dose		
ATSDR (ITER), MRL	0.08	mg/kg-d	1998	Intense liver degener stroma	ative lesions, hy	perplasia of the	Minimal Risk Le	vel; MRL-Int; UF = 100	
JMPR, maximum ADI		mg/kg-d					Acceptable Daily	y Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Daily	y Intake	
ITER, TDI							Tolerable Daily I	Intake	
Supplemental RfD-like value							Supplemental D	ata	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Ef	fect Level	
Supplemental NOEL		mg/kg-d					Supplemental D	ata	
RTECS Lowest Oral Chronic LOAEL	4.34	mg/kg-d		Liver - fatty liver dege interstitial nephritis, E			Toxicology. (Jol		15 week oral study in dogs; JJATDK JAT, Journal of Applied ffins Lane, Chichester, W. Sussex PO19 1UD, UK) V.1- 1981-
Supplemental LOAEL		mg/kg-d					Supplemental D	ata	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor	0.25	(mg/kg-d) ⁻¹					Slope factor with	ndrawn	
OEHHA Slope Factor (oral)	1.6	(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification	2B		1987				Vol. 39, Suppl. 7	7; 1987	
Other Supporting Data									
Is contaminant on list of carcinogens?	Y	Y/N					IARC, CACART	, OEHHA, RAIS	
Is the contaminant on a list of reproductive toxins?		Y/N							
EPAHA-DWEL							Drinking Water I	Equivalent Level	
Health Reference Level (HRL) ²	560	ug/L							
Health Reference Level (HRL) ² cancer	0.022	ug/L							
¹ Bolded data indicate value was used in attribute s	scoring	-		•					
² For the CCL process HRLs were calculated by co	onverting the RfD or o	ther dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70	Kg adult, and a R	elative Source Contribu	ution of 20%. For car	cinogens, the concentration	at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes	
Finished Water Occurrence Data											
UCMR finished water									ug/L		
NCOD Round 1 finished water									ug/L		
NCOD Round 2 finished water									ug/L		
NIRS finished water											
Ambient Water Occurrence Data											
NAWQA ambient water									ug/L		
NREC ambient surface water									ug/L	National Reconnaissance	
NREC ambient ground water									ug/L	National Reconnaissance	
NREC ambient surface water									ug/L	National Aggregate	
NREC ambient ground water									ug/L	National Aggregate	
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes		
NCFAP Pesticide Application - total		lbs/yr		States							
TRI Release - surface water	96,446	lbs/yr	2	States	2004						
TRI Release - total	168,919	lbs/yr	10	States	2004						
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes	
HRL Ratios (No water data)		Nor	n-cancer:			Cancer					
Production	Amount Range	Units	Year								
CUSIUR Production Data	>1M - 10M	lbs/yr	1998								
	>1M - 10M	lbs/yr	2002								
Use	Chemical interme	diate; corrosion i		ent for polyurethanes (I	HSDB)						
Environmental Fate Parameters	Value	Units	Degradation Code					Notes			
T _{1/2} , Half life		length of time	BSA	PBT; BSA = biodegra	des slowly with a	acclimation					
K _{OC} , Organic Carbon Partition Coefficient	4,950	L/kg									
log K _{OW} , Octanol Water Partition Coeff.	1.59	unitless									
Kd, Distribution coefficient		L/kg									
HLC, Henry's Law Constant	1.58E-11	atm-m ³ /mol									
Water Solubility	1,000	mg/L									
% water PBT profiler											

Contaminant:	Acephate]		Attribut	e Scores		3-model Categorical Prediction		
Substance Key:	31325]	Potency	Severity	Prevalence	Magnitude	L?-L		
Contaminant ID (CASRN):	30560191]	6	5	10	7	HRL Ratio(s)		
HEALTH EFFECTS DATA ¹									NC HRL/SWC EEC: 1.17 CAR HRL/SWC EEC: 0.556		
Non-cancer data	Value	Units	Date		Critical Effect				Notes		
EPA OPP RfD	0.0012	mg/kg-d		Brain ChE inhibition	n		Reference Dos	e; Basis = NOAEL 0.12 m	g/kg-d; UF = 100.		
EPA IRIS (ITER) RfD	0.004	mg/kg-d	1989					e; Basis = LOEL females = . 0.0004 mg/kg-d	0.15 mg/kg-d; LOEL males = 0.12 mg/kg-d; Adjusted Basis		
EPA HA RfD		mg/kg-d					Reference Dos	e			
RAISHE RfD	0.004	mg/kg-d					Reference Dos	e			
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	evel			
JMPR, maximum ADI	0.03	mg/kg-d	1990				Acceptable Dai	ly Intake			
CEDIADI, ADI		mg/kg-d					Acceptable Dai	y Intake			
ITER, TDI							Tolerable Daily	Intake			
Supplemental RfD-like value							Supplemental [Data			
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	ffect Level			
Supplemental NOEL		mg/kg-d					Supplemental [Data			
RTECS Lowest Oral Chronic LOAEL	10	mg/kg-d		Brain and Coverings Autonomic Nervous S Biochemical - Metabo (including renal excre	System - sympath olism (Intermedia	nomimetic,		Lowest Observed Adverse Effect Level; ENVRAL Environmental Research. (Academic Press, Inc., 1 E. First St., Duluth, MN 55802) V.1- 1967- Volume(issue)/page/year 43,342,1987			
Supplemental LOAEL		mg/kg-d					Supplemental [Data			
HSDB Lowest Oral LD50		mg/kg									
CTDJPN Lowest Oral LD50		mg/kg									
RTECS Lowest Oral LD50		mg/kg									
Cancer Data											
EPA Lifetime Cancer Risk, 10 ⁻⁴	0.4	mg/L									
RAISHE Slope Factor	0.0087	(mg/kg-d) ⁻¹									
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹									
EPA Carcinogen classification	С		1988	Liver							
IARC Carcinogen Classification											
Other Supporting Data											
Is contaminant on list of carcinogens?	Y	Y/N					EPA; RAIS				
Is the contaminant on a list of reproductive toxins?		Y/N									
EPAHA-DWEL							Drinking Water	Equivalent Level			
Health Reference Level (HRL) ²	8.4	ug/L									
Health Reference Level (HRL) ² cancer	4	ug/L									
¹ Bolded data indicate value was used in attribute s	scoring										
² For the CCL process HRLs were calculated by co	nverting the RfD or o	other dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70) Kg adult, and a Re	elative Source Contril	bution of 20%. For ca	rcinogens, the concentration a	at the 10 ⁻⁶ cancer risk was used.		

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year					
NCFAP Pesticide Application - total	2,462,354	lbs/yr	35	States	1997					
TRI Release - surface water	0	lbs/yr	0	States	2004					
TRI Release - total	20,751	lbs/yr	5	States	2004					
Supplemental Water Data										
OPP Estimated Environmental Concentration		Surface water ch	nronic: 7.2 ug/L			Ground water chronic	c: 0.02 ug/L			
HRL Ratios (HRL/SWC EEC)		Non-c	ancer: 1.17		Cancer: 0.556					
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
COSION FIDULLION Data		lbs/yr	2002							
Use	Insecticide (HSDE	3)								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BF	BF = biodegrades fas	t					
K _{OC} , Organic Carbon Partition Coefficient	21.8	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	-0.85	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	5.02E-13	unitless								
Water Solubility	818,000	mg/L								
% water PBT profiler										

Contaminant	Acetaldehyde]		Attribute				3-model Categorical Prediction
Substance Key:	2622 75070				Potency	Severity	Prevalence	Magnitude		L?
Contaminant ID (CASRN):	75070]	5	3	10	8		HRL Ratio(s)
HEALTH EFFECTS DATA ¹										NC HRL/DBP ICR MED: 3.15
Non-cancer data	Value	Units	Date		Critical Effect					Notes
EPA OPP RfD		mg/kg-d					Reference Dose			
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose			
EPA HA RfD		mg/kg-d					Reference Dose			
RAISHE RfD		mg/kg-d					Reference Dose			
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Lev	el		
JMPR, maximum ADI		mg/kg-d					Acceptable Daily	Intake		
CEDIADI, ADI		mg/kg-d					Acceptable Daily	Intake		
ITER, TDI		mg/kg-d					Tolerable Daily Ir	ntake		
Supplemental RfD-like value		mg/kg-d					Supplemental Da	ita		
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Effe	ect Level		
Supplemental NOEL		mg/kg-d					Supplemental Da	ita		
RTECS Lowest Oral Chronic LOAEL	10	mg/kg-d		Behavioral - change	es in motor activ	vity (specific assay)	VA 22161) Form		house for S	National Technical Information Service. (Springfield, icientific & Technical Information. Juinea pig study
Supplemental LOAEL		mg/kg-d					Supplemental Da	ita		
HSDB Lowest Oral LD50		mg/kg								
CTDJPN Lowest Oral LD50		mg/kg								
RTECS Lowest Oral LD50		mg/kg								
Cancer Data										
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L								
RAISHE Slope Factor		(mg/kg-d) ⁻¹								
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹								
EPA Slope Factor		(mg/kg-d) ⁻¹								
EPA Carcinogen classification	B2		1988							
IARC Carcinogen Classification	2B		1999					Vol. 71; Cancer cla were identified for p		were used for screening, but no related quantitative ing.
Other Supporting Data										
Is contaminant on list of carcinogens?	Y	Y/N					IARC, EPA, CAC	ART		
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Teratogen list			UMD			
EPAHA-DWEL							Drinking Water E	quivalent Level		
Health Reference Level (HRL) ²	23.3	ug/L								
Health Reference Level (HRL) ² cancer		ug/L								
¹ Bolded data indicate value was used in attribute s	coring	•I		·			·			
² For the CCL process HRLs were calculated by co	nverting the RfD or o	other dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	elative Source Contribu	ution of 20%. For carc	inogens, the concent	tration at the 1	10 ⁻⁶ cancer risk was used.

OCCURRENCE DATA	1	1				1	1	1	1			
	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes		
Finished Water Occurrence Data												
UCMR finished water									ug/L			
NCOD Round 1 finished water									ug/L			
NCOD Round 2 finished water									ug/L			
NIRS finished water												
	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	Mean value of Detects	Units for Mag data		Notes		
DBP ICR	236	27	11.44		18.3	7.4	8.04	ug/L				
Ambient Water Occurrence Data												
NAWQA ambient water									ug/L			
NREC ambient surface water									ug/L	National Reconnaissance		
NREC ambient ground water									ug/L	National Reconnaissance		
	# Samples	# with Detects	% Samples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Unite for Mag	Notes		
NREC ambient surface water					2010010				ug/L	National Aggregate		
NREC ambient ground water									ug/L	National Aggregate		
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes			
NCFAP Pesticide Application - total		lbs/yr		States	1997							
TRI Release - surface water	370,815	lbs/yr	31	States	2004							
TRI Release - total	14,683,890	lbs/yr	38	States	2004							
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	Units for Mag data		Notes		
CAL DHS	8	3	37.5	1	24	2	4	ug/L	Drinking water n http://www.cdph ts.aspx	nonitoring; .ca.gov/certlic/drinkingwater/Pages/Chemicalcontaminar		
HRL Ratios (HRL/DBP ICR MED)		Non-c	ancer: 3.15			Cance	r:					
Production	Amount Range	Units	Year									
	>100M - 500M	lbs/yr	1998									
CUSIUR Production Data	>100M - 500M	lbs/yr	2002									
Use	Pesticide; food ad	lditive; chemical i	ntermediate (HSD	В)		I						
Environmental Fate Parameters	Value	Units	Degradation Code					Notes				
T _{1/2} , Half life		length of time		BF = Biodegrades fas	t (BIODEG)							
K _{OC} , Organic Carbon Partition Coefficient	1.498	L/kg										
log K _{OW} , Octanol Water Partition Coeff.	-0.34	unitless										
Kd, Distribution coefficient		L/kg										
HLC, Henry's Law Constant	6.68E-05	atm-m ³ /mol										
Water Solubility	1,000,000	mg/L										
% water PBT profiler												

Acetaldehyde CCL 3 Contaminant Information Sheet

OCCURRENCE DATA¹

	Acetamide]		Attribute	Scores		3-model Categorical Prediction
	2411			-	Potency	Severity	Prevalence 7		L
Contaminant ID (CASRN):	60355			1	5	8	1	9	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									No water data
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose	e	
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose	e	
EPA HA RfD		mg/kg-d					Reference Dose	e	
RAISHE RfD		mg/kg-d					Reference Dose	e	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	evel	
JMPR, maximum ADI		mg/kg-d					Acceptable Dai	ly Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Dail	ly Intake	
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value							Supplemental D	Data	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	ffect Level	
Supplemental NOEL		mg/kg-d					Supplemental D	Data	
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observe	ed Adverse Effect Level	
Supplemental LOAEL		mg/kg-d					Supplemental D	Data	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)	0.07	(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification	2B								
Other Supporting Data									
Is contaminant on list of carcinogens?	Y	Y/N					CACART; OEH	HA; IARC	
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Teratogen			UMD		
EPAHA-DWEL							Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²		ug/L							
Health Reference Level (HRL) ² cancer	0.5	ug/L							
¹ Bolded data indicate value was used in attribute so	coring	· · ·					•		
² For the CCL process HRLs were calculated by cor	overting the RfD or of	ther dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	lative Source Contrib	ution of 20%. For ca	rcinogens, the concentration a	at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes	
Finished Water Occurrence Data											
UCMR finished water									ug/L		
NCOD Round 1 finished water									ug/L		
NCOD Round 2 finished water									ug/L		
NIRS finished water											
Ambient Water Occurrence Data	•							•			
NAWQA ambient water									ug/L		
NREC ambient surface water									ug/L	National Reconnaissance	
NREC ambient ground water									ug/L	National Reconnaissance	
NREC ambient surface water									ug/L	National Aggregate	
NREC ambient ground water									ug/L	National Aggregate	
Application/Release	Amount Released	Units	Number of States	Units	Year	Notes					
NCFAP Pesticide Application - total		lbs/yr		States							
TRI Release - surface water	2,754	lbs/yr	3	States	2004						
TRI Release - total	1,202,667	lbs/yr	7	States	2004						
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes	
HRL Ratios (No water data)		Nor	n-cancer:			Cancer	:				
Production	Amount Range	Units	Year								
CUSIUR Production Data	10K - 500K	lbs/yr	1998								
	10K - 500K	lbs/yr	2002								
Use	Solvent; solubilize	er; plasticizer; sta	bilizer (HSDB)								
Environmental Fate Parameters	Value	Units	Degradation code					Notes			
T _{1/2} , Half life		length of time	BF	BF = biodegrades fast	t						
K _{OC} , Organic Carbon Partition Coefficient	5	L/kg									
log K _{OW} , Octanol Water Partition Coeff.	-1.26	unitless									
Kd, Distribution coefficient		L/kg									
HLC, Henry's Law Constant	1.21E-08	atm-m ³ /mol									
Water Solubility	2,250,000	mg/L									
water Solubility		-									

Acetochlor CCL 3 Contaminant Information Sheet

Contaminant:	Acetochlor					ute Scores		3-model Categorical Prediction		
Substance Key:	32393			Potency	Severity	Prevalence	Magnitude	NL		
Contaminant ID (CASRN):	34256821			5	7	1	1			
HEALTH EFFECTS DATA ¹								HRL Ratio(s) NC HRL/NAWQ 90%: 179		
Non-cancer data	Value	Units	Date	Critical Effec	t			Notes		
EPA OPP RfD		mg/kg-d				Reference Dose				
EPA IRIS (ITER) RfD	0.02	mg/kg-d	1993	Salivation, increased ALT & ornithine carbamyl transferase; increases in triglyceride & decreased blood glucose levels; histopathological changes in kidneys & testes		Reference Dose; Basis NOAEL 2 mg/kg-d; UF = 100. ICI, Inc., 1988a				
EPA HA RfD		mg/kg-d				Reference Dose				
RAISHE RfD	0.02	mg/kg-d				Reference Dose				
ATSDR (ITER), MRL		mg/kg-d				Minimal Risk Level				
IMPR, maximum ADI		mg/kg-d				Acceptable Daily Intake				
CEDIADI, ADI		mg/kg-d				Acceptable Daily Intake				
TER, TDI						Tolerable Daily Intake				
Supplemental RfD-like value						Supplemental Data				
CTDJPN Highest Chronic? NOEL		mg/kg-d				No Observed Effect Lev	el			
Supplemental NOEL		mg/kg-d				Supplemental Data				
RTECS Lowest Oral Chronic LOAEL	5.45	mg/kg-d		Enzyme inhibition, induction, or change in blood or tissue		Hygiene. (Durzhavno Iz	Lowest Observed Adverse Effect Level; 42-day study in rat; PRKHDK Problemi na Khigienata. Problems in Hygiene. (Durzhavno Izdatel'stvo Meditsina i Fizkultura, Pl. Slaveikov 11, Sofia, Bulgaria) V.1- 1975-Volume(issue)/page/year 15,96,1990			
Supplemental LOAEL		mg/kg-d				Supplemental Data				
HSDB Lowest Oral LD50		mg/kg								
CTDJPN Lowest Oral LD50		mg/kg								
RTECS Lowest Oral LD50		mg/kg								
Cancer Data										
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L								
RAISHE Slope Factor		(mg/kg-d) ⁻¹								
DEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹								
EPA Carcinogen classification										
ARC Carcinogen Classification										
Other Supporting Data										
s contaminant on list of carcinogens?	Y	Y/N				CACART				
s the contaminant on a list of reproductive oxins?		Y/N								
EPAHA-DWEL						Drinking Water Equivale	nt Level			
Health Reference Level (HRL) ²	140	ug/L								
Health Reference Level (HRL) ² cancer		ug/L	-							

¹ Bolded data indicate value was used in attribute scoring

² For the CCL process HRLs were calculated by converting the RfD or other dose to ug/L, assuming 2 L/day of water consumed by a 70 Kg adult, and a Relative Source Contribution of 20%. For carcinogens, the concentration at the 10 ⁻⁰ cancer risk was used.

Minimum value of Units for Mag # PWSs/Sites % PWSs/Sites Maximum value Median value of Notes # with Detects 90% of Detects 99% of Detects sampled with detects Detects of Detects Detects data Finished Water Occurrence Data UCMR finished water 3,615 0 0 Not Detected Not Detected Not Detected Not Detected Not Detected ug/L NCOD Round 1 finished water ug/L NCOD Round 2 finished water ug/L NIRS finished water Ambient Water Occurrence Data NAWQA ambient water 5,529 278 5.02 0.0011 30.4 0.032 0.784 8.49 ug/L NREC ambient surface water ug/L National Reconnaissance NREC ambient ground water ug/L National Reconnaissance NREC ambient surface water National Aggregate ug/L NREC ambient ground water National Aggregate ug/L Amount Number of Application/Release Units Units Notes Year Released States NCFAP Pesticide Application - total 32,591,175 lbs/yr 35 States 1997 TRI Release - surface water lbs/yr States TRI Release - total lbs/yr States % # PWSs/Sites/Sam Minimum value of Maximum value Median value of PWSs/Sites/Sa # with Detects Supplemental Water Data 95% of Detects Units Notes ples with Detects of Detects Detects mples detects PPMP ambient water 0.334 0.002 Pesticide Pilot Montoring Program (USGS/EPA) 115 35.6 ug/L PPMP finished water 69 30.3 0.395 0.061 ug/L % # PWSs/Sites/Sam Minimum value of Maximum value Median value of PWSs/Sites/Sa # with Detects Notes 90% of Detects Units of Detects Detects ples with Detects mples detects Drinking water monitoring; http://www.cdph.ca.gov/certlic/ CAL DHS 1,872 0 0 ug/L drinkingwater/Pages/Chemicalcontaminants.aspx STORET 848 293 34.55 0.026 21 0.022 1.5 ug/L HRL Ratios (HRL/NAWQA 90%) Non-cancer: 179 Cancer: Production Amount Range Units Year 1998 lbs/yr CUSIUR Production Data lbs/yr 2002 Use Herbicide (HSDB) Degradation Notes **Environmental Fate Parameters** Units Value Code T_{1/2}, Half life BF 4.3 days BF = biodegrades fast (half-life is for soil) Koc, Organic Carbon Partition Coefficient 98.5-239 L/kg log Kow, Octanol Water Partition Coeff 3.03 unitless Kd, Distribution coefficient L/kg HLC, Henry's Law Constant 5.4E-11 atm-m3/mol Water Solubility 233 mg/L % water PBT profiler 12

Contaminant:	Acetochlor etha	nesulfonic acid	(ESA)]			e Scores		3-model Categorical Prediction
Substance Key:	79191				Potency	Severity	Prevalence	Magnitude	NL
Contaminant ID (CASRN):	187022113			<u>]</u>	5	3	1 Scores based on	1 narent	HRL Ratio(s)
HEALTH EFFECTS DATA ¹ - See Acetoch	lor Parent							parone	HRL/NAWQA 90%: 205 (NAWQA data for acetochlor parent)
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose		
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose		
EPA HA RfD		mg/kg-d					Reference Dose		
RAISHE RfD		mg/kg-d					Reference Dose		
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Leve	el	
IMPR, maximum ADI		mg/kg-d					Acceptable Daily	Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Daily	Intake	
TER, TDI							Tolerable Daily In	take	
Supplemental RfD-like value							Supplemental Dat	a	
CTDJPN Highest Chronic? NOEL		mg/kg-d					No Observed Effe	ect Level	
Supplemental NOEL	23	mg/kg-d		Reduced body weig sexes	ghts and body weig	ght gains in both	Supplemental Da	ata; EPA OPP NOAEL - FOF	R ACETOCHLOR ESA
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observed	Adverse Effect Level	
Supplemental LOAEL		mg/kg-d					Supplemental Dat	a	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
DEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
ARC Carcinogen Classification									
Other Supporting Data									
s contaminant on list of carcinogens?		Y/N							
s the contaminant on a list of reproductive oxins?		Y/N							
EPAHA-DWEL							Drinking Water Ed	quivalent Level	
Health Reference Level (HRL) ²	161	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
Bolded data indicate value was used in attribute so	coring								

² For the CCL process HRLs were calculated by converting the RfD or other dose to ug/L, assuming 2 L/day of water consumed by a 70 Kg adult, and a Relative Source Contribution of 20%. For carcinogens, the concentration at the 10⁻⁶ cancer risk was used.

	# PWSs/Sites		% PWSs/Sites	Minimum value of	Maximum value	Median value of			Units for Mag	
	sampled	# with Detects	with detects	Detects	of Detects	Detects	90% of Detects	99% of Detects	data	Notes
Finished Water Occurrence Data - FOR ACE	ETOCHLOR - PAR	RENT								
UCMR finished water	3,615	0	0	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data - FOR ACE	TOCHLOR - PAR	ENT								
NAWQA ambient water	5,529	278	5.020	0.0011	30.4	0.032	0.784	8.49	ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	•
NCFAP Pesticide Application - total	32,591,175	lbs/yr	35	States	1997	FOR ACETOCHLOR	R - PARENT			
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data - FOR ACETOCHLOR ESA	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	95% of Detects	Units		Notes
PDP finished water	377	5	1.3	0.02	0.02			ug/L	Pesticide Data I	Program (USDA); 2002
FOR ACETOCHLOR - PARENT	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	Units		Notes
CAL DHS	1,872	0	0					ug/L	Drinking water r http://www.cdph ts.aspx	nonitoring; ca.gov/certlic/drinkingwater/Pages/Chemicalcontaminan
STORET	848	293	34.55	0.026	21	0.022	1.5	ug/L		
HRL Ratios (HRL/NAWQA 90%)		Non-o	cancer: 205			Cano	er:		NAWQA data f	or acetochlor - parent
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
		lbs/yr	2002							
Use	Pesticide degrada	ate								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time								
K _{OC} , Organic Carbon Partition Coefficient		L/kg								
log K _{ow} , Octanol Water Partition Coeff.		unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant		atm-m ³ /mol								
Water Solubility		mg/L								
% water PBT profiler										

Contaminant:	Acetochlor oxa	nilic acid (OA)		1		Attribut	e Scores		3-model Categorical Prediction
Substance Key:	79193	· · ·]	Potency	Severity		agnitude	NL
Contaminant ID (CASRN):	194992444				5	3		1	
							Scores based on parent		HRL Ratio(s) HRL/NAWQA 90%: 205 (NAWQA data for acetochlor -
HEALTH EFFECTS DATA ¹ - See Acetoch	lor Parent								parent)
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose		
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose		
EPA HA RfD		mg/kg-d					Reference Dose		
RAISHE RfD		mg/kg-d					Reference Dose		
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Level		
JMPR, maximum ADI		mg/kg-d					Acceptable Daily Intake		
CEDIADI, ADI		mg/kg-d					Acceptable Daily Intake		
ITER, TDI							Tolerable Daily Intake		
Supplemental RfD-like value							Supplemental Data		
CTDJPN Highest Chronic? NOEL		mg/kg-d					No Observed Effect Leve	l	
Supplemental NOEL	23	mg/kg-d		Reduced body we sexes	ights and body we	eight gains in both	Supplemental Data; EP	A OPP NOAEL - FOR	ACETOCHLOR OA
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observed Advers	e Effect Level	
Supplemental LOAEL		mg/kg-d					Supplemental Data		
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?		Y/N							
Is the contaminant on a list of reproductive toxins?		Y/N							
EPAHA-DWEL							Drinking Water Equivaler	nt Level	
Health Reference Level (HRL) ²	161	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
¹ Bolded data indicate value was used in attribute s	coring								
² For the CCL process HRLs were calculated by con	nverting the RfD or o	other dose to ug/L, a	assuming 2 L/day of	water consumed by a	70 Kg adult, and a Re	elative Source Contribution	on of 20%. For carcinogens, th	ne concentration at the 1	0 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data	FOR ACETOCH	OR - PARENT								
UCMR finished water	3,615	0	0	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data	FOR ACETOCH	OR - PARENT								
NAWQA ambient water	5,529	278	5.02	0.0011	30.4	0.032	0.784	8.49	ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year		•	•	Notes	
NCFAP Pesticide Application - total	32,591,175	lbs/yr	35	States	1997	FOR ACETOCHLOP	R - PARENT			
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental wate data FOR ACETOCHLOR - PARENT	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	Units		Notes
CAL DHS	1,872	0	0					ug/L	Drinking water r http://www.cdph ts.aspx	nonitoring; ca.gov/certlic/drinkingwater/Pages/Chemicalcontaminan
STORET	848	293	34.55	0.026	21	0.022	1.5	ug/L		
HRL Ratios (HRL/NAWQA 90%)		Non-o	cancer: 205			Cano	er:		NAWQA data f	or acetochlor - parent
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
		lbs/yr	2002							
Use	Pesticide degrada	ate								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time								
K _{OC} , Organic Carbon Partition Coefficient		L/kg								
log K _{OW} , Octanol Water Partition Coeff.		unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant		atm-m ³ /mol								
Water Solubility		mg/L								
% water PBT profiler										

Contaminant:	Acrolein			7		Attribute	Scores		3-model Categorical Prediction
Substance Key:	4581				Potency	Severity	Prevalence	Magnitude	L?-L
Contaminant ID (CASRN):	107028				6	9	3	7	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									NC HRL/NAWQA 90%: 1.03
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose	9	
EPA IRIS (ITER) RfD	0.0005	mg/kg-d	2003	Decreased survival			Reference Dos	e; Basis = NOAEL 0.05 r	mg/kg-d; UF = 100. Parent, et. al, 1992a
EPA HA RfD		mg/kg-d					Reference Dose	2	
RAISHE RfD	0.0005	mg/kg-d					Reference Dose	e (IRIS)	
ATSDR (ITER), MRL	0.0005	mg/kg-d	12/1990	Hemato.			Minimal Risk Le	evel	
JMPR, maximum ADI		mg/kg-d					Acceptable Dail	y Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Dail	y Intake	
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value							Supplemental D	Data	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	ffect Level	
Supplemental NOEL		mg/kg-d					Supplemental D	Data	
RTECS Lowest Oral Chronic LOAEL	0.5	mg/kg-d		Liver - liver function t Bladder - other chan		dney, Ureter,	galogen I kislor	od sodergashie organiches	6-week study in rat; VCVGK "Vrednie chemichescie veshestva, skie soedinenia". (Hazardous substances. Galogen and oxygen al., Chimia, 1994. Volume(issue)/page/year -,385,1994
Supplemental LOAEL		mg/kg-d					Supplemental D	Data	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data	-								
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification	3		1995				Cancer classific identified for po		ening, but no related quantitative cancer risk data were
Other Supporting Data									
Is contaminant on list of carcinogens?		Y/N							
Is the contaminant on a list of reproductive toxins?		Y/N							
EPAHA-DWEL							Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²	3.5	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
¹ Bolded data indicate value was used in attribute s	scoring	· · · · · · · · · · · · · · · · · · ·		•					
² For the CCL process HRLs were calculated by co	onverting the RfD or o	ther dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70) Kg adult, and a Re	elative Source Contrib	oution of 20%. For ca	rcinogens, the concentration	at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data						•				
NAWQA ambient water	1,108	2	0.18	1.3	3.4	2.35	3.4	3.4	ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	1	lbs/yr	1	States	2004					
TRI Release - total	284,480	lbs/yr	16	States	2004					
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (HRL/NAWQA 90%)		Non-c	ancer: 1.03			Cance	r:			
Production	Amount Range	Units	Year							
CUSIUR Production Data	>100M - 500M	lbs/yr	1998							
	>100M - 500M	lbs/yr	2002							
Use	Aquatic herbicide	; rodenticide; indu	ustrial chemical (HS	SDB)						
Environmental Fate Parameters	Value	Units	Degradation code					Notes		
T _{1/2} , Half life	120-180	hours in water	BF	pH = 7; BF = biodegra	ades fast					
K _{OC} , Organic Carbon Partition Coefficient	3	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	-0.01	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	1.22E-04	atm-m ³ /mol								
Water Solubility	212,000	mg/L								
% water PBT profiler										

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Contaminant:		sulfonic acid (ES	SA)]			ttribute				3-model Categorical Prediction
Substance Key: Contaminant ID (CASRN):	71246 142363539				Potency 4	Seve 3		Prevalenc 9	e Magnite 3	ude	NL
Contaminant ID (CASRN):	142303555]	4	3		Scores base			HRL Ratio(s)
HEALTH EFFECTS DATA ¹											NC HRL/NAWQA 90%: 4,300 (NAWQA data for alachlor - parent)
Non-cancer data	Value	Units	Date		Critical Effect						Notes
EPA OPP RfD		mg/kg-d						Reference D	ose		
EPA IRIS (ITER) RfD		mg/kg-d						Reference D	ose		
EPA HA RfD		mg/kg-d						Reference D	ose		
RAISHE RfD		mg/kg-d						Reference D	ose		
ATSDR (ITER), MRL		mg/kg-d						Minimal Risk	Level		
JMPR, maximum ADI		mg/kg-d						Acceptable D	aily Intake		
CEDIADI, ADI		mg/kg-d						Acceptable D	aily Intake		
ITER, TDI								Tolerable Da	ily Intake		
Supplemental RfD-like value								Supplementa	al Data		
CTDJPN Highest Chronic? NOEL		mg/kg-d						No Observed	d Effect Level		
Supplemental NOEL	157	mg/kg-d		Increased incidence males and females a in males.				Supplement	al Data; EPA	OPP - FOR ALACI	ILOR ESA
RTECS Lowest Oral Chronic LOAEL		mg/kg-d						Lowest Obse	erved Adverse	Effect Level	
Supplemental LOAEL		mg/kg-d						Supplementa	al Data		
HSDB Lowest Oral LD50		mg/kg									
CTDJPN Lowest Oral LD50		mg/kg									
RTECS Lowest Oral LD50		mg/kg									
Cancer Data											
EPA Lifetime Cancer Risk, 10 ⁻⁴	0.04	mg/L						FOR ALACH	LOR - PAREN	ΝT	
RAISHE Slope Factor		(mg/kg-d) ⁻¹									
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹									
EPA Carcinogen classification											
IARC Carcinogen Classification											
Other Supporting Data											
Is contaminant on list of carcinogens?		Y/N									
Is the contaminant on a list of reproductive toxins?		Y/N									
EPAHA-DWEL								Drinking Wat	er Equivalent	Level	
Health Reference Level (HRL) ²	1,100	ug/L									
Health Reference Level (HRL) ² cancer		ug/L									
¹ Bolded data indicate value was used in attribute s	coring			·				·			
² For the CCL process HRLs were calculated by con	nverting the RfD or o	ther dose to ug/L, a	issuming 2 L/day of	water consumed by a 70	Kg adult, and a R	Relative Source	e Contribu	tion of 20%. For	carcinogens, th	ne concentration at the	e 10 ⁻⁶ cancer risk was used.

OCCURRENCE DATA		-	-			-			-	
	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data - FOR ALA	CHLOR PARENT					1		1		
NAWQA ambient water	7,166	568	7.9	0.0008	38.2	0.015	0.256	3.33	ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	•
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data - FOR ALACHLOR ESA	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	95% of Detects	Units for Mag data		Notes
PDP finished water	79	3	3.8	0.50	0.50			ug/L	Pesticide Data I	Program (USDA); 2001
PDP finished water	233	76	32.6	0.02	1.44			ug/L	2002	
FOR ALACHLOR - PARENT	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	Units for Mag data		Notes
CAL DHS	8,112	3	0.0003	0.24	14	4.29	11.09	ug/L	Drinking water r http://www.cdph s.aspx	monitoring; n.ca.gov/certlic/drinkingwater/Pages/Chemicalcontaminant
STORET	2,111	361	17.1	0.0125	10.78	0.06	0.55	ug/L		
HRL Ratios (HRL/NAWQA 90%)		Non-ca	ancer: 4,300			Cancer	:		NAWQA data f	or alachlor - parent
Production	Amount Range	Units	Year							
		lbs/yr	1998							
CUSIUR Production Data		lbs/yr	2002							
Use	Pesticide degrada	ate	•							
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time								
K _{oc} , Organic Carbon Partition Coefficient			1							
		L/kg								
log K _{ow} , Octanol Water Partition Coeff.		L/kg unitless								
log K _{ow} , Octanol Water Partition Coeff. Kd, Distribution coefficient		-								
		unitless								
Kd, Distribution coefficient		unitless L/kg								

Contaminant:	Alachlor oxanili	c acid (OA)]		Attribute			3-model Categorical Prediction
Substance Key:	79196			-	Potency	Severity	Prevalence	Magnitude	L?
Contaminant ID (CASRN):	171262172			J	5 Scores based on	8 parent	9 Scores based o	3 n parent	HRL Ratio(s)
HEALTH EFFECTS DATA ¹						F		.	CAR HRL/NAWQA 90%: 1.56 (NAWQA data for alachlor - parent)
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose	9	
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose	9	
EPA HA RfD		mg/kg-d					Reference Dose	9	
RAISHE RfD		mg/kg-d					Reference Dose	9	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	vel	
JMPR, maximum ADI		mg/kg-d					Acceptable Dail	y Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Dail	y Intake	
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value							Supplemental D	lata	
CTDJPN Highest Chronic? NOEL		mg/kg-d					No Observed Et	ffect Level	
Supplemental NOEL		mg/kg-d					Supplemental D	vata	
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observe	ed Adverse Effect Level	
Supplemental LOAEL		mg/kg-d					Supplemental D	vata	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴	0.04	mg/L					FOR ALACHLO	DR - PARENT	
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?		Y/N							
Is the contaminant on a list of reproductive toxins?		Y/N							
EPAHA-DWEL							Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²		ug/L							
Health Reference Level (HRL) ² cancer	0.4	ug/L							
¹ Bolded data indicate value was used in attribute s	coring	· · · · · ·		·					
² For the CCL process HRLs were calculated by con	nverting the RfD or c	ther dose to ug/L, a	ssuming 2 L/day of	water consumed by a 7	0 Kg adult, and a Re	lative Source Contribu	ution of 20%. For ca	rcinogens, the concentration	at the 10 ⁻⁶ cancer risk was used.

Alachlor OA CCL 3 Contaminant Information Sheet OCCURRENCE DATA¹

OCCURRENCE DATA	1	r.		I		1		T	1	
	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data - FOR ALA	CHLOR PARENT									
NAWQA ambient water	7,166	568	7.9	0.0008	38.2	0.015	0.256	3.33	ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data - FOR ALACHLOR OA	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	95% of Detects	Units for Mag data		Notes
PDP finished water	137	1	0.07	0.50	0.50			ug/L	Pesticide Data I	Program (USDA); 2001
PDP finished water	411	21	5.1	0.121	0.392			ug/L	2002	
FOR ALACHLOR - PARENT	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	Units for Mag data		Notes
CAL DHS	8,112	3	0.0003	0.24	14	4.29	11.09	ug/L	Drinking water r http://www.cdph ts.aspx	nonitoring; n.ca.gov/certlic/drinkingwater/Pages/Chemicalcontaminan
STORET	2,111	361	17.1	0.0125	10.8	0.06	0.55	ug/L		
HRL Ratios (HRL/NAWQA 90%)		No	n-cancer:			Cancer: 7	1.56		NAWQA data f	or alachlor - parent
Production	Amount Range	Units	Year							
CUCIUD Production Data		lbs/yr	1998							
CUSIUR Production Data		lbs/yr	2002							
Use	Pesticide degrada	ate								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time								
K _{oc} , Organic Carbon Partition Coefficient		L/kg								
log K _{ow} , Octanol Water Partition Coeff.		unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant		atm-m ³ /mol								
Water Solubility		mg/L								
% water PBT profiler										

Contaminant:	alpha-Hexachlo	rocyclohexane]		Attribute		-	3-model Categorical Prediction
Substance Key: Contaminant ID (CASRN):	6535 319846			4	Potency 7	Severity	Prevalence		L?
Contaminant ID (CASRN):	319846			_	1	8	4	3	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									NC HRL/NAWQA 90%: 949 CAR HRL/NAWQA 90%: 0.102
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dos	e	
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dos	e	
EPA HA RfD		mg/kg-d					Reference Dos	e	
RAISHE RfD		mg/kg-d					Reference Dos	e	
ATSDR (ITER), MRL	0.008	mg/kg-d	9/2003	Hepatic			Minimal Risk Le	evel; Basis NOAEL 0.8 mg	g/kg-d; UF = 100.
JMPR, maximum ADI		mg/kg-d					Acceptable Dai	ly Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Dai	ly Intake	
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value							Supplemental [Data	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	ffect Level	
Supplemental NOEL		mg/kg-d					Supplemental [Data	
RTECS Lowest Oral Chronic LOAEL	1.2	mg/kg-d		Biochemical - Enzym blood or tissue levels (dealkylation, hydrox inhibition, induction, catalases, Biochemic change in blood or ti	s - hepatic micros ylation, etc.), Bio or change in bloo cal - Enzyme inhil	omal mixed oxidase chemical - Enzyme d or tissue levels - pition, induction, or	Lowest Observ		30-day study in rat; TOLED5 Toxicology Letters. (Elsevier msterdam, Netherlands) V.1- 1977- Volume(issue)/page/yea
Supplemental LOAEL		mg/kg-d					Supplemental [Data	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴	0.0006	mg/L							
RAISHE Slope Factor	6.3	(mg/kg-d) ⁻¹					IRIS		
OEHHA Slope Factor (oral)	2.7	(mg/kg-d) ⁻¹							
EPA Carcinogen classification	B2								
IARC Carcinogen Classification	2B								
Other Supporting Data									
Is contaminant on list of carcinogens?	Y	Y/N					EPA; RAIS; OE	HHA; IARC	
Is the contaminant on a list of reproductive toxins?		Y/N							
EPAHA-DWEL							Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²	56	ug/L							
Health Reference Level (HRL) ² cancer	0.006	ug/L							
¹ Bolded data indicate value was used in attribute s	scoring	·		<u> </u>					
² For the CCL process HRLs were calculated by co	onverting the RfD or o	other dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70) Kg adult, and a R	elative Source Contrib	ution of 20%. For ca	rcinogens, the concentration	at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water	7,119	21	0.295	0.0004	0.21	0.011	0.059	0.21	ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (HRL/NAWQA 90%)		Non-c	ancer: 949			Cancer: 0	.102			
Production	Amount Range	Units	Year							
		lbs/yr	1998							
CUSIUR Production Data		lbs/yr	2002							
Use	Component of be	nzene hexachlori	de (BHC) former ir	nsecticide (HSDB)						
Environmental Fate Parameters	Value	Units	Degradation code					Notes		
T _{1/2} , Half life	1.2	years	BST	hydrolysis only, pH = `	7; BST = biodeg	rades sometimes/reca	alcitrant			
K _{OC} , Organic Carbon Partition Coefficient	641-1,995	L/kg								
log K _{ow} , Octanol Water Partition Coeff.	3.8	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	6.70E-06	atm-m ³ /mol								
Water Solubility	2	mg/L								
% water PBT profiler										

Contaminant:	Anatoxin-a]		Attribute	Scores			3-model Categorical Prediction
Substance Key:	80772				Potency	Severity	Prevalence			L
Contaminant ID (CASRN):	64285069			J	6	9	9 Scores based o	8 n supplemental data	а	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									-	NC HRL/Cyano HABs MAX: ~0.35
Non-cancer data	Value	Units	Date		Critical Effect					Notes
EPA OPP RfD		mg/kg-d					Reference Dose	9		
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose	9		
EPA HA RfD		mg/kg-d					Reference Dose	9		
RAISHE RfD		mg/kg-d					Reference Dose	9		
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	vel		
JMPR, maximum ADI		mg/kg-d					Acceptable Dail	y Intake		
CEDIADI, ADI		mg/kg-d					Acceptable Dail	y Intake		
ITER, TDI							Tolerable Daily	Intake		
Supplemental RfD-like value	0.0005	mg/kg-d	2006	Mortality			Simplified mon and the sub-ac Health, W.W. C	itoring of anatoxin aute effects of anat armichael, Ed. Ple R. Hilbelink. 1980. I	n-a by revers toxin-a in rats num Press, I	0.5 mg/kg-d. Astrachan, N.B. and B.G. Archer. 1981. e-phase high performance liquid chromatography s. In: The Water Environment: Algal Toxins and New York, NY. p. 437-446. Astrachan, N.B., B.G. 'the subacute toxicity and teratogenicity of anatoxin-
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Ef	ffect Level		
Supplemental NOEL		mg/kg-d					Supplemental D	ata		
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observe	ed Adverse Effect Lo	evel	
Supplemental LOAEL		mg/kg-d					Supplemental D	ata		
HSDB Lowest Oral LD50		mg/kg								
CTDJPN Lowest Oral LD50		mg/kg								
RTECS Lowest Oral LD50		mg/kg								
Cancer Data										
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L								
RAISHE Slope Factor		(mg/kg-d) ⁻¹								
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹								
EPA Carcinogen classification										
IARC Carcinogen Classification										
Other Supporting Data										
Is contaminant on list of carcinogens?		Y/N								
Is the contaminant on a list of reproductive toxins?		Y/N								
EPAHA-DWEL							Drinking Water	Equivalent Level		
Health Reference Level (HRL) ²	3.5	ug/L								
Health Reference Level (HRL) ² cancer		ug/L								
¹ Bolded data indicate value was used in attribute so	coring									
² For the CCL process HRLs were calculated by cor	verting the RfD or ot	ther dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70) Kg adult, and a Rel	ative Source Contribu	ition of 20%. For ca	rcinogens, the concer	ntration at the 1	0 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year			1	Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
Prev: UCMR 1 Meeting summary; Mag: CyanoHABs - The Florida Experience			4		~10			ug/L	Prev: Lake Ch	amplain, NY study; Mag: 2000 Florida study
HRL Ratios (HRL/CyanoHABs MAX)		Non-ca	ancer: ~0.35			Cance	r:			
Production	Amount Range	Units	Year						•	
		lbs/yr	1998							
CUSIUR Production Data		lbs/yr	2002							
Use	Cyanobacterial to	oxin				L				
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time								
K _{OC} , Organic Carbon Partition Coefficient		L/kg								
log K _{ow} , Octanol Water Partition Coeff.		unitless								
Kd, Distribution coefficient		L/kg								
Kd, Distribution coefficient HLC, Henry's Law Constant		L/kg atm-m ³ /mol								

Contaminant	Aniline			1 1		Attribute	e Scores		3-model Categorical Prediction
Substance Key:	2438				Potency	Severity	Prevalence	Magnitude	L? - L
Contaminant ID (CASRN):	62533			J	5	6	9	8	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									No water data
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose	9	
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose	2	
EPA HA RfD		mg/kg-d					Reference Dose	2	
RAISHE RfD	0.007	mg/kg-d		Blood- effects; Sple	en-effects		Reference Dos 1982.	e; Provisional value; 1	04-week chronic study in rat for aniline hydrochloride. CIIT,
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	vel	
JMPR, maximum ADI		mg/kg-d					Acceptable Dail	y Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Dail	y Intake	
ITER, TDI	0.007	mg/kg-d	1993	spleen			Tolerable Daily	Intake; CIIT,1982; Basis	LOAEL 7.2 mg/kg-d; rat; UF = 1,000
Supplemental RfD-like value							Supplemental D	ata	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Ef	fect Level	
Supplemental NOEL		mg/kg-d					Supplemental D	ata	
RTECS Lowest Oral Chronic LOAEL	2.5	mg/kg-d		Blood - pigmented or methemoglobinemia- Enzyme inhibition, inc levels - other esterase	carboxyhemoglo luction, or chang	bin, Biochemical -	English translati		12 week oral study in rats; GISAAA Gigiena i Sanitariya. For Mezhdunarodnaya Kniga, 113095 Moscow, USSR) V.1- 1936-
Supplemental LOAEL		mg/kg-d					Supplemental D	ata	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴	0.6	mg/L							
RAISHE Slope Factor	0.0057	(mg/kg-d) ⁻¹					from IRIS		
OEHHA Slope Factor (oral)	0.0057	(mg/kg-d) ⁻¹							
EPA Carcinogen classification	B2			spleen					
IARC Carcinogen Classification	3		1987				Vol. 27, Suppl. 7	7; 1987	
Other Supporting Data									
Is contaminant on list of carcinogens?	Y	Y/N					EPA, CACART,	OEHHA, RAIS	
Is the contaminant on a list of reproductive toxins?		Y/N							
EPAHA-DWEL							Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²	49	ug/L							
Health Reference Level (HRL) ² cancer	6	ug/L							
¹ Bolded data indicate value was used in attribute so	coring								
² For the CCL process HRLs were calculated by cor	overting the RfD or o	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	elative Source Contrib	oution of 20%. For ca	rcinogens, the concentratio	on at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water									ug/L	
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	1,903	lbs/yr	7	States	2004					
TRI Release - total	937,263	lbs/yr	20	States	2004					
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (No water data)		Nor	n-cancer:			Cancer	r:			
Production	Amount Range	Units	Year							
CUSIUR Production Data	> 1B	lbs/yr	1998							
	> 1B	lbs/yr	2002							
Use	Industrial chemica	al; as solvent; syr		es, rubber accelerators	, isocyanates (H	SDB)				
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BF	BF = Biodegrades Fas	st					
K _{OC} , Organic Carbon Partition Coefficient	44.78	L/kg								
log K _{ow} , Octanol Water Partition Coeff.	0.9	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	2.02E-06	atm-m3/mol								
Water Solubility	36000	mg/L								

Contaminant:	Bensulide			1		Attribute	Scores		3-model Categorical Prediction
Substance Key:	9553				Potency	Severity		Magnitude	L?
Contaminant ID (CASRN):	741582				5	5	10	6	HRL Ratio(s)
HEALTH EFFECTS DATA									NC HRL/SWC EEC: 0.224
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD	0.005	mg/kg-d		Plasma & brain ChE gain	inhibition, decr	reased body weight	Reference Dose;	Basis = NOAEL 0.5	mg/kg-d; UF = 100.
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose		
EPA HA RfD		mg/kg-d					Reference Dose		
RAISHE RfD		mg/kg-d					Reference Dose		
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Leve	el	
JMPR, maximum ADI		mg/kg-d					Acceptable Daily	Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Daily	Intake	
ITER, TDI							Tolerable Daily In	take	
Supplemental RfD-like value							Supplemental Da	ta	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Effe	ect Level	
Supplemental NOEL		mg/kg-d					Supplemental Da	ta	
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observed	Adverse Effect Level	
Supplemental LOAEL		mg/kg-d					Supplemental Dat	ta	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50	271	mg/kg		Details of toxic effect value	s not reported oth	ner than lethal dose		hemicals Handbook. ge/year -,C42,1991	(Meister Pub., 37841 Euclid Ave., Willoughy, OH 44094)
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?		Y/N							
Is the contaminant on a list of reproductive toxins?		Y/N							
EPAHA-DWEL							Drinking Water Ed	quivalent Level	
Health Reference Level (HRL) ²	35	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
¹ Bolded data indicate value was used in attribute so	coring			· · · · · · · · · · · · · · · · · · ·					
² For the CCL process HRLs were calculated by cor	verting the RfD or ot	her dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	elative Source Contribu	tion of 20%. For carci	nogens, the concentrati	on at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total	545,406	lbs/yr	34	States	1997					
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data										
OPP Estimated Environmental Concentration		Surface water ch	nronic: 158 ug/L			Ground water chronic	c: 1 ug/L			
HRL Ratios (HRL/SWC EEC)		Non-ca	ancer: 0.224			Cance	r:			
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
COSION FIDUUCION Data		lbs/yr	2002							
Use	Herbicide (HSDB)								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BSA	PBT; BSA = Biodegra	des Slowly with	Acclimation				
K _{OC} , Organic Carbon Partition Coefficient		L/kg								
log K _{OW} , Octanol Water Partition Coeff.		unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	9.15E-09	atm-m ³ /mol								
Water Solubility		mg/L								
% water PBT profiler	15									

Contaminant:	Benzyl chloride]		Attribute			3-model Categorical Prediction
Substance Key: Contaminant ID (CASRN):	4107 100447				Potency 6	Severity 8	Prevalence	Magnitude 5	L? - L
Containinant ID (CASKN).	100447				0	0	1	5	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									No data for calculating HRL ratio
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose	e	
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose	5	
EPA HA RfD		mg/kg-d					Reference Dose	e	
RAISHE RfD		mg/kg-d					Reference Dose	e	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	evel	
JMPR, maximum ADI		mg/kg-d					Acceptable Dai	ly Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Dai	ly Intake	
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value							Supplemental E	Data	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	ffect Level	
Supplemental NOEL		mg/kg-d					Supplemental E		
RTECS Lowest Oral Chronic LOAEL	26.6	mg/kg-d		Cardiac - other chang changes, Related to			(Washington, D		IND8 JNCI, Journal of the National Cancer Institute. ublisher information, see JNCIEQ. Volume(issue)/page/year
Supplemental LOAEL		mg/kg-d					Supplemental E	Data	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴	0.02	mg/L							
RAISHE Slope Factor	0.17	(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)	0.17	(mg/kg-d) ⁻¹					2B from IARC		
EPA Carcinogen classification	B2		1989	Thyroid			Lijinsky, 1986		
IARC Carcinogen Classification	2B								
Other Supporting Data									
Is contaminant on list of carcinogens?	Y	Y/N					CACART, EPA,	RAIS, OEHHA, IARC	
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Teratogen			UMD		
EPAHA-DWEL							Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²	62	ug/L							
Health Reference Level (HRL) ² cancer	0.2	ug/L							
¹ Bolded data indicate value was used in attribute s	scoring								
² For the CCL process HRLs were calculated by co	onverting the RfD or c	other dose to ug/L, as	suming 2 L/day of	water consumed by a 70	Kg adult, and a Re	elative Source Contribu	ution of 20%. For ca	rcinogens, the concentration a	t the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water									ug/L	
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	259	lbs/yr	3	States	2004					
TRI Release - total	18,750	lbs/yr	10	States	2004					
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	Units for Mag data		Notes
Krasner, et al., 2006	12	0	0	Not Detected	Not Detected	Not Detected	Not Detected		Krasner, et al., 2	2006. Env. Sci. & Technol., 40(23), pp. 7175-7185.
HRL Ratios (No data for calculating HRL ratio)		No	n-cancer:			Cance	r:			
Production	Amount Range	Units	Year							
CUSIUR Production Data	>50M - 100M	lbs/yr	1998							
	>50M - 100M	lbs/yr	2002							
Use	Chemical interme	diate (NTP)								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BS	PBT; BS = biodegrad	es slowly					
K _{OC} , Organic Carbon Partition Coefficient	517.8	L/kg								
log K _{ow} , Octanol Water Partition Coeff.	2.3	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	4.11E-04	atm-m ³ /mol								
Water Solubility	20	mg/L								
% water PBT profiler	27									

Contaminant	Butylated hydrox	kyanisole		1		Attribute	Scores		3-model Categorical Prediction
Substance Key: Contaminant ID (CASRN):	28160			-	Potency	Severity	Prevalence	Magnitude	NL?
Contaminant ID (CASRN):	25013165				7	3	8	4	HRL Ratio(s)
HEALTH EFFECTS DATA1									NC HRL/NREC NA GW MED: 0.484 CAR HRL/NREC NA GW MED: 146
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose		
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose		
EPA HA RfD		mg/kg-d					Reference Dose		
RAISHE RfD		mg/kg-d					Reference Dose		
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	vel	
JMPR, maximum ADI		mg/kg-d					Acceptable Daily	/ Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Daily	/ Intake	
ITER, TDI		mg/kg-d					Tolerable Daily I	ntake	
Supplemental RfD-like value		mg/kg-d					Supplemental D	ata	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Ef	fect Level	
Supplemental NOEL		mg/kg-d					Supplemental D	ata	
RTECS Lowest Oral Chronic LOAEL	0.249	mg/kg-d	1959	Liver - changes in li	ver weight				l; AJEBAK Australian Journal of Experimental Biology and ralia) V.1-64, 1924-86. Volume(issue)/page/year 37,533,1959
Supplemental LOAEL		mg/kg-d					Supplemental D	ata	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)	0.0002	(mg/kg-d) ⁻¹							
EPA Slope Factor		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification	2B						Vol. 40, Suppl. 7	r, 1987	
Other Supporting Data									
Is contaminant on list of carcinogens?	Y	Y/N					CACART; OEH	IA; IARC	
Is the contaminant on a list of reproductive toxins?		Y/N							
EPAHA-DWEL							Drinking Water B	Equivalent Level	
Health Reference Level (HRL) ²	0.581	ug/L							
Health Reference Level (HRL) ² cancer	175	ug/L							
¹ Bolded data indicate value was used in attribute s	coring								
² For the CCL process HRLs were calculated by co	nverting the RfD or of	ther dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	lative Source Contribu	ution of 20%. For car	cinogens, the concentration	at the 10 ⁻⁶ cancer risk was used.

OCCORRENCE DATA	1	1		1				1	1	
	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water	85	2	2.4			0.1			ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
	# Samples	# with Detects	% Samples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
NREC ambient surface water			3			0.2			ug/L	National Aggregate
NREC ambient ground water			0.61			1.2			ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year			1	Notes	
NCFAP Pesticide Application - total		lbs/yr		States	1997					
TRI Release - surface water		lbs/yr		States	2004					
TRI Release - total		lbs/yr		States	2004					
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
Kolpin, et al., 2002					0.2			ug/L		e Water Reconnaissance; Kolpin, et al., 2002. Env. Sci. 6), pp. 1202-1211.
Focazio, et al., 2008					Not detected			ug/L	A national record wastewater con	naissance for pharmaceuticals and other organic taminants in the United States II. Untreated drinking Focazio, et al., 2008. Sci. Tot. Env., 402(2-3), pp. 201-
HRL Ratios (HRL/NREC NA GW MED)		Non-c	ancer: 0.484			Cancer:	146			
Production	Amount Range	Units	Year							
	>500K-1M	lbs/yr	1998							
CUSIUR Production Data	10K-500K	lbs/yr	2002							
Use	Food additive (an	tioxidant) (HSDB		1		I				
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life	38 days	length of time		BSA = Biodegrades s	low with acclimat	tion (PBT)				
K _{oc} , Organic Carbon Partition Coefficient	1,390	L/kg								
log K _{ow} , Octanol Water Partition Coeff.	3.5	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	1.17E-06	atm-m ³ /mol								
Water Solubility		mg/L								
% water PBT profiler	15									

Contaminant:	Captan			1		Attribute	Scores			3-model Categorical Prediction
Substance Key:	5825				Potency	Severity	Prevalence	Magnitude		L
Contaminant ID (CASRN):	133062			J	4	8	10	8		
HEALTH EFFECTS DATA ¹										HRL Ratio(s) NC HRL/SWC EEC: 84.3 CAR HRL/SWC EEC: 1.35
Non-cancer data	Value	Units	Date		Critical Effect				Not	es
EPA OPP RfD	0.13	mg/kg-d	1999	Decreased pup body	weight		Reference Dos	se; Basis = NOEL 12.5 m	g/kg-d; UF = 10	00
EPA IRIS (ITER) RfD		mg/kg-d								
EPA HA RfD		mg/kg-d					Reference Dos	se		
RAISHE RfD	0.13	mg/kg-d					Reference Dos	se		
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk L	evel		
JMPR, maximum ADI	0.1	mg/kg-d	1995				Acceptable Da	ily Intake		
CEDIADI, ADI		mg/kg-d					Acceptable Da	ily Intake		
ITER, TDI							Tolerable Dail	/ Intake		
Supplemental RfD-like value							Supplemental	Data		
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed I	Effect Level		
Supplemental NOEL		mg/kg-d					Supplemental	Data		
RTECS Lowest Oral Chronic LOAEL	19.9	mg/kg-d		Kidney, Ureter, Blado composition, Blood - cells, Biochemical - E change in blood or tis	pigmented or nucleon	cleated red blood , induction, or	HYSAAV. (V/	ved Adverse Effect Level; D Mezhdunarodnaya Knig /page/year 38(9),24,1973	ga, 113095 Mo	ena i Sanitariya. For English translation, see scow, USSR) V.1- 1936-
Supplemental LOAEL		mg/kg-d					Supplemental	Data		
HSDB Lowest Oral LD50		mg/kg								
CTDJPN Lowest Oral LD50		mg/kg								
RTECS Lowest Oral LD50		mg/kg								
Cancer Data										
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L								
OPP Slope Factor (oral)	0.0024	(mg/kg-d) ⁻¹								
RAISHE Slope Factor	0.0035	(mg/kg-d) ⁻¹								
OEHHA Slope Factor (oral)	0.0023	(mg/kg-d) ⁻¹								
EPA Carcinogen classification										
IARC Carcinogen Classification	3		1987							
Other Supporting Data										
Is contaminant on list of carcinogens?	Y	Y/N					CACART; EPA	; OEHHA; RAIS		
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Teratogen			UMD			
EPAHA-DWEL							Drinking Wate	Equivalent Level		
Health Reference Level (HRL) ²	910	ug/L								
Health Reference Level (HRL) ² cancer	14.6	ug/L								
¹ Bolded data indicate value was used in attribute s	-									
² For the CCL process HRLs were calculated by co	nverting the RfD or o	other dose to ug/L, a	assuming 2 L/day of	water consumed by a 70) Kg adult, and a Re	elative Source Contrib	ution of 20%. For c	arcinogens, the concentration	on at the 10 ⁻⁶ c	ancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data						•				
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total	3,992,782	lbs/yr	39	States	1997					
TRI Release - surface water	15	lbs/yr	3	States	2004					
TRI Release - total	2,938	lbs/yr	6	States	2004					
Supplemental Water Data										
OPP Estimated Environmental Concentration		Surface water ch	nronic: 10.8 ug/L			Ground water chronic	c: 0 ug/L			
HRL Ratios (HRL/SWC EEC)		Non-c	ancer: 84.3			Cancer: 7	1.35			
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
		lbs/yr	2002							
Use	Fungicide (NTP)									
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BST	BST = Biodegrades S	ometimes/Recal	citrant. However, hyd	rolysis half-life i	s 4.9 hrs - 18.8 h	rs @ pH 7 and 5,	respectively.
K _{OC} , Organic Carbon Partition Coefficient	862.2	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	2.8	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	7.01E-09	atm-m ³ /mol								
Water Solubility	5.1	mg/L								
% water PBT profiler										

Contaminant:	Chlorate	1		Attribute	Scores		3-model Categorical Prediction
Substance Key:	24376		Potency	Severity	Prevalence	Magnitude	
Contaminant ID (CASRN):	14866683		5	6	10	10	L
							HRL Ratio(s)

NC HRL/DBP ICR 90%: 0.656

HEALTH EFFECTS DATA1

HEALTH EFFECTS DATA ¹						NC HRL/DBP ICR 90%: 0.656		
Non-cancer data	Value	Units	Date	Critical Effect		Notes		
EPA OPP RfD	0.03	mg/kg-d		Thyroid hypertrophy and mineralization	Reference Dose			
EPA IRIS (ITER) RfD		mg/kg-d			Reference Dose			
EPA HA RfD		mg/kg-d			Reference Dose			
RAISHE RfD		mg/kg-d			Reference Dose			
ATSDR (ITER), MRL		mg/kg-d			Minimal Risk Level			
JMPR, maximum ADI		mg/kg-d			Acceptable Daily Intake			
CEDIADI, ADI		mg/kg-d			Acceptable Daily Intake			
ITER, TDI					Tolerable Daily Intake			
Supplemental RfD-like value					Supplemental Data			
CTDJPN Highest Chronic NOEL		mg/kg-d			No Observed Effect Level			
Supplemental NOEL	5	mg/kg-d	2005	Bone marrow hyperplasia; thyroid folicular hypertrophy and mineralization	Supplemental Data - NTP Abstract for TR-517; 2-	year rat study for sodium chlorate		
RTECS Lowest Oral Chronic LOAEL	1.4	mg/kg-d		Blood - pigmented or nucleated red blood cells, Blood -	Lowest Observed Adverse Effect Level; 1-year ora Environmental Pathology, Toxicology and Oncolog V.5(4)- 1984- Volume(issue)/page/year	al rat study fopr sodium chlorate; Journal of gy. (Chem-Orbital, POB 134, Park Forest, IL 60466)		
Supplemental LOAEL		mg/kg-d			Supplemental Data			
HSDB Lowest Oral LD50		mg/kg						
CTDJPN Lowest Oral LD50		mg/kg						
RTECS Lowest Oral LD50		mg/kg						
Cancer Data				•				
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L						
RAISHE Slope Factor		(mg/kg-d) ⁻¹						
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹						
EPA Carcinogen classification	Not likely to be ca doses that do not							
IARC Carcinogen Classification								
Other Supporting Data				•				
Is contaminant on list of carcinogens?		Y/N						
Is the contaminant on a list of reproductive toxins?		Y/N						
EPAHA-DWEL					Drinking Water Equivalent Level			
Health Reference Level (HRL) ²	210	ug/L						
Health Reference Level (HRL) ² cancer		ug/L						
¹ Bolded data indicate value was used in attribute s	coring			·	·			
² For the CCL process HRLs were calculated by co	nverting the RfD or o	other dose to ug/L, a	assuming 2 L/day of	water consumed by a 70 Kg adult, and a Relative Source Contribut	ion of 20%. For carcinogens, the concentration at the 10	⁻⁶ cancer risk was used.		

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data	•	•	•				•			
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Mean value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	
DBP ICR finished water	1,719	1,490	86.7	172	2,234	120	320		ug/L	
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total	7,261,557	lbs/yr	16	States	1997	For sodium chlorate				
TRI Release - surface water		lbs/yr		States	2004					
TRI Release - total		lbs/yr		States	2004		-			
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Median of Detects	Maximum of Detects	Units for Mag data				Notes
CAL DHS	116	66	56.9	110	747	ug/L	Drinking water http://www.cdpl		inkingwater/Pag	es/Chemicalcontaminants.aspx
HRL Ratios (HRL/DBP ICR 90%)		Non-c	ancer: 0.656			Cance	ir:			
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
		lbs/yr	2002							
Use	Agricultural defoli	ant or desiccant	and in the production	on of CIO 2 (HSDB).						
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		days								
K _{OC} , Organic Carbon Partition Coefficient		L/kg								
log K _{ow} , Octanol Water Partition Coeff.		unitless								
Kd, Distribution coefficient		cm3/g								
HLC, Henry's Law Constant		atm-m ³ /mol								
Water Solubility	1,000,000	mg/L		For sodium chlorate						
% water PBT profiler										

Chlorate CCL 3 Contaminant Information Sheet OCCURRENCE DATA¹

Contaminant	Chloromethane	(Methyl chloride)	1		Attribute	Scores		3-model Categorical Prediction
Substance Key:	2605				Potency	Severity	Prevalence	Magnitude	L? - L
Contaminant ID (CASRN):	74873			J	5	8	8	7	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									NC HRL/NCOD R1 90%: 2.15 CAR HRL/NCOD R1 90%: 0.207
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dos	e	
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dos	e	
EPA HA RfD	0.004	mg/kg-d	2006	Mild neurological effe exposed to chlorome		cupationally	Reference Dos	e	
RAISHE RfD		mg/kg-d					Reference Dos	e	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk L	evel	
JMPR, maximum ADI		mg/kg-d					Acceptable Da	ily Intake	
CEDIADI, ADI		mg/kg-d							
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value							Supplemental	Data	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	Effect Level	
Supplemental NOEL		mg/kg-d					Supplemental	Data	
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observ	ed Adverse Effect Level	
Supplemental LOAEL		mg/kg-d					Supplemental	Data	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor	0.013	(mg/kg-d) ⁻¹	1981				CIIT, 1981		
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification	D		2001						
IARC Carcinogen Classification	3		1999				Vol. 41, Suppl.	7, Vol. 71; 1999	
Other Supporting Data									
Is contaminant on list of carcinogens?	Y	Y/N		developmental			CACART, RAI	S	
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Teratogen			UMD		
EPAHA-DWEL	0.1	mg/L	2006				Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²	28	ug/L							
Health Reference Level (HRL) ² cancer	2.69	ug/L							
¹ Bolded data indicate value was used in attribute s	coring								
² For the CCL process HRLs were calculated by co	nverting the RfD or o	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	elative Source Contrib	ution of 20%. For c	arcinogens, the concentration	at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data	•									
UCMR finished water									ug/L	
NCOD Round 1 finished water	20,246	248	1.22	0.01	550	1.9	13	120	ug/L	
NCOD Round 2 finished water	23,478	528	2.25	0.00073	312	1.4	5	29	ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water	3,959	356	8.99	0.007	21	0.04	0.1	0.58	ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	1,539	lbs/yr	10	States	2004					
TRI Release - total	1,733,197	lbs/yr	26	States	2004					
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	Units for Mag data		Notes
CAL DHS	11,984	247	2.1	0.25	46	0.7	2	ug/L	Drinking water r http://www.cdph ts.aspx	nonitoring; n.ca.gov/certlic/drinkingwater/Pages/Chemicalcontaminan
Krasner et al., 2006	12	1	8			ND		ug/L	Krasner, et al., 2	2006. Env. Sci. & Technol., 40(23), pp. 7175-7185.
HRL Ratios (HRL/NCOD R1 90%)		Non-o	cancer: 2.15			Cancer: 0	.207			
Production	Amount Range	Units	Year							
CUSIUR Production Data	> 1B	lbs/yr	1998							
	> 1B	lbs/yr	2002							
Use	Foaming agent; in	n organic synthes	sis (HSDB); natural	y-occurring gas						
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life	15	days	BS	PBT; BS = Biodegrad	es Slowly					
K _{OC} , Organic Carbon Partition Coefficient	14	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	0.91	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	8.82E-03	atm-m3/mol								
Water Solubility	5320	mg/L								
% water PBT profiler	43									

Chloromethane (Methyl chloride)

CCL 3 Contaminant Information Sheet

Contaminant:	Clethodim]		Attribute	Scores		3-model Categorical Prediction
Substance Key: Contaminant ID (CASRN):	76719 110429624			-		verity	Prevalence Magnitude		L?
Contaminant ID (CASRN):	110429624				5	4	10 6		HRL Ratio(s)
HEALTH EFFECTS DATA ¹	-								NC HRL/SWC EEC: 9.21
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD	0.01	mg/kg-d		Increased liver weig liver histopathology	ghts increased liver enzy y	mes and	Reference Dose; Basis = NOEL	1 mg/kg-d; UF	[:] = 100.
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose		
EPA HA RfD		mg/kg-d					Reference Dose		
RAISHE RfD		mg/kg-d					Reference Dose		
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Level		
JMPR, maximum ADI	0.01	mg/kg-d	1999				Acceptable Daily Intake		
CEDIADI, ADI		mg/kg-d					Acceptable Daily Intake		
ITER, TDI							Tolerable Daily Intake		
Supplemental RfD-like value							Supplemental Data		
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Effect Level		
Supplemental NOEL		mg/kg-d					Supplemental Data		
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observed Adverse Effect	Level	
Supplemental LOAEL		mg/kg-d					Supplemental Data		
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50	1,360	mg/kg		Details of toxic effects value	ts not reported other than le	ethal dose	Oral study in rat; FMCHA2 Farm 44094) Volume(issue)/page/year	Chemicals Hand -,C272,1991	dbook. (Meister Pub., 37841 Euclid Ave., Willoughy, OH
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?		Y/N							
Is the contaminant on a list of reproductive toxins?		Y/N							
EPAHA-DWEL							Drinking Water Equivalent Level		
Health Reference Level (HRL) ²	70	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
¹ Bolded data indicate value was used in attribute s	coring								
² For the CCL process HRLs were calculated by co	nverting the RfD or o	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70) Kg adult, and a Relative Sou	rce Contribu	tion of 20%. For carcinogens, the conc	entration at the 1	0 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total	670,721	lbs/yr	39	States	1997					
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data:										
OPP Estimated Environmental Concentration		Surface water ch	nronic: 7.6 ug/L			Ground water chroni	c: 0.49 ug/L			
HRL Ratios (HRL/SWC EEC)		Non-c	ancer: 9.21			Cance	er:			
Production	Amount Range	Units	Year							
OUOUUD Des dusting Date		lbs/yr	1998							
CUSIUR Production Data		lbs/yr	2002							
Use	Herbicide; pestici	de degradate								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time								
K _{OC} , Organic Carbon Partition Coefficient		L/kg								
log K _{OW} , Octanol Water Partition Coeff.		unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant		atm-m ³ /mol								
Water Solubility		mg/L								
% water PBT profiler										

Contaminant:	Cobalt			1		Attribute	Scores		3-model Categorical Prediction		
Substance Key:	18870				Potency	Severity	Prevalence	Magnitude	NL?		
Contaminant ID (CASRN):	7440484			J	5	4	4	8	HRL Ratio(s)		
HEALTH EFFECTS DATA ¹									NC HRL/NIRS 90%: 6.67		
Non-cancer data	Value	Units	Date		Critical Effect				Notes		
EPA OPP RfD		mg/kg-d					Reference Dose				
EPA IRIS (ITER) RfD		mg/kg-d			Reference Dose						
EPA HA RfD		mg/kg-d		Reference Dose							
RAISHE RfD	0.02	mg/kg-d					Reference Dose				
ATSDR (ITER), MRL	0.01	mg/kg-d	2004	Blood-increased he respiratory-effects of	moglobin, polyc on lung function	ythemia;	Minimal Risk Le	evel; MRL-Int; UF = 100			
JMPR, maximum ADI		mg/kg-d					Acceptable Daily	/ Intake			
CEDIADI, ADI		mg/kg-d					Acceptable Daily	/ Intake			
ITER, TDI	0.0014	mg/kg-d	2000	Heart			Tolerable Daily I LOAEL = 0.04 m		s cited in ATSDR, 1992; UF = 30; human study; RIVM; Basis		
Supplemental RfD-like value							Supplemental Da	ata			
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Eff	fect Level			
Supplemental NOEL		mg/kg-d					Supplemental Da	ata			
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observe	d Adverse Effect Level			
Supplemental LOAEL		mg/kg-d					Supplemental Da	ata			
HSDB Lowest Oral LD50		mg/kg									
CTDJPN Lowest Oral LD50		mg/kg									
RTECS Lowest Oral LD50		mg/kg									
Cancer Data				-							
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L									
RAISHE Slope Factor		(mg/kg-d) ⁻¹									
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹									
EPA Carcinogen classification											
IARC Carcinogen Classification	2B		1991					B: Evaluated as a group; cer risk data were identified	Cancer classifications were used for screening, but no related ed for potency scoring.		
Other Supporting Data											
Is contaminant on list of carcinogens?	Y	Y/N					IARC, CACART				
Is the contaminant on a list of reproductive toxins?		Y/N									
EPAHA-DWEL							Drinking Water E	Equivalent Level			
Health Reference Level (HRL) ²	70	ug/L									
Health Reference Level (HRL) ² cancer		ug/L									
¹ Bolded data indicate value was used in attribute s	coring										
² For the CCL process HRLs were calculated by co	nverting the RfD or of	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	lative Source Contrib	ution of 20%. For car	cinogens, the concentration	at the 10 ⁻⁶ cancer risk was used.		

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water	989	3	0.303	6.4	10.6	9.7	10.5	10.6	ug/L	
Ambient Water Occurrence Data										
NAWQA ambient water	3,297	782	23.7	0.007	684	0.22	3.91	53.2	ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	1,272	lbs/yr	17	States	2004					
TRI Release - total	786,491	lbs/yr	38	States	2004					
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (HRL/NIRS 90%)		Non-c	ancer: 6.67			Cance	r:			
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
		lbs/yr	2002							
Use	Use data are for o	cobaltous chloride	-	licines; as germicide (I	HSDB); naturally	-occurring				
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BST	assumed persistent; A	All use and env. f	ate data are for cobal	tous chloride; B	ST = biodegrades	sometimes/reca	alcitrant
K _{oc} , Organic Carbon Partition Coefficient		L/kg								
log K _{OW} , Octanol Water Partition Coeff.		unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant		unitless								
Water Solubility	534,200	mg/L								
% water PBT profiler										

Contaminant	Cumene hydrop	eroxide]		Attribute	Scores		3-model Categorical Prediction
Substance Key: Contaminant ID (CASRN):	2927 80159				Potency 4	Severity 9	Prevalence 8	Magnitude 8	L
Containinant ID (CASKN).	00133]	4	3	0	0	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									No water data
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose	•	
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose		
EPA HA RfD		mg/kg-d					Reference Dose	•	
RAISHE RfD		mg/kg-d					Reference Dose	•	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	vel	
JMPR, maximum ADI		mg/kg-d		Acceptable Daily Intake					
CEDIADI, ADI		mg/kg-d		Acceptable Daily Intake					
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value							Supplemental D	ata	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Ef	fect Level	
Supplemental NOEL		mg/kg-d					Supplemental D	ata	
RTECS Lowest Oral Chronic LOAEL	32.7	mg/kg-d		Mortality			(AIHA, 475 Wol		l; AlHAAP American Industrial Hygiene Association Journal. OH 44311) V.19- 1958- Volume(issue)/page/year
Supplemental LOAEL		mg/kg-d					Supplemental D	ata	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50	382	mg/kg					Oral study in rat	s	
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification									
Other Supporting Data			-		-				
Is contaminant on list of carcinogens?		Y/N							
Is the contaminant on a list of reproductive toxins?		Y/N							
EPAHA-DWEL							Drinking Water I	Equivalent Level	
Health Reference Level (HRL) ²	76.4	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
¹ Bolded data indicate value was used in attribute s	scoring								
² For the CCL process HRLs were calculated by co	onverting the RfD or o	ther dose to ug/L, a	ssuming 2 L/day of v	water consumed by a 70	Kg adult, and a Re	elative Source Contrib	ution of 20%. For car	cinogens, the concentration	at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	96	lbs/yr	1	States	2004					
TRI Release - total	443,772	lbs/yr	15	States	2004					
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (No water data)		Nor	n-cancer:			Cancer	r:			
Production	Amount Range	Units	Year							
CUSIUR Production Data	>100M - 500M	lbs/yr	1998							
COSIDR FIDUUCION Data	>100M - 500M	lbs/yr	2002							
Use	Industrial chemica	al (HSDB)								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BSA	BSA = Biodegrades S	lowly with Acclin	nation; PBT				
K _{oc} , Organic Carbon Partition Coefficient		L/kg								
log K _{OW} , Octanol Water Partition Coeff.	2.16	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	4.71E-08	atm-m3/mol								
Water Solubility	13,900	mg/L								
% water PBT profiler	25									

Cylindrospermopsin CCL 3 Contaminant Information Sheet

Contaminant:	Cylindrospermo	psin		1		Attribute	Scores			3-model Categorical Prediction
Substance Key:	81115				Potency	Severity	Prevalence	Magnitude		L?
Contaminant ID (CASRN):	143545908				8	3	5 Scores based on	10 supplemental da	ta	HRL Ratio(s)
HEALTH EFFECTS DATA ¹							Default Prevalence cyanotoxin surve	ce score based o		NC HRL/CyanoHABs MAX: ~0.0021
Non-cancer data	Value	Units	Date		Critical Effect					Notes
EPA OPP RfD		mg/kg-d					Reference Dose			
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose			
EPA HA RfD		mg/kg-d					Reference Dose			
RAISHE RfD		mg/kg-d					Reference Dose			
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Lev	el		
JMPR, maximum ADI		mg/kg-d					Acceptable Daily	Intake		
CEDIADI, ADI		mg/kg-d					Acceptable Daily	Intake		
ITER, TDI							Tolerable Daily Ir	ntake		
Supplemental RfD-like value	0.00003	mg/kg-d	2006	Increased kidney w	eight		Falconer. 2003.	Oral toxicity of t ation of no observe	he cyanobact	60 ug/kg-d; NOAEL 3 ug/kg-d. Humpage, A.R. and I.R. erial toxin cylindrospermopsin in male Swiss albino effect level for deriving a drinking water guideline
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Effe	ect Level		
Supplemental NOEL		mg/kg-d					Supplemental Da	ita		
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observed	d Adverse Effect I	_evel	
Supplemental LOAEL		mg/kg-d					Supplemental Da	ita		
HSDB Lowest Oral LD50		mg/kg								
CTDJPN Lowest Oral LD50		mg/kg								
RTECS Lowest Oral LD50		mg/kg								
Cancer Data	-			-						
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L								
RAISHE Slope Factor		(mg/kg-d) ⁻¹								
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹								
EPA Carcinogen classification										
IARC Carcinogen Classification										
Other Supporting Data										
Is contaminant on list of carcinogens?		Y/N								
Is the contaminant on a list of reproductive toxins?		Y/N								
EPAHA-DWEL							Drinking Water E	quivalent Level		
Health Reference Level (HRL) ²	0.21	ug/L								
Health Reference Level (HRL) ² cancer		ug/L								
¹ Bolded data indicate value was used in attribute s										
² For the CCL process HRLs were calculated by co	onverting the RfD or o	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70) Kg adult, and a Rel	ative Source Contrib	oution of 20%. For carc	cinogens, the conce	entration at the 1	0 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes		
Finished Water Occurrence Data												
UCMR finished water									ug/L			
NCOD Round 1 finished water									ug/L			
NCOD Round 2 finished water									ug/L			
NIRS finished water												
Ambient Water Occurrence Data												
NAWQA ambient water									ug/L			
NREC ambient surface water									ug/L	National Recon	naissance	
NREC ambient ground water									ug/L National Reconnaissance			
NREC ambient surface water									ug/L	National Aggreg	jate	
NREC ambient ground water									ug/L	National Aggreg	jate	
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes			
NCFAP Pesticide Application - total		lbs/yr		States								
TRI Release - surface water		lbs/yr		States								
TRI Release - total		lbs/yr		States								
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data	Notes			
CyanoHABs - The Florida Experience			Not Available		~100			ug/L	2000 Florida study			
UCMR 1 Meeting summary			Not Available		90			ug/L	Florida survey			
HRL Ratios (HRL/CyanoHABs MAX)	Non-cancer: ~0.0021				Cancer:							
Production	Amount Range	Units	Year									
CUSIUR Production Data		lbs/yr	1998									
		lbs/yr	2002									
Use	Cyanobacterial to	oxin										
Environmental Fate Parameters	Value	Units	Degradation Code	Notes								
T _{1/2} , Half life		length of time										
K _{OC} , Organic Carbon Partition Coefficient		L/kg										
log K _{OW} , Octanol Water Partition Coeff.		unitless										
Kd, Distribution coefficient		L/kg										
HLC, Henry's Law Constant		atm-m ³ /mol										
Water Solubility		mg/L										

Contaminant:	Dicrotophos]		Attribute	Scores		Γ	3-model Categorical Prediction
Substance Key:	6098			Potency Severity 7 5			Prevalence			L?
Contaminant ID (CASRN):	141662				7	5	8	6	-	HRL Ratio(s)
HEALTH EFFECTS DATA ¹										NC HRL/SWC EEC: 2.45
Non-cancer data	Value	Units	Date		Critical Effect				N	lotes
EPA OPP RfD	0.00007	mg/kg-d		Decreased plasma,	RBC & brain Ch	E activity	Reference Do	se; Basis = LOAEL 0.	.02 mg/kg-d; l	JF = 300.
EPA IRIS (ITER) RfD	0.0001	mg/kg-d	1986	Decreased body weig	Jht		Reference Dos	se		
EPA HA RfD		mg/kg-d					Reference Dos	se		
RAISHE RfD	0.0001	mg/kg-d					Reference Dos	se		
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk L	evel		
JMPR, maximum ADI		mg/kg-d					Acceptable Da	ily Intake		
CEDIADI, ADI		mg/kg-d					Acceptable Da	ily Intake		
ITER, TDI							Tolerable Daily	/ Intake		
Supplemental RfD-like value							Supplemental	Data		
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed I	Effect Level		
Supplemental NOEL		mg/kg-d					Supplemental	Data		
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observ	ved Adverse Effect Lev	rel	
Supplemental LOAEL		mg/kg-d					Supplemental	Data		
HSDB Lowest Oral LD50		mg/kg								
CTDJPN Lowest Oral LD50		mg/kg								
RTECS Lowest Oral LD50	11	mg/kg		Details of toxic effects value	s not reported oth	er than lethal dose		le to the Chemicals Use Volume(issue)/page/y		tection. (Information Canada, 171 Slater St., Ottawa, 3
Cancer Data										
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L								
RAISHE Slope Factor		(mg/kg-d) ⁻¹								
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹								
EPA Carcinogen classification	Suggestive evidence						OPP; no quant	ification		
IARC Carcinogen Classification										
Other Supporting Data	<u> </u>			•						
Is contaminant on list of carcinogens?		Y/N								
Is the contaminant on a list of reproductive toxins?		Y/N								
EPAHA-DWEL							Drinking Wate	Equivalent Level		
Health Reference Level (HRL) ²	0.49	ug/L								
Health Reference Level (HRL) ² cancer		ug/L								
¹ Bolded data indicate value was used in attribute se	coring									
² For the CCL process HRLs were calculated by cor	overting the RfD or ot	her dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	elative Source Contrib	ution of 20%. For c	arcinogens, the concentra	ation at the 10	⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data						•				
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total	359,726	lbs/yr	13	States						
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	95% of Detects	Units for Mag data		Notes
PPMP ambient water		0	0		0		0	ug/L	Pesticide Pilot N	Nontoring Program (USGS/EPA); 2002
PPMP finished water		0	0		0		0	ug/L	2002	
OPP Estimated Environmental Concentration		Surface water cl	hronic: 0.2 ug/L			Ground water chronic	c: 0.005 ug/L			
	1									
HRL Ratios (HRL/SWC EEC)		Non-c	cancer: 2.45			Cance	r:			
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
		lbs/yr	2002							
Use	Insecticide (HSD	·	Degradation							
Environmental Fate Parameters	Value	Units	Code					Notes		-
T _{1/2} , Half life		length of time	BS	PBT; BS = Biodegrad	les Slowly					
K _{OC} , Organic Carbon Partition Coefficient	366.2	L/kg								-
log K _{OW} , Octanol Water Partition Coeff.	-0.49	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	5.05E-11	atm-m ³ /mol								
Water Solubility	1,000,000	mg/L								
% water PBT profiler	39									

Dicrotophos CCL 3 Contaminant Information Sheet

OCCURRENCE DATA¹

Contaminant:	Dimethipin			1		Attribute	Scores			3-model Categorical Prediction
	36818				Potency	Severity	Prevalence	Magnitude		L?
Contaminant ID (CASRN):	55290647				5	6	8	5		
										HRL Ratio(s)
HEALTH EFFECTS DATA ¹										NC HRL/GWC EEC: 1.55
Non-cancer data	Value	Units	Date		Critical Effect					Notes
EPA OPP RfD	0.0218	mg/kg-d	1986	Kidney, lungs, duoc heart, aortic artery & weight gain.			Reference Do	se; Basis = NOEL	_ 2.18 mg/kg-d	; UF = 100.
EPA IRIS (ITER) RfD	0.02	mg/kg-d		Increased absolute a	nd relative liver w	veight	Reference Dos	se		
EPA HA RfD		mg/kg-d					Reference Dos	se		
RAISHE RfD	0.02	mg/kg-d					Reference Dos	se		
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk L	evel		
JMPR, maximum ADI	0.02	mg/kg-d	1999				Acceptable Da	ily Intake		
CEDIADI, ADI		mg/kg-d					Acceptable Da	ily Intake		
ITER, TDI							Tolerable Dail	y Intake		
Supplemental RfD-like value							Supplemental	Data		
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed I	Effect Level		
Supplemental NOEL		mg/kg-d					Supplemental	Data		
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observ	ved Adverse Effect	t Level	
Supplemental LOAEL		mg/kg-d					Supplemental	Data		
HSDB Lowest Oral LD50		mg/kg								
CTDJPN Lowest Oral LD50		mg/kg								
RTECS Lowest Oral LD50		mg/kg								
Cancer Data										
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L								
RAISHE Slope Factor		(mg/kg-d) ⁻¹								
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹								
EPA Carcinogen classification	С		1987					ications were used otency scoring.	I for screening,	but no related quantitative cancer risk data were
IARC Carcinogen Classification										
Other Supporting Data										
Is contaminant on list of carcinogens?		Y/N								
Is the contaminant on a list of reproductive toxins?		Y/N								
EPAHA-DWEL				1			Drinking Wate	r Equivalent Level		
Health Reference Level (HRL) ²	153	ug/L								
Health Reference Level (HRL) ² cancer		ug/L								
¹ Bolded data indicate value was used in attribute sc	oring			•						
² For the CCL process HRLs were calculated by con	verting the RfD or ot	her dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	elative Source Contribu	tion of 20%. For c	arcinogens, the cond	centration at the	10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total	282,458	lbs/yr	14	States	1997					
TRI Release - surface water	0	lbs/yr	0	States	2004					
TRI Release - total	250	lbs/yr	1	States	2004					
Supplemental Water Data										
OPP Estimated Environmental Concentration		Surface water ch	nronic: 7.3 ug/L			Ground water chronic	c: 99 ug/L			
	-									
HRL Ratios (HRL/GWC EEC)		Non-c	ancer: 1.55			Cance	r:			
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
COSIDIC FIGUREION Data		lbs/yr	2002							
Use	Herbicide; plant g	rowth regulator (I	HSDB)							
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BSA	BSA = biodegrades sl	owly with acclim	ation; PBT				
K _{oc} , Organic Carbon Partition Coefficient	27.41	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	-0.17	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	2.30E-11	atm-m ³ /mol								
Water Solubility	4,600	mg/L								
% water PBT profiler	46									

Contaminant:	Dimethoate 2413]	Potensy		e Scores	Magnituda	3-model Categorical Prediction			
Substance Key: Contaminant ID (CASRN):	2413 60515			-	Potency 6	Severity 5	Prevalence 10	Magnitude 7	L? - L			
					-			•	HRL Ratio(s)			
HEALTH EFFECTS DATA ¹	-								NC HRL/SWC EEC: 0.655			
Non-cancer data	Value	Units	Date		Critical Effect				Notes			
EPA OPP RfD	0.0022	mg/kg-d	2007	Brain cholinesteras	e inhibition		Reference Dos	se; OPP RED				
EPA IRIS (ITER) RfD	0.0002	mg/kg-d	1988	Brain cholinesterase	inhibition		Reference Dose; Basis NOEL 0.05 mg/kg-d; UF = 100. American Cyanamid Co., 1986a					
EPA HA RfD		mg/kg-d					Reference Dos	e				
RAISHE RfD	0.0002	mg/kg-d					Reference Dos	e				
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Lo	evel				
JMPR, maximum ADI	0.002	mg/kg-d	1996				Acceptable Dai	ly Intake				
CEDIADI, ADI		mg/kg-d					Acceptable Dai	ly Intake				
ITER, TDI							Tolerable Daily	Intake				
Supplemental RfD-like value							Supplemental I	Data				
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	ffect Level				
Supplemental NOEL		mg/kg-d					Supplemental I					
RTECS Lowest Oral Chronic LOAEL	3	mg/kg-d		Blood - other changes induction, or change i cholinesterase			Medicine. (Brit		2-week study in rat; BJIMAG British Journal of Industrial 30B, Kennebunkport, ME 04046) V.1- 1944-			
Supplemental LOAEL		mg/kg-d					Supplemental I	Data				
HSDB Lowest Oral LD50		mg/kg										
CTDJPN Lowest Oral LD50		mg/kg										
RTECS Lowest Oral LD50		mg/kg										
Cancer Data												
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L										
RAISHE Slope Factor		(mg/kg-d) ⁻¹										
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹										
EPA Carcinogen classification	С		2006				OPP					
IARC Carcinogen Classification												
Other Supporting Data		-										
Is contaminant on list of carcinogens?		Y/N										
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Teratogen			UMD					
EPAHA-DWEL							Drinking Water	Equivalent Level				
Health Reference Level (HRL) ²	15.4	ug/L										
Health Reference Level (HRL) ² cancer		ug/L										
¹ Bolded data indicate value was used in attribute s												
² For the CCL process HRLs were calculated by co	nverting the RfD or c	other dose to ug/L, a	assuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	lative Source Contril	oution of 20%. For ca	arcinogens, the concentration a	at the 10 ⁻⁶ cancer risk was used.			

Dimethoate CCL 3 Contaminant Information Sheet OCCURRENCE DATA¹

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data						•	•	•		
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total	1,896,947	lbs/yr	44	States	1997					
TRI Release - surface water	2,615	lbs/yr	2	States	2004					
TRI Release - total	31,480	lbs/yr	4	States	2004					
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	95% of Detects	Units for Mag data		Notes
PPMP ambient water		4	1.3		0.022			ug/L	Pesticide Pilot I	Nontoring Program (USGS/EPA)
PPMP finished water								ug/L		
	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	Units for Mag data		Notes
CAL DHS	7,238	0	0					ug/L	Drinking water i http://www.cdpł ts.aspx	nonitoring; ca.gov/certlic/drinkingwater/Pages/Chemicalcontaminan
STORET	890	14	1.57	0.055	0.21	0.148	0.198	ug/L		
OPP Estimated Environmental Concentration		Surface water c	hronic: 23.5 ug/L			Ground water chronic	c: 0.044 ug/L			
HRL Ratios (HRL/SWC EEC)		Non-c	ancer: 0.655			Cance	er:			
Production	Amount Range	Units	Year							
		lbs/yr	1998							
CUSIUR Production Data		lbs/yr	2002							
Use	Pesticide (NTP)									
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life	8	weeks		BSA = biodegrades s	lowly with acclim	ation				
K _{OC} , Organic Carbon Partition Coefficient	5.2-36	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	0.78	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	2.43E-10	atm-m ³ /mol								
Water Solubility	23,800	mg/L								
% water PBT profiler	36									
	•									

Contaminant:	Disulfoton			1		Attribute	Scores			3-model Categorical Prediction		
Substance Key:	6423			Potency Severity 7 5			Prevalence	Magnitude		NL		
Contaminant ID (CASRN):	298044				7	5	1	1		HRL Ratio(s)		
HEALTH EFFECTS DATA ¹										NC HRL/NAWQA 90%: 1.1		
Non-cancer data	Value	Units	Date		Critical Effect				N	otes		
EPA OPP RfD	0.00013	mg/kg-d	2002	Plasma, RBC, brain	& corneal ChE in	hibition	Reference Dose; Basis = NOAEL 0.013 mg/kg-d; UF = 100.					
EPA IRIS (ITER) RfD	0.00004	mg/kg-d	1986				Reference Dose;	Basis = LOAEL 0.04	mg/kg-d; UF = ´	1,000.		
EPA HA RfD	0.0001	mg/kg-d	2006				Reference Dose					
RAISHE RfD	0.00004	mg/kg-d					Reference Dose					
ATSDR (ITER), MRL	0.00006	mg/kg-d	08/1995				Minimal Risk Leve	1				
JMPR, maximum ADI	0.0003	mg/kg-d	1991				Acceptable Daily I	ntake				
CEDIADI, ADI		mg/kg-d					Acceptable Daily I	ntake				
ITER, TDI							Tolerable Daily Int	ake				
Supplemental RfD-like value							Supplemental Dat	а				
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Effe	ct Level				
Supplemental NOEL		mg/kg-d					Supplemental Dat	а				
RTECS Lowest Oral Chronic LOAEL	0.06	mg/kg-d		Brain and Coverings other changes, Bioch or change in blood or	nemical - Enzyme i	nhibition, induction,	Inc., 1 E. First St.,		V.1-40, 1981-97	lamental and Applied Toxicology. (Academic Press, . For publisher information, see TOSCF2		
Supplemental LOAEL		mg/kg-d					Supplemental Dat	a, ITER				
HSDB Lowest Oral LD50		mg/kg										
CTDJPN Lowest Oral LD50		mg/kg										
RTECS Lowest Oral LD50		mg/kg										
Cancer Data												
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L										
RAISHE Slope Factor		(mg/kg-d) ⁻¹										
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹										
EPA Carcinogen classification	E						Cancer classificat potency scoring.	ions were used for so	creening, but no	related quantitative cancer risk data were identified for		
IARC Carcinogen Classification												
Other Supporting Data												
Is contaminant on list of carcinogens?		Y/N										
Is the contaminant on a list of reproductive toxins?		Y/N										
EPAHA-DWEL	0.0035	mg/L	2006				Drinking Water Ec	uivalent Level				
Health Reference Level (HRL) ²	0.91	ug/L										
Health Reference Level (HRL) ² cancer		ug/L										
¹ Bolded data indicate value was used in attribute s	coring											
² For the CCL process HRLs were calculated by co	nverting the RfD or o	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70	Kg adult, and a Rel	ative Source Contributio	on of 20%. For carcino	gens, the concentration	n at the 10 ⁻⁶ can	cer risk was used.		

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes		
Finished Water Occurrence Data												
UCMR finished water	300	0	0	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	ug/L			
NCOD Round 1 finished water									ug/L			
NCOD Round 2 finished water									ug/L			
NIRS finished water												
Ambient Water Occurrence Data												
NAWQA ambient water	7,118	17	0.24	0.002	3.81	0.02	0.826	3.81	ug/L			
NREC ambient surface water									ug/L	National Reconnaissance		
NREC ambient ground water									ug/L	National Reconnaissance		
NREC ambient surface water									ug/L	National Aggregate		
NREC ambient ground water									ug/L	National Aggregate		
Application/Release	Amount Released	Units	Number of States	Units	Year		I		Notes	•		
NCFAP Pesticide Application - total	1,196,066	lbs/yr	33	States	States 1997							
TRI Release - surface water		lbs/yr		States	States							
TRI Release - total		lbs/yr		States								
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects Maximum value of Detects Median value of Detects 95% of Detects Units for Mag data Notes								
PPMP ambient water		0	0		Not Detected		Not Detected		Pesticide Pilot N	Aontoring Program (USGS/EPA); 2002		
PPMP finished water		0	0		Not Detected		Not Detected		2002			
								•				
HRL Ratios (HRL/NAWQA 90%)		Non-o	cancer: 1.1			Cano	cer:					
Production	Amount Range	Units	Year									
		lbs/yr	1998									
CUSIUR Production Data		lbs/yr	2002									
Use	Insecticide (HSDE	3)										
Environmental Fate Parameters	Value	Units	Degradation Code					Notes				
T _{1/2} , Half life	7-41	days		BS = Biodegrades SI	owly							
K _{oc} , Organic Carbon Partition Coefficient	684-14,013	L/kg										
log K _{ow} , Octanol Water Partition Coeff.	4.02	unitless										
Kd, Distribution coefficient	1	L/kg										
HLC, Henry's Law Constant	2.20E-06	atm-m ³ /mol										
Water Solubility	16.3	mg/L										
% water PBT profiler	17											

<table-container> Bademann (Network) Petrong Service (Network) Note (Network) Bademann (Network) Note (Network) Note (Network) Note (Network) Bademann (Network) Note (Network) Note (Network) Note (Network) Note (Network) Statistical (Network) Note (Network) Note (Network) Note (Network) Note (Network) Statistical (Network) Note (Network) Note (Network) Note (Network) Note (Network) Statistical (Network) Note (Network) Note (Network) Note (Network) Note (Network) Statistical (Network) Note (Network) Note (Network) Note (Network) Note (Network) Statistical (Network) Note (Network) Note (Network) Note (Network) Note (Network) Statistical (Network) Note (Network) Note (Network) Note (Network) Note (Network) Statistical (Network) Note (Network) Note (Network) Note (Network) Note (Network) Statistical (Network) Note (Network) Note (Network) Note (Network) Note (Network) Statistical (Network) Note (Network)</table-container>	Contaminant:	Diuron]		Attribute	Scores		3-model Categorical Prediction		
Catalana Catala Catala A A A A A A B]		Severity	Prevalence				
HALH DEFECT DATA' Vite Main Orac Charlange of the second of the s	Contaminant ID (CASRN):	330541				6	4	4	7			
FA OP FID 0.03 mg/kg.d Memolycic anenia & componentory trensporters (dccasade oryfnorsyte cont, humplight land, at dccasade oryfnorsyte cont, humplight land, at dccasade oryfnorsyte cont, humplight land, at dccasade oryfnorsyte cont, humplight land, at SPR (TEP) Reference Does; die Pont, 1964; Basis * LOAEL 1.0 mg/kg.d; UF = 30. PAR-HE RD 0.03 mg/kg.d 100 Reference Does; die Pont, 1964; Basis * LOAEL 1.0 mg/kg.d; UF = 30. RAMEE RD 0.032 mg/kg.d 2006 Reference Does; die Pont, 1964; Basis * LOAEL 1.0 mg/kg.d; UF = 30. RAMEE RD 0.032 mg/kg.d 100 Reference Does; die Pont, 1964; Basis * LOAEL 1.0 mg/kg.d; UF = 30. RAMEE RD 0.032 mg/kg.d 100 Reference Does; die Pont, 1964; Basis * LOAEL 1.0 mg/kg.d; UF = 304. RAMEE RD 0.032 mg/kg.d 100 Reference Does; die Pont, 1964; Basis * LOAEL 1.0 mg/kg.d; UF = 304. REFER TD 0.032 mg/kg.d 100 Reference Does; die Pont, 1964; Bisis # DoeB 1.0 mg/kg.d; UF = 304. REFER TD 0.032 mg/kg.d 100 Reference Does; die Pont, 1964; Referenc	HEALTH EFFECTS DATA ¹									NC HRL/UCMR 90%: 10		
Per NameNumberNum	Non-cancer data	Value	Units	Date		Critical Effect				Notes		
PAN RD0.0030.0040.0040.0050.0040.0060.0060.006AISM RD0.0020.0040.	EPA OPP RfD	0.003	mg/kg-d					Reference Dose; du Pont, 1964a; Basis = LOAEL 1.0 mg/kg-d; UF = 300.				
Markin RD Output marked Image	EPA IRIS (ITER) RfD	0.002	mg/kg-d	1987				Reference Dose	e; Basis NOEL 0.625 mg	g/kg-d		
ATBOR (TER), MRL Implied Implied Minimal Risk Lavel AURP, maximum ADI mg/kg-d Implied Acceptable Daily Intake GENIAO, ADI mg/kg-d Implied Acceptable Daily Intake GENIAO, ADI Implied Implied Acceptable Daily Intake Supplemental RD-Bite value Implied Implied Acceptable Daily Intake Supplemental RD-Bite value Implied Implied Supplemental Daila Supplemental RD-Bite value Implied Implied Supplemental Daila Supplemental RD-Bite value Implied Implied Supplemental Daila Supplemental RD-Bite value Implied Implied Implied Supplemental RD-Bite Value	EPA HA RfD	0.003	mg/kg-d	2006				Reference Dose	9			
MPR, maximum AD1Implicitmg/kgdImplicitAcceptable Daily IndukeCEDIADI, ADII.mg/kgdI.Acceptable Daily IndukeCEDIADI, ADII.I.I.Acceptable Daily IndukeSupplemental RD-like valueI.I.I.Supplemental DataSupplemental RD-like valueI.mg/kgdI.No Observed Effect LevelSupplemental NOELI.mg/kgdI.Supplemental DataSupplemental NOELI.mg/kgdI.Supplemental DataSupplemental NOELI.mg/kgdI.Supplemental PD BiologicSupplemental NOELI.mg/kgdI.Biodri-tenegel is neuro corrosition (G. D. P. D. BiologicSupplemental NOELI.mg/kgdI.Biodri-tenegel is neuro corrosition (G. D. D. D. Supplemental DataSupplemental LOAELI.mg/kgdI.Biodri-tenegel is neuro corrosition (G. D. Supplemental DataSupplemental LOAELI.mg/kgdI.Supplemental DataSupplemental LOAELI.mg/kgdI.Supplemental DataSupplemental DataI.mg/kgdI.Supplemental DataCTDJ/NL Nowed Oral LDS0I.mg/kgdI.Supplemental DataSupplemental DAtaI.mg/kgdI.Supplemental DataCTDJ/NL Nowed Oral LDS0I.mg/kgdI.I.Supplemental DataI.mg/kgdI.I.CTDJ/NL Nowed Oral LDS0I.mg/kgdI.I.Supplemental Data	RAISHE RfD	0.002	mg/kg-d					Reference Dose	9			
GENDAD, ADImg kgdMg kgdMg kgdMg kgdAcceptable Daly InduicTER, To'1111ComparisonTolerable Daly InduicSuppernental RD-Ne value1mg kgd1Suppernental RD-Ne valueSuppernental RD-Ne valueSuppernental RD-Ne value1mg kgd1Suppernental RD-Ne valueSuppernental RD-Ne valueSuppernental NCEL1mg kgd1Suppernental RD-Ne valueSuppernental RD-Ne valueSuppernental NCEL1.175mg kgd1Suppernental DataSuppernental NCEL1.175mg kgdSuppernental DataSuppernental DataSuppernental NCEL1.175mg kgdSuppernental DataSuppernental DataSuppernental NCEL1.175mg kgdSuppernental DataSuppernental DataSuppernental NCEL1.175mg kgdISuppernental DataSuppernental NCEL1.175mg kgdISuppernental DataSuppernental NCEL1.175mg kgdIISuppernental NCEL1.175mg kgd <t< td=""><td>ATSDR (ITER), MRL</td><td></td><td>mg/kg-d</td><td></td><td></td><td></td><td></td><td>Minimal Risk Le</td><td>evel</td><td></td></t<>	ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	evel			
TER, TDI,Image	JMPR, maximum ADI		mg/kg-d					Acceptable Dail	ly Intake			
Supplemental RB-like valueNoticeSupplemental RB-like valueNoticeSupplemental DataCTUPN Highest Chronic NOEL10.00mgkqd10.00NoticeSupplemental DataSupplemental NOEL10.00mgkqd10.00Supplemental DataSupplemental DataRTECS Lowest Oral Chronic LOAEL17.50mgkqd10.00Supplemental DataSupplemental DataSupplemental LOAEL10.00mgkqd10.00Supplemental DataSupplemental DataSupplemental LOAEL10.0010.00Supplemental DataSupplemental DataSupplemental DataSupplemental LOAEL10.0010.0010.00Supplemental DataSupplemental DataSupplemental LOAEL10.0010.0010.00Supplemental DataSupplemental DataSupplemental LOAEL10.0010.0010.00Supplemental DataSupplemental DataSupplemental Data10.0010.00	CEDIADI, ADI		mg/kg-d					Acceptable Dail	ly Intake			
The second sec	ITER, TDI							Tolerable Daily	Intake			
OOOOOOSupplemental NOEL(m)mg/kg-d(m)Supplemental DataSupplemental LOAEL1.1.75mg/kg-d(m)Biodic-straininges in serum composition (e.g. TP. binchindi bervame inhibition, induction, or change in biood of tessCovert Odserved Adverse Effect Level. 30-day study in rat; TXAPA9 Toxicology and Applied Prammaciogy. (Academic Press, inc. 1 E. First St., Dukth, MK 55602) v1. 1969-Supplemental LOAEL1mg/kg-dISupplemental DataSupplemental LOAEL1mg/kg-dISupplemental DataStop Lowest Oral LD501mg/kg-dIISupplemental DataCTD.PN Lowest Oral LD501mg/kg-dIIIRTECS Lowest Oral LD501mg/kg-dIIIPA Lifetim Cancer Risk, 10 ⁴ 1mg/kg-dIIIPA Lifetim Cancer Risk, 10 ⁴ 0.011mg/kg-dIIIPA Lifetim Cancer Risk, 10 ⁴ 0.0191(mg/kg-d)IIIIPA Lifetim Cancer Risk, 10 ⁴ 0.011mg/kg-dIIIIPA Lifetim Cancer Risk, 10 ⁴ 0.011IIIIIIPA Lifetim Cancer Risk, 10 ⁴ 0.011IIIIIIPA Lifetim Cancer Risk, 10 ⁴ 11IIIIIPA Lifetim Cancer Risk, 10 ⁴ 0.011IIIIIIIPA Lifetim Cancer Risk, 10 ⁴ <	Supplemental RfD-like value							Supplemental D	Data			
RTECS Lowest Oral Chronic LOAEL 1.75 ng/kg-d Bioder -changes in learner anomposition (e.g. The Publicular) index stranges in line (e.g. The Publicular) bedrest Oral LOAEL Lowest Observed Adverse Effect Level: 30-day study in rat: TXAPA9 Toxicology and Applied Program Intibition induction, or change in blood or tissus browles - transaminases Lowest Observed Adverse Effect Level: 30-day study in rat: TXAPA9 Toxicology and Applied Program Toxicology (Academic Press, Inc., 1 E. First SI, Duluh, INN 55802) V.1. 1959- Volume (Stavby Bageyser 36, 76, 1990 Supplemental LOAEL Imp kg Imp kg Imp kg Supplemental Data HSDB Lowest Oral LD50 Imp kg Imp kg Imp kg Imp kg Supplemental Data CTDJPN Lowest Oral LD50 Imp kg Imp kg Imp kg Imp kg Imp kg Supplemental Data CTDJPN Lowest Oral LD50 Imp kg Imp kg Imp kg Imp kg Imp kg Supplemental Data CTDJPN Lowest Oral LD50 Imp kg Imp kg Imp kg Imp kg Imp kg Supplemental Data CTDJPN Lowest Oral LD50 Imp kg Imp kg <t< td=""><td>CTDJPN Highest Chronic NOEL</td><td></td><td>mg/kg-d</td><td></td><td></td><td></td><td></td><td>No Observed E</td><td>ffect Level</td><td></td></t<>	CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	ffect Level			
RTEGS Lovest Oral Chonic LOAEL 1.75 mg/kg-d cholesterol, Liver- values in biood, ricknages in liver weight, Biochemical Browne Markets Chell Cale and Structures (Soucher Landers), Chell Cale and Structures, C	Supplemental NOEL		mg/kg-d					Supplemental D	Data			
Abbit HSDB Lowest Oral LD50Image mg/kgImage 	RTECS Lowest Oral Chronic LOAEL	1.75	mg/kg-d		cholesterol), Liver - c Enzyme inhibition, in	hanges in liver we duction, or change	eight, Biochemical -	Pharmacology.	(Academic Press, Inc.,			
CDUPN Lowest Oral LD50 Image	Supplemental LOAEL		mg/kg-d					Supplemental D	Data			
RTECS Lowest Oral LD50Imp <td>HSDB Lowest Oral LD50</td> <td></td> <td>mg/kg</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	HSDB Lowest Oral LD50		mg/kg									
Cancer Data No. 0	CTDJPN Lowest Oral LD50		mg/kg									
EPA Lifetime Cancer Risk, 10 ⁴ Img/L	RTECS Lowest Oral LD50		mg/kg									
EPA OPP Slope Factor0.0191(mg/kg-d)^12003Image: Construction of the state of the st	Cancer Data											
OEHHA Slope Factor (oral)Img/kg-dy ⁻¹ Img/kg-dy ⁻¹ <td>EPA Lifetime Cancer Risk, 10⁻⁴</td> <td></td> <td>mg/L</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L									
EPA Carcinogen classification Known/Likely 2003 Cancer classification swere used for screening, but no related quantitative cancer risk data were identified for potency scoring. IARC Carcinogen Classification Image: Cancer classification sere used for screening, but no related quantitative cancer risk data were identified for potency scoring. Other Supporting Data Image: Cancer classification sere used for screening, but no related quantitative cancer risk data were identified for potency scoring. Is contaminant on list of carcinogens? Y Y/N Image: Cancer classification sere used for screening, but no related quantitative cancer risk data were used for screening. Is the contaminant on a list of reproductive toxins? Y Y/N Image: Cancer classification sere used for screening. Multiple cancer classification sere used for screening. Dut no related quantitative cancer risk data were identified for potency scoring. EPA carcinogen Classification Y Y/N Image: Cancer classification sere used for screening. Dut no related quantitative cancer risk data were identified for potency scoring. Is contaminant on a list of reproductive toxins? Y Y/N Teratogen UMD EPAHA-DWEL 0.1 mg/L 2006 Drinking Water Equivalent Level Health Reference Level (HRL) ² cancer 1.83 ug/L Multiplicancer Multiplicancer	EPA OPP Slope Factor	0.0191	(mg/kg-d) ⁻¹	2003								
EPA Carcinogen classification Known/Likely 2003 Indext Control of the strength of the strengt of the strength of the strength of the strength of t	OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹									
Other Supporting Data Y Y/N M M Featogen EPA, CACART Is contaminant on list of carcinogens? Y Y/N Teratogen UMD EPAHA-DWEL 0.1 mg/L 2006 Drinking Water Equivalent Level Health Reference Level (HRL) ² cancer 1.83 ug/L Image: Monthead of the second sec	EPA Carcinogen classification	Known/Likely		2003						reening, but no related quantitative cancer risk data were		
Is contaminant on list of carcinogens? Y Y/N EPA, CACART Is the contaminant on a list of reproductive toxins? Y Y/N Teratogen UMD EPAHA-DWEL 0.1 mg/L 2006 Drinking Water Equivalent Level Health Reference Level (HRL) ² cancer 1.83 ug/L Image: Contaminant on a list of reproductive toxins (HRL) ² cancer Image: Contaminant on a list of reproductive toxins (HRL) ² cancer 1.83 ug/L Image: Contaminant on a list of reproductive toxins (HRL) ² cancer Image: Contaminant on a list of reproductive toxins (HRL) ² cancer Image: Contaminant on a list of reproductive toxins (HRL) ² cancer Image: Contaminant on a list of reproductive toxins (HRL) ² cancer Image: Contaminant on a list of reproductive toxins (HRL) ² cancer Image: Contaminant on a list of reproductive toxins (HRL) ² cancer Image: Contaminant on a list of reproductive toxins (HRL) ² cancer Image: Contaminant on a list of reproductive toxins (HRL) ² cancer Image: Contaminant on a list of reproductive toxins (HRL) ² cancer Image: Contaminant on a list of reproductive toxins (HRL) ² cancer Image: Contaminant on a list of reproductive toxins (HRL) ² cancer Image: Contaminant on a list of reproductive toxins (HRL) ² cancer Image: Contaminant on a list of reproductive toxins (HRL) ² cancer Image: Contaminant on a list of reproductive toxins (HRL) ² cancer Image: Contaminant on a list of reproductive toxins (HRL) ² cancer Image: Contamina	IARC Carcinogen Classification											
Is the contaminant on a list of reproductive toxins? Y Y/N Teratogen UMD EPAHA-DWEL 0.1 mg/L 2006 Drinking Water Equivalent Level Health Reference Level (HRL) ² cancer 1.83 ug/L Image: Contaminant on a list of reproductive toxins and	Other Supporting Data											
toxins? Y Y/N Telalogen OND EPAHA-DWEL 0.1 mg/L 2006 Drinking Water Equivalent Level Health Reference Level (HRL) ² cancer 1.83 ug/L C C		Y	Y/N					EPA, CACART				
Health Reference Level (HRL) ² ancer 1.83 ug/L		Y	Y/N		Teratogen			UMD				
Health Reference Level (HRL) ² cancer 1.83 ug/L	EPAHA-DWEL	0.1	mg/L	2006				Drinking Water	Equivalent Level			
	Health Reference Level (HRL) ²	21	ug/L									
¹ Bolded data indicate value was used in attribute scoring	Health Reference Level (HRL) ² cancer	1.83	ug/L									
	¹ Bolded data indicate value was used in attribute s	coring										

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water	298	1	0.34	2.1	2.1	2.1	2.1	2.1	ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water	4,552	319	7.00	0.0004	23.3	0.09	0.915	8.4	ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total	4,370,448	lbs/yr	39	States	1997					
TRI Release - surface water	10	lbs/yr	2	States	2004					
TRI Release - total	798	lbs/yr	5	States	2004					
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	95% of Detects	Units		Notes
PDP finished water	270	1	0.4	0.058	0.058			ug/L		
PPMP ambient water		117	37.5		0.54		0.319	ug/L	Pesticide Data F	Program (USDA); 2002
PPMP finished water		13	5.8		0.079		0.079	ug/L		
HRL Ratios (HRL/UCMR 90%)		Non-	cancer: 10			Cancer: 0	.871			
Production	Amount Range	Units	Year							
CUSIUR Production Data	>1M - 10M	lbs/yr	1998							
		lbs/yr	2002							
Use	Herbicide (HSDB									
Environmental Fate Parameters	Value	Units	Degradation code					Notes		
T _{1/2} , Half life		months	BST	BST = biodegrades s	ometimes/recalci	trant				
K _{OC} , Organic Carbon Partition Coefficient	224-879	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	2.68	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	5.8E-10	atm-m ³ /mol								
Water Solubility	36.4	mg/L								
% water PBT profiler	15									

Contaminant:	Equilenin			1		Attribute	Scores		3-model Categorical Prediction
Substance Key:	81750				Potency	Severity	Prevalence	Magnitude	L?-L
Contaminant ID (CASRN):	517099			J	7	6	9	5	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									NC HRL/Kolpin MAX: 1.26
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose	9	
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose	9	
EPA HA RfD		mg/kg-d					Reference Dose	9	
RAISHE RfD		mg/kg-d					Reference Dose	9	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	evel	
JECFA ADI	0.00005	mg/kg-d	1999	Estrogenic hormon women	al response in p	ost-menopausal	Acceptable Da	ily Intake for E2	
CEDIADI, ADI		mg/kg-d					Acceptable Dail	y Intake	
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value							Supplemental D	Data	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Et	ffect Level	
Supplemental NOEL		mg/kg-d					Supplemental D	Data	
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observe	ed Adverse Effect Level	
Supplemental LOAEL		mg/kg-d					Supplemental D	Data	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?		Y/N							
Is the contaminant on a list of reproductive toxins?		Y/N							
EPAHA-DWEL		mg/L					Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²	0.35	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
¹ Bolded data indicate value was used in attribute s	coring								
² For the CCL process HRLs were calculated by co	nverting the RfD or o	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70) Kg adult, and a Re	elative Source Contribu	ution of 20%. For ca	rcinogens, the concentration	at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	Units for Mag data		Notes
Kolpin, et al., 2002	70		2.8		0.278	0.14				ce Water Reconnaissance; Kolpin, et al., 2002. Env. , 36(6), pp. 1202-1211.
									T	
HRL Ratios (HRL/Kolpin MAX)		Non-c	ancer: 1.26			Cancer	r:			
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
		lbs/yr	2002							
Use	Pharmaceutical,	hormone								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		days								
K _{OC} , Organic Carbon Partition Coefficient		L/kg								
log K_{OW} , Octanol Water Partition Coeff.	3.93	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant		atm-m ³ /mol								
Water Solubility	1.52	mg/L								
% water PBT profiler										

Contaminant:	Equilin			1		Attribute	Scores		3-model Categorical Prediction
Substance Key:	81748]	Potency	Severity	Prevalence	Magnitude	L?-L
Contaminant ID (CASRN):	474862				7	6	8	5	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									NC HRL/Kolpin MAX: 2.38
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose	9	
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose	9	
EPA HA RfD		mg/kg-d					Reference Dose	9	
RAISHE RfD		mg/kg-d					Reference Dose	9	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	vel	
JECFA ADI	0.00005	mg/kg-d	1999	Estrogenic hormon women	al response in po	ost-menopausal	Acceptable Da	ily Intake for E2	
CEDIADI, ADI		mg/kg-d					Acceptable Dail	y Intake	
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value							Supplemental D	lata	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Ef	ffect Level	
Supplemental NOEL		mg/kg-d					Supplemental D	lata	
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observe	ed Adverse Effect Level	
Supplemental LOAEL		mg/kg-d					Supplemental D	vata	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?		Y/N							
Is the contaminant on a list of reproductive toxins?		Y/N							
EPAHA-DWEL		mg/L					Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²	0.35	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
¹ Bolded data indicate value was used in attribute so	coring								
² For the CCL process HRLs were calculated by con	nverting the RfD or of	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70) Kg adult, and a Re	lative Source Contrib	oution of 20%. For ca	rcinogens, the concentration	at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	Units for Mag data		Notes
Kolpin, et al., 2002	70		1.4		0.147	0.147		ug/L		ce Water Reconnaissance; Kolpin, et al., 2002. Env. ., 36(6), pp. 1202-1211.
HRL Ratios (HRL/Kolpin MAX)		Non-c	ancer: 2.38			Cancer	r:			
Production	Amount Range	Units	Year							
		lbs/yr	1998							
CUSIUR Production Data		lbs/yr	2002							
Use	Pharmaceutical,	hormone								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life	38	days	BSA	BSA = Biodegrades s	lowly with acclim	ation				
K _{OC} , Organic Carbon Partition Coefficient		L/kg								
log K _{OW} , Octanol Water Partition Coeff.	3.35	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant		atm-m ³ /mol								
Water Solubility	1.41	mg/L								
% water PBT profiler	13									

Contaminant:	Erythromycin]		Attribute	Scores		3-model Categorical Prediction
Substance Key:	75632				Potency	Severity	Prevalence	Magnitude	NL?
Contaminant ID (CASRN):	114078			l	6	3	10	4	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									NC HRL/NREC MAX: 2.88
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose		
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose		
EPA HA RfD		mg/kg-d					Reference Dose		
RAISHE RfD		mg/kg-d					Reference Dose		
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Lev	vel	
JECFA ADI	0.0007	mg/kg-d	2006	Inhibition of benefic	cial gastrointesti	nal bacteria	Acceptable Dail	ly Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Daily	/ Intake	
ITER, TDI							Tolerable Daily I	ntake	
Supplemental RfD-like value							Supplemental Da	ata	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Eff	fect Level	
Supplemental NOEL		mg/kg-d					Supplemental Da	ata	
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observe	d Adverse Effect Level	
Supplemental LOAEL	66.7	mg/kg-d					Supplemental Da	ata; Maximum Recomme	nded Daily Dose (MRDD)
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?		Y/N							
Is the contaminant on a list of reproductive toxins?	Y	Y/N					UMD		
EPAHA-DWEL		mg/L					Drinking Water E	Equivalent Level	
Health Reference Level (HRL) ²	4.9	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
¹ Bolded data indicate value was used in attribute se	coring								
² For the CCL process HRLs were calculated by cor	nverting the RfD or of	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	elative Source Contribu	ution of 20%. For car	cinogens, the concentration	at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water	104	22	21.5		1.7	0.1			ug/L	National Reconnaissance
NREC ambient ground water	90	0	0.0	Not detected	Not detected	Not detected	Not detected	Not detected	ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	Units for Mag data		Notes
Focazio, et al., 2008					0.3				Drinking water r pp. 201-216.	nonitoring; Focazio, et al., 2008. Sci.Tot. Env. 402(2-3),
									r	
HRL Ratios (HRL/NREC MAX)		Non-c	ancer: 2.88			Cance	r:			
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
		lbs/yr	2002							
Use	Pharmaceutical,	antibiotic								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life	180	days	BST	BST = Biodegrades se	ometimes/recalci	itrant				
K _{oc} , Organic Carbon Partition Coefficient		L/kg								
log K _{ow} , Octanol Water Partition Coeff.	3.06	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	5.20E-29	atm-m ³ /mol								
Water Solubility		mg/L								
% water PBT profiler	6									

Contaminant:	Estradiol (17-bet	a estradiol)]		Attribute	Scores		3-model Categorical Prediction
Substance Key: Contaminant ID (CASRN):	2130 50282				Potency 8	Severity 8	Prevalence 10	Magnitude 5	L
Contaminant ID (CASKN):	50262			1	0	0	10	5	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									NC HRL/Kolpin MAX: 1.75 CAR HRL/Kolpin MAX: 0.0045
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dos	e	
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dos	e	
EPA HA RfD		mg/kg-d					Reference Dos	e	
RAISHE RfD		mg/kg-d					Reference Dos	e	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk L	evel	
JECFA ADI	0.00005	mg/kg-d	1999	Estrogenic hormonal	response in post-	-menopausal women	Acceptable Da	ily Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Da	ily Intake	
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value							Supplemental I	Data	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	Effect Level	
Supplemental NOEL		mg/kg-d					Supplemental I	Data	
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observ	ed Adverse Effect Level	
Supplemental LOAEL		mg/kg-d					Supplemental I	Data	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)	39	(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification	1								
Other Supporting Data									
Is contaminant on list of carcinogens?	Y	Y/N					IARC, CACAR	T, OEHHA	
Is the contaminant on a list of reproductive toxins?	Y	Y/N					UMD		
EPAHA-DWEL		mg/L					Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²	0.35	ug/L							
Health Reference Level (HRL) ² cancer	0.0009	ug/L							
¹ Bolded data indicate value was used in attribute s	coring								
² For the CCL process HRLs were calculated by co	nverting the RfD or o	ther dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70) Kg adult, and a Re	elative Source Contribu	tion of 20%. For ca	arcinogens, the concentration	n at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data	sampled		with detects	Delects	Detects	Detects	Delects		uala	
								[
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data	1			1				T		
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	Units for Mag data		Notes
Snyder, et al., 2007			0.0	Not detected	Not detected	Not detected	Not detected	ug/L	Pharmaceutical Water Works As	ng Water; Snyder, et al, 2007. Removal of EDCs and s in Drinking and Reuse Treatment Processes. American ssociation.
Snyder, et al., 2007					0.0064			ug/L		/ater; Snyder, et al, 2007. Removal of EDCs and s in Drinking and Reuse Treatment Processes. American ssociation.
Kolpin, et al., 2002	85		10.6		0.2	0.16		ug/L		ce Water Reconnaissance; Kolpin, et al., 2002. Env. ., 36(6), pp. 1202-1211.
HRL Ratios (HRL/Kolpin MAX)		Non-c	ancer: 1.75			Cancer: 0	.0045			
Production	Amount Range	Units	Year							
CUCUUD Draduction Data		lbs/yr	1998							
CUSIUR Production Data		lbs/yr	2002							
Use	Pharmaceutical,	hormone								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life	38	days	BSA	BSA = Biodegrades s	lowly with acclim	ation				
K _{oc} , Organic Carbon Partition Coefficient		L/kg								
log K _{OW} , Octanol Water Partition Coeff.	4.01	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	6.40E-11	atm-m ³ /mol								
Water Solubility	3.6	mg/L								
% water PBT profiler	11									

Contaminant:	Estriol]		Attribute			3-model Categorical Prediction
Substance Key:	75525				Potency	Severity	Prevalence	Magnitude	L?
Contaminant ID (CASRN):	50271				7	6	10	3	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									NC HRL/Kolpin MAX: 6.86
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose	2	
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose	9	
EPA HA RfD		mg/kg-d					Reference Dose	9	
RAISHE RfD		mg/kg-d					Reference Dose	9	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	evel	
JECFA ADI	0.00005	mg/kg-d	1999	Estrogenic hormon women	al response in po	ost-menopausal	Acceptable Da	ily Intake for E2	
CEDIADI, ADI		mg/kg-d					Acceptable Dail	y Intake	
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value							Supplemental D	Data	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	ffect Level	
Supplemental NOEL		mg/kg-d					Supplemental D	Data	
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observe	ed Adverse Effect Level	
Supplemental LOAEL		mg/kg-d					Supplemental D	Data	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?		Y/N							
Is the contaminant on a list of reproductive toxins?	Y	Y/N					UMD		
EPAHA-DWEL		mg/L					Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²	0.35	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
¹ Bolded data indicate value was used in attribute s	scoring								
² For the CCL process HRLs were calculated by co	onverting the RfD or c	ther dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	elative Source Contrib	ution of 20%. For ca	rcinogens, the concentration	at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data	1					I				
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	Units for Mag data		Notes
Snyder, et al., 2007			0.0	Not detected	Not detected	Not detected	Not detected	ug/L		ng Water; Snyder, et al, 2007. Removal of EDCs and s in Drinking and Reuse Treatment Processes. American ssociation.
Snyder, et al., 2007			0.0	Not detected	Not detected	Not detected	Not detected	ug/L		/ater; Snyder, et al, 2007. Removal of EDCs and s in Drinking and Reuse Treatment Processes. American ssociation.
Kolpin, et al., 2002	70		21.4		0.051	0.019				ce Water Reconnaissance; Kolpin, et al., 2002. Env. ., 36(6), pp. 1202-1211.
HRL Ratios (HRL/Kolpin MAX)		Non-c	ancer: 6.86	1		Cancer	r:			
Production	Amount Range	Units	Year						I	
		lbs/yr	1998							
CUSIUR Production Data		lbs/yr	2002							
Use	Pharmaceutical,	hormone		1		I				
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life	38	days		BSA = Biodegrades s	lowly with acclim	ation				
K _{OC} , Organic Carbon Partition Coefficient	1	L/kg								
log K _{ow} , Octanol Water Partition Coeff.	2.45	unitless								
Kd, Distribution coefficient	1	L/kg								
HLC, Henry's Law Constant	1.33E-12	atm-m ³ /mol								
Water Solubility	441	mg/L								
% water PBT profiler	17									

Estriol CCL 3 Contaminant Information Sheet OCCURRENCE DATA¹

Contaminant:	Estrone			1		Attribute	Scores		3-model Categorical Prediction
Substance Key:	2210				Potency	Severity	Prevalence	Magnitude	L?
Contaminant ID (CASRN):	53167			J	7	6	9	3	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									NC HRL/Swartz MAX: 2.92
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose	•	
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose		
EPA HA RfD		mg/kg-d					Reference Dose		
RAISHE RfD		mg/kg-d					Reference Dose	•	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	vel	
JECFA ADI	0.00005	mg/kg-d	1999	Estrogenic hormon women	al response in po	ost-menopausal	Acceptable Dai	ly Intake for E2	
CEDIADI, ADI		mg/kg-d					Acceptable Dail	y Intake	
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value							Supplemental D	ata	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Ef	fect Level	
Supplemental NOEL		mg/kg-d					Supplemental D	ata	
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observe	d Adverse Effect Level	
Supplemental LOAEL		mg/kg-d					Supplemental D	ata	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?	Y	Y/N					CACART		
Is the contaminant on a list of reproductive toxins?	Y	Y/N					UMD		
EPAHA-DWEL		mg/L					Drinking Water I	Equivalent Level	
Health Reference Level (HRL) ²	0.35	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
¹ Bolded data indicate value was used in attribute s	coring								
² For the CCL process HRLs were calculated by co	nverting the RfD or o	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	lative Source Contribu	ution of 20%. For car	cinogens, the concentration	at the 10 ⁻⁶ cancer risk was used.

OCCORRENCE DATA										
	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data			•			•	•			
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	l
NCFAP Pesticide Application - total	Released	lbs/yr	States	States						
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	Units for Mag data		Notes
Boyd, et al., 2003				Not detected	Not detected	Not detected	Not detected		Finished Drinkir 135-149.	ng Water; Boyd, et al, 2003. Sci. Tot. Env. 311(1-3): pp.
Snyder, 2008					0.002			ug/L	Disruptors and I	Vater; Snyder, et al, 2008. Removal of Endocrine Pharmaceuticals during Water Treatment. In: Fate of s in the Environmental and in Water Treatment Systems.
Kolpin, et al., 2002	70		7.1		0.112	0.027		ug/L		ce Water Reconnaissance; Kolpin, et al., 2002. Env. ., 36(6), pp. 1202-1211.
Swartz, et al., 2006					0.12			ug/L	Ambient Water 40(16): pp. 4894	(SW/GW); Swartz, et al., 2006. Env. Sci. & Technol. 4-4902.
HRL Ratios (HRL/Swartz MAX)		Non-o	cancer: 2.92			Cance	r:			
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
		lbs/yr	2002							
Use	Pharmaceutical,	hormone								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life	38	days	BSA	BSA = Biodegrades s	lowly with acclim	nation				
K _{oc} , Organic Carbon Partition Coefficient		L/kg								
log K _{OW} , Octanol Water Partition Coeff.	3.13	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	3.80E-10	atm-m ³ /mol								
Water Solubility	30	mg/L								
% water PBT profiler	13									

Estrone CCL 3 Contaminant Information Sheet OCCURRENCE DATA¹

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Ethinyl Estradiol CCL 3 Contaminant Information Sheet

Contaminant:	Ethinyl Estradio	l (17-alpha ethy	nyl estradiol)]		Attribute	Scores		3-model Categorical Prediction
Substance Key:	2327				Potency	Severity	Prevalence	Magnitude	L?
Contaminant ID (CASRN):	57636				8	3	10	4	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									NC HRL/Kolpin MAX: 0.337
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose	e	
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose	e	
EPA HA RfD		mg/kg-d					Reference Dose	e	
RAISHE RfD		mg/kg-d					Reference Dose	9	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	evel	
JMPR, maximum ADI		mg/kg-d					Acceptable Dail	ly Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Dai	ly Intake	
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value		mg/kg-d					Supplemental D	Data	
Supplemental RfD-like value		mg/kg-d					Supplemental D	Data	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	ffect Level	
Supplemental NOAEL	0.04	mg/kg-d	2001	Hematalogical effects	s		Supplemental D	Data; Maier and Hermann	n, 2001. Regulatory Toxicology and Pharmacology, 34, pp 53-61.
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observe	ed Adverse Effect Level	
Supplemental LOAEL	0.015	mg/kg-d	1981	Increased serum lev (ALT), aspartate am glutamultransferase	ninotransferase (Supplemental	Data; Tennant, et al., 19	981 as cited in Maier and Hermann, 2001.
Supplemental LOAEL	0.0005	mg/kg-d					Supplemental E	Data; Maximum Recomm	ended Daily Dose (MRDD)
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?	Y	Y/N					CACART		
Is the contaminant on a list of reproductive toxins?	Y	Y/N					UMD		
EPAHA-DWEL		mg/L					Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²	0.28	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
¹ Bolded data indicate value was used in attribute so									
² For the CCL process HRLs were calculated by cor	nverting the RfD or of	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70) Kg adult, and a Re	elative Source Contribu	ution of 20%. For ca	rcinogens, the concentratio	n at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects (ug/L)	Maximum value of Detects (ug/L)	Median value of Detects (ug/L)	90% of Detects (ug/L)	Units for Mag data		Notes
Snyder, et al., 2007			0.0	Not detected	Not detected	Not detected	Not detected			g Water; Snyder, et al., 2007. Removal of EDCs and s in Drinking and Reuse Treatment Processes. American ssociation.
Snyder, et al., 2007			0.0	Not detected	Not detected	Not detected	Not detected	ug/L		/ater; Snyder, et al., 2007. Removal of EDCs and s in Drinking and Reuse Treatment Processes. American ssociation.
Kolpin, et al., 2002	70		5.7		0.273	0.094				omment on National Surface Water Reconnaissance 002: Env. Sci. & Technol., 36(18), pp. 4007-4008.
HRL Ratios (HRL/Kolpin MAX)		Non-ca	ancer: 0.337			Cance	r:			
Production	Amount Range	Units	Year							
CUCIUD Draduation Data		lbs/yr	1998							
CUSIUR Production Data		lbs/yr	2002							
Use	Pharmaceutical, h	normone								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life	60	days	BST	BST = Biodegrades s	ometimes/recalci	itrant				
Koc, Organic Carbon Partition Coefficient		L/kg								
log K _{OW} , Octanol Water Partition Coeff.	3.67	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	7.94E-12	atm-m ³ /mol								
Water Solubility	11.3	mg/L								

<form> industry in the constraint of CARRY in CARRY in the CARRY in the</form>	Contaminant:	Ethoprop]		Attribute			3-model Categorical Prediction			
Autometric production of the second	Substance Key:				_				ude	NL?			
Kathemeters Number of Statemeters Number of Statemeters Number of Statemeters Grander Non Non Non Non Non Non Reprend Statemeters Statemeters Statemeters Statemeters Statemeters Statemeters Reprend Statemeters	Contaminant ID (CASRN):	13194484				7	3	7 3		HRL Ratio(s)			
Process Based Press Classifier Market Press Press Classifier Market Press	HEALTH EFFECTS DATA ¹									NC HRL/NAWQA 90%: 7.29			
price of the second s	Non-cancer data	Value	Units	Date				Notes					
PA A RbImplied <t< td=""><td>EPA OPP RfD</td><td>0.0001</td><td>mg/kg-d</td><td></td><td></td><td>ion, Q1* 0.0281 (i</td><td>mg/kg-day)-1 -</td><td>Reference Dose; Basis =</td><td>NOAEL 0.01 mg/kg-</td><td>d; UF = 100.</td></t<>	EPA OPP RfD	0.0001	mg/kg-d			ion, Q1* 0.0281 (i	mg/kg-day)-1 -	Reference Dose; Basis =	NOAEL 0.01 mg/kg-	d; UF = 100.			
NamemakemakemakemakeNSDR (Train) MR.1.00maybed1.00Maybed1.00NSDR (Train) MR.0.000maybed1.000Maybed1.000DADAL ADI0.000maybed1.000MaybedAcceptable Daly IndeeTER, Tu1.001.000Maybed1.000Marked Daly IndeeTER, Tu1.001.000Maybed1.000Marked Daly IndeeTER, Tu1.000maybed1.000Marked Daly IndeeTER, Tu1.000marked Daly IndeeMarked Daly IndeeTER, Tu1.000ma	EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose					
NSR (TFR), MR.No.No.No.Minia RatureMPR, maximum ADI0.00449.99419991999Acceptable Daly InsideBERD, AD)N.Ng Ng A11Acceptable Daly InsideBERD, AD)N.N.11Acceptable Daly InsideBERD, AD)N.N.N.Acceptable Daly InsideBERD, MD, ADN.N.N.Acceptable Daly InsideBERD, MD, ADN.N.Acceptable Daly InsideBERD	EPA HA RfD		mg/kg-d					Reference Dose					
MR-maxum AD10.0044mg/kg-d1999Acceptable Daly IntakeEDIADI, AD10.0044mg/kg-d0Acceptable Daly IntakeEDIADI, AD1I.C.Mg/kg-dI.C.Tolerable Daly IntakeEDIADI, AD1I.C.I.C.I.C.Supplemental DalaSupplemental RD-lake valueI.C.mg/kg-dI.C.Supplemental DalaSupplemental RD-lake valueImg/kg-dI.C.Supplemental DalaSupplemental CORENI.G.mg/kg-dI.G.Supplemental DalaSupplemental ICAEI.G.mg/kg-dI.G.Supplemental DalaSupplemental ICAEI.G.mg/kg-dI.G.I.G.	RAISHE RfD		mg/kg-d					Reference Dose					
EDDA ADINg Ng N	ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Level					
EntryImage: state of the state o	JMPR, maximum ADI	0.0004	mg/kg-d	1999				Acceptable Daily Intake					
speperental RDD-like valueImplied <td>CEDIADI, ADI</td> <td></td> <td>mg/kg-d</td> <td></td> <td></td> <td></td> <td></td> <td>Acceptable Daily Intake</td> <td></td> <td></td>	CEDIADI, ADI		mg/kg-d					Acceptable Daily Intake					
Turbur Highest Chonic NOELImplicitImplic	ITER, TDI							Tolerable Daily Intake					
Supplemental NOEL Im mg/kgd Im mg/kgd Supplemental Data StDE Lowest Oral Chonic LOAEL Im mg/kgd Im Supplemental DAEL Supplemental DAEL Img/kgd Supplemental DAEL Supplemental DAEL Supplemental DAEL Supplemental DAEL Img/kgd Img/kgd Supplemental DAEL Supplemental DAEL Supplemental DAEL Img/kgd Img/kgd Supplemental DAEL Supplemental DAEL Img/kgd	Supplemental RfD-like value							Supplemental Data					
ControlControlControlControlControlRECS Lowest Chall Chrone LOAELImg Mg ditImg Mg ditImg Mg ditImg Mg ditStoppenental LOAELImg Mg ditImg Mg ditImg Mg ditImg Mg ditStoppenental LOSDImg Mg ditImg Mg ditImg Mg ditImg Mg ditStoppenental LOSDImg Mg ditImg Mg ditImg Mg ditImg Mg ditStoppenental LOSDImg Mg ditImg Mg ditImg Mg ditImg Mg ditStoppenental LOSDImg Mg ditImg Mg ditImg Mg ditImg Mg ditStoppenental LOSDImg Mg ditImg Mg ditImg Mg ditImg Mg ditStoppenental LOSDImg Mg ditImg Mg ditImg Mg ditImg Mg ditStoppenental LOSDImg Mg ditImg Mg ditImg Mg ditImg Mg ditStoppenental LOSDImg Mg ditImg Mg ditImg Mg ditImg Mg ditStoppenental LOSDImg Mg ditImg Mg ditImg Mg ditImg Mg ditStoppenental LosDImg Mg ditImg Mg ditImg Mg ditImg Mg ditStoppenental Cancer Risk 10 ⁴ Img Mg ditImg Mg ditImg Mg ditImg Mg ditStoppenental Cancer Risk 10 ⁴ Img Mg ditImg Mg ditImg Mg ditImg Mg ditStoppenetationImg Mg ditImg Mg ditImg Mg ditImg Mg ditImg Mg ditStoppenetationImg Mg ditImg Mg ditImg Mg ditImg Mg ditImg Mg ditStoppenetationImg Mg ditImg Mg ditImg Mg ditImg Mg dit </td <td>CTDJPN Highest Chronic NOEL</td> <td></td> <td>mg/kg-d</td> <td></td> <td></td> <td></td> <td></td> <td>No Observed Effect Level</td> <td></td> <td></td>	CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Effect Level					
Number upper handbackNoNumber handbackNumber handbackNumber handbackNupper handbackNoNumber handbackNumber handbackNumber handbackNumber handbackNupper handbackNumber handbackNumber handbackNumber handbackNumber handbackNumber handbackNupper handbackNumber handbackNumber handbackNumber handbackNumber handbackNumber handbackNupper handbackNumber handbackNumber handbackNumber handbackNumber handbackNumber handbackNupper handbackNumber handbackNumber handbackNumber handbackNumber handbackNumber handbackNupper handbackNumber handbackNumber handbackNumber handbackNumber handbackNumber handbackNupper handbackNumber handbackNumber handbackNumber handbackNumber handbackNumber handbackNupper handbackNumber handbackNumber handbackNumber handbackNumber handbackNumber handbackNupper handbackNumber handbackNumber handbackNumber handbackNumber handbackNumber handbackNupper handbackNumber handbackNumber handbackNumber handbackNumber handbackNumber handbackNupper handbackNumber handbackNumber handbackNumber handbackNumber handback <td>Supplemental NOEL</td> <td></td> <td>mg/kg-d</td> <td></td> <td></td> <td></td> <td></td> <td>Supplemental Data</td> <td></td> <td></td>	Supplemental NOEL		mg/kg-d					Supplemental Data					
Control Control Control Control SBB Lowest Oral LD50 Imply Imp	RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observed Adverse	Effect Level				
Now Set Carl LDS0Now Set CarlNow Set CarNow Set CarlNow Set Ca	Supplemental LOAEL		mg/kg-d					Supplemental Data					
No. Behavioral - changes in motor activity (specific assay), Behavioral - muscle contraction or spastion, HBPTO Handbook of pesticide toxicology. Robert Krieger ed, Academic press, 201 Volume(issue) page/year 1.633_2011 Cancer Data 0.12 mg/L C	HSDB Lowest Oral LD50		mg/kg										
Name Name Dehavioral muscle contraction or spastioity Volume(issue/page/var1.693,201 mmm, mmm, mmm, mmm, mmm, mmm, mmm, mm	CTDJPN Lowest Oral LD50		mg/kg										
PA Lifetine Cancer Risk, 10 ⁴ 0.12 mg/L	RTECS Lowest Oral LD50	33	mg/kg							rt Krieger ed, Academic press, 2001			
AGNE AGNE AGNE AGNE AGNE AGNE AGNE 	Cancer Data												
Concernment Concernment Concernment DEHHA Slope Factor (oral) (mg/kg-d) ⁻¹ OPP RED and Ethoprop pesticide tolerances: 73 FR 53725, Spetember 17, 2008 EPA Carcinogen classification Likely Concernment OPP RED and Ethoprop pesticide tolerances: 73 FR 53725, Spetember 17, 2008 EPA Carcinogen classification Likely Concernment Concernment ARC Carcinogen classification Concernment Concernment Concernment Other Supporting Data Concernment Concernment Concernment Ste contaminant on ist of carcinogens? Y Y/N Concernment Concernment ste contaminant on a list of reproductive contaminant on a list of reprodu	EPA Lifetime Cancer Risk, 10 ⁻⁴	0.12	mg/L										
PA Slope Factor (oral) 0.0281 (mg/kg-d) ⁻¹ OPP RED and Ethoprop pesticide tolerances: 73 FR 53725, Spetember 17, 2008 EPA Carcinogen classification Likely I <td< td=""><td>RAISHE Slope Factor</td><td></td><td>(mg/kg-d)⁻¹</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	RAISHE Slope Factor		(mg/kg-d) ⁻¹										
PA Carcinogen classification Likely Covery	OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹										
ARC Carcinogen Classification Image: Content of the second of the se	EPA Slope Factor (oral)	0.0281	(mg/kg-d) ⁻¹					OPP RED and Ethoprop pe	esticide tolerances: 7	3 FR 53725, Spetember 17, 2008			
Defendence Defendence <td>EPA Carcinogen classification</td> <td>Likely</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	EPA Carcinogen classification	Likely											
Secondaminant on list of carcinogens? Y Y/N CACART se the contaminant on a list of reproductive oxins? Y/N CACART EPAHA-DWEL Y/N Image: Contaminant on a list of reproductive oxins? Drinking Water Equivalent Level ePAHA-DWEL Image: Contaminant on a list of reproductive oxins? Image: Contaminant on a list of reproductive oxins? Drinking Water Equivalent Level ePAHA-DWEL Image: Contaminant on a list of reproductive oxins? Image: Contaminant oxins Drinking Water Equivalent Level ePath Reference Level (HRL) ² 0.7 ug/L Image: Contaminant oxins Image: Contaminant oxins Bolded data indicate value was used in attribute scores State Scores State Scores State Scores	IARC Carcinogen Classification												
And Control And Contro And Control	Other Supporting Data												
oxins? Y/N M<	Is contaminant on list of carcinogens?	Y	Y/N					CACART					
EPAHA-DWEL Image: Constraint of the symbol of the symb	Is the contaminant on a list of reproductive toxins?		Y/N										
Health Reference Level (HRL) ² cancer 1.25 ug/L Bolded data indicate value was used in attribute scoring Image: Control of the score scor	EPAHA-DWEL							Drinking Water Equivalent	Level				
Bolded data indicate value was used in attribute scoring	Health Reference Level (HRL) ²	0.7	ug/L										
	Health Reference Level (HRL) ² cancer	1.25	ug/L										
For the CCL process HRLs were calculated by converting the RfD or other dose to ug/L, assuming 2 L/day of water consumed by a 70 Kg adult, and a Relative Source Contribution of 20%. For carcinogens, the concentration at the 10 ⁻⁶ cancer risk was used.	¹ Bolded data indicate value was used in attribute se	coring	·		·			-					
	² For the CCL process HRLs were calculated by cor	nverting the RfD or of	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70) Kg adult, and a Re	elative Source Contrib	ution of 20%. For carcinogens, th	ne concentration at the	10 ⁻⁶ cancer risk was used.			

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water	7,118	84	1.18	0.002	1.95	0.011	0.096	0.8	ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total	1,010,807	lbs/yr	28	States	1997					
TRI Release - surface water	0	lbs/yr	0	States	2004					
TRI Release - total	77,786	lbs/yr	4	States	2004					
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	95% of Detects	Units for Mag data		Notes
PPMP ambient water		0	0		Not Detected		Not Detected	ug/L	Pesticide Pilot N	Aontoring Program (USGS/EPA); 2001
PPMP finished water		0	0		Not Detected		Not Detected	ug/L	2001	
HRL Ratios (HRL/NAWQA 90%)		Non-c	cancer: 7.29			Cancer:	13			
Production	Amount Range	Units	Year							
CUCUUD Draduation Data		lbs/yr	1998							
CUSIUR Production Data		lbs/yr	2002							
Use	Insecticide (HSDE	3)								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life	75-133	days	BST	hydrolysis only: BST	= biodegrades so	ometimes/recalcitrant				
K _{OC} , Organic Carbon Partition Coefficient	70-120	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	3.59	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	1.70E-07	atm-m ³ /mol								
	1.102 01	aun-mon								
Water Solubility	750	mg/L								

Contaminant:	Ethylene glycol			7		Attribute	Scores		3-model Categorical Prediction		
Substance Key:	4599				Potency	Severity	Prevalence	Magnitude	L		
Contaminant ID (CASRN):	107211				3	9	10	10	HRL Ratio(s)		
HEALTH EFFECTS DATA ¹									No water data		
Non-cancer data	Value	Units	Date		Critical Effect				Notes		
EPA OPP RfD		mg/kg-d					Reference Dose				
EPA IRIS (ITER) RfD	2	mg/kg-d	1987	Kidney toxicity. Inc kidney hemoglobin			Reference Dos	e; DePass et al., 1986a;	UF = 100; Rat; Basis NOAEL = 200 mg/kg-d		
EPA HA RfD	2	mg/kg-d	2006				Reference Dose	2			
RAISHE RfD	2	mg/kg-d					Reference Dose	2			
ATSDR (ITER), MRL	0.8	mg/kg-d	2007	Increased total malfo in developmental stu		idence of extra rib 14	Minimal Risk Le	vel			
JMPR, maximum ADI		mg/kg-d					Acceptable Dail	y Intake			
CEDIADI, ADI		mg/kg-d					Acceptable Dail	y Intake			
ITER, TDI	0.05	mg/kg-d	2000	Kidney			Tolerable Daily	Intake; Gaunt et al., 1974	4; UF = 1,000; Rat		
Supplemental RfD-like value							Supplemental D	ata			
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Ef	fect Level			
Supplemental NOEL		mg/kg-d					Supplemental D				
RTECS Lowest Oral Chronic LOAEL	600	mg/kg-d		Behavioral - fluid inta in tubules (including a necrosis), Related to	acute renal failure	e, acute tubular	E Lowest Observed Adverse Effect Level; 2 year oral study in rats; FCTXAV Food and Cosmetics Toxicology. (London, UK) V.1-19, 1963-81. For publisher information, see FCTOD7. Volume(issue)/page/year 3,229,1965				
Supplemental LOAEL		mg/kg-d					Supplemental D	ata			
HSDB Lowest Oral LD50		mg/kg									
CTDJPN Lowest Oral LD50		mg/kg									
RTECS Lowest Oral LD50		mg/kg									
Cancer Data											
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L									
RAISHE Slope Factor		(mg/kg-d) ⁻¹									
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹									
EPA Carcinogen classification	D		1987				Cancer classific identified for pot		eening, but no related quantitative cancer risk data were		
IARC Carcinogen Classification											
Other Supporting Data											
Is contaminant on list of carcinogens?		Y/N									
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Teratogen			UMD				
EPAHA-DWEL	70	mg/L	2006				Drinking Water I	Equivalent Level			
Health Reference Level (HRL) ²	14,000	ug/L									
Health Reference Level (HRL) ² cancer		ug/L									
¹ Bolded data indicate value was used in attribute s	coring										
² For the CCL process HRLs were calculated by co	nverting the RfD or ot	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	elative Source Contribu	ition of 20%. For car	rcinogens, the concentration	n at the 10 ⁻⁶ cancer risk was used.		

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data	·									
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	576,990	lbs/yr	31	States	2004					
TRI Release - total	10,076,483	lbs/yr	49	States	2004					
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (No water data)		Nor	n-cancer:			Cancer	r.			
Production	Amount Range	Units	Year							
CUSIUR Production Data	> 1B	lbs/yr	1998							
	> 1B	lbs/yr	2002							
Use	Antifreeze; cance	lled pesticide; syr		ed in textile manufactu	ure (NTP)					
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BF	BF = biodegrades fast	t					
K _{OC} , Organic Carbon Partition Coefficient	1	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	-1.36	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	6.00E-08	atm-m ³ /mol								
Water Solubility	1,000,000	mg/L								

	Ethylene Oxide]		Attribute			3-model Categorical Prediction
Substance Key: Contaminant ID (CASRN):	2635 75218			-	Potency 6	Severity 8	Prevalence 10	Magnitude 8	L
				1	Ū		10	<u> </u>	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									No water data
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dos	e	
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dos	9	
EPA HA RfD		mg/kg-d					Reference Dos	e	
RAISHE RfD		mg/kg-d					Reference Dos	e	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	evel	
JMPR, maximum ADI		mg/kg-d					Acceptable Dai	ly Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Dai	ly Intake	
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value							Supplemental [Data	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	ffect Level	
Supplemental NOEL		mg/kg-d					Supplemental [Data	
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observ	ed Adverse Effect Level	
Supplemental LOAEL		mg/kg-d					Supplemental [Data	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor	1.02	(mg/kg-d) ⁻¹					HEAST		
OEHHA Slope Factor (oral)	0.31	(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification	1		1994						
Other Supporting Data				•					
Is contaminant on list of carcinogens?	Y	Y/N					CACART; RAIS	; OEHHA; EPA; IARC	
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Teratogen; Developm	nental		UMD; CACART		
EPAHA-DWEL							Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²		ug/L							
Health Reference Level (HRL) ² cancer	0.113	ug/L							
¹ Bolded data indicate value was used in attribute so	coring								
² For the CCL process HRLs were calculated by cor	overting the RfD or of	ther dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	lative Source Contribu	ution of 20%. For ca	rcinogens, the concentration a	at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	4,761	lbs/yr	4	States	2004					
TRI Release - total	374,110	lbs/yr	38	States	2004					
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (No water data)		Nor	n-cancer:			Cance	r:			
Production	Amount Range	Units	Year							
CUSIUR Production Data	> 1B	lbs/yr	1998							
	> 1B	lbs/yr	2002							
Use	Fumigant (NTP);	gas								
Environmental Fate Parameters	Value	Units	Degradation code					Notes		
T _{1/2} , Half life		length of time	BS	PBT; BS = biodegrade	es slowly					
K _{OC} , Organic Carbon Partition Coefficient	1.435	L/kg								
log K _{ow} , Octanol Water Partition Coeff.	-0.3	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	1.48E-04	atm-m ³ /mol								
Water Solubility	1,000,000	mg/L								
% water PBT profiler	43									

Contaminant:	Ethylene thiourea
Substance Key:	3836
Contaminant ID (CASRN):	96457

EPA-OGWDW

Contaminant:	Ethylene thioure	a				Attribute	Scores	3-model Categorical Prediction
Substance Key:	3836				Potency	Severity	Prevalence Magnitude	NL?
Contaminant ID (CASRN):	96457			J	7	6	4 1	HRL Ratio(s)
HEALTH EFFECTS DATA ¹								NC HRL/GWC EEC: 6.67 CAR HRL/GWC EEC: 0.286
Non-cancer data	Value	Units	Date		Critical Effect			Notes
EPA OPP RfD	0.0002	mg/kg-d		Thyroid toxicity			Reference Dose	
EPA IRIS (ITER) RfD	0.00008	mg/kg-d	1991	Increased incidence of	of thyroid hyperpla	Isia	Reference Dose; Basis LOAEL 0.25 mg/kg	l-d. Graham et al., 1975
EPA HA RfD	0.00008	mg/kg-d	2006				Reference Dose	
RAISHE RfD	0.00008	mg/kg-d					Reference Dose	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Level	
JMPR, maximum ADI	0.004	mg/kg-d	1993				Acceptable Daily Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Daily Intake	
ITER, TDI							Tolerable Daily Intake	
Supplemental RfD-like value							Supplemental Data	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Effect Level	
Supplemental NOEL		mg/kg-d					Supplemental Data	
RTECS Lowest Oral Chronic LOAEL	1.34	mg/kg-d		Nutritional and Gross weight gain	Metabolic - weigh	t loss or decreased		week study in rat; JAFCAU Journal of Agricultural and Food ribution Office Dept. 223, POB 57136, West End Stn., me(issue)/page/year 21,324,1973
Supplemental LOAEL		mg/kg-d					Supplemental Data	
HSDB Lowest Oral LD50		mg/kg						
CTDJPN Lowest Oral LD50		mg/kg						
RTECS Lowest Oral LD50		mg/kg						
Cancer Data								
EPA Lifetime Cancer Risk, 10 ⁻⁴	0.006	mg/L					OPP	
RAISHE Slope Factor	0.06	(mg/kg-d) ⁻¹					OPP	
OEHHA Slope Factor (oral)	0.045	(mg/kg-d) ⁻¹						
EPA Carcinogen classification	B2		1988					
IARC Carcinogen Classification	3		2001					
Other Supporting Data								
Is contaminant on list of carcinogens?	Y	Y/N					EPA; RAIS; OEHHA; IARC; CACART	
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Teratogen; Developm	nental		UMD; CACART	
EPAHA-DWEL	0.003	mg/L	2006				Drinking Water Equivalent Level	
Health Reference Level (HRL) ²	1.4	μg/L						
Health Reference Level (HRL) ² cancer	0.06	μg/L						
¹ Bolded data indicate value was used in attribute so	coring							

² For the CCL process HRLs were calculated by converting the RfD or other dose to ug/L, assuming 2 L/day of water consumed by a 70 Kg adult, and a Relative Source Contribution of 20%. For carcinogens, the concentration at the 10⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year		•	•	Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	5	lbs/yr	1	States	2004					
TRI Release - total	299	lbs/yr	4	States	2004					
Supplemental Water Data										
OPP Estimated Environmental Concentration		Surface water ch	nronic: 0.1 ug/L			Ground water chroni	c: 0.21 ug/L			
HRL Ratios (HRL/GWC EEC)		Non-c	ancer: 6.67			Cancer: 0).286			
Production	Amount Range	Units	Year							
CLICILID Draduction Data	10K - 500K	lbs/yr	1998							
CUSIUR Production Data	10K - 500K	lbs/yr	2002							
Use	Pesticide (NTP) Accelerator; indus	strial intermediate	e (HSDB)							
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life	15	days	BS	PBT; BS = biodegrade	es slowly					
K _{OC} , Organic Carbon Partition Coefficient	6.5	L/kg								
log K _{ow} , Octanol Water Partition Coeff.	-0.66	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	3.40E-07	atm-m ³ /mol								
Water Solubility	20,000	mg/L		(at 30 C)						
Water Colubility										

Contaminant:	Fenamiphos			7		Attribute	Scores	3-model Categorical Prediction
Substance Key:	27401				Potency	Severity	Prevalence Magnitude	L?
Contaminant ID (CASRN):	22224926			7 3		8 6	HRL Ratio(s)	
HEALTH EFFECTS DATA ¹								NC HRL/SWC EEC: 0.051
Non-cancer data	Value	Units	Date		Critical Effect			Notes
EPA OPP RfD	0.0001	mg/kg-d		Plasma ChE inhibiti	on.		Reference Dose; Basis = NOAEL 0.01 m	g/kg-d; UF = 100.
EPA IRIS (ITER) RfD	0.00025	mg/kg-d	1986	Cholinesterase inhibi	tion		Reference Dose; Basis = NOEL 0.025 mg/	kg-d; UF = 100.
EPA HA RfD	0.0001	mg/kg-d	2006				Reference Dose	
RAISHE RfD	0.00025	mg/kg-d					Reference Dose	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Level	
JMPR, maximum ADI	0.0008	mg/kg-d	1997				Acceptable Daily Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Daily Intake	
ITER, TDI							Tolerable Daily Intake	
Supplemental RfD-like value							Supplemental Data	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Effect Level	
Supplemental NOEL		mg/kg-d					Supplemental Data	
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observed Adverse Effect Level	
Supplemental LOAEL		mg/kg-d					Supplemental Data	
HSDB Lowest Oral LD50		mg/kg						
CTDJPN Lowest Oral LD50		mg/kg						
RTECS Lowest Oral LD50		mg/kg						
Cancer Data								
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L						
RAISHE Slope Factor		(mg/kg-d) ⁻¹						
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹						
EPA Carcinogen classification	E		1988				Cancer classifications were used for screen identified for potency scoring. OPP change	ning, but no related quantitative cancer risk data were ed cancer classification from D to E.
IARC Carcinogen Classification								
Other Supporting Data								
Is contaminant on list of carcinogens?		Y/N						
Is the contaminant on a list of reproductive toxins?		Y/N						
EPAHA-DWEL	0.0035	mg/L	2006				Drinking Water Equivalent Level	
Health Reference Level (HRL) ²	0.7	ug/L						
Health Reference Level (HRL) ² cancer		ug/L						
¹ Bolded data indicate value was used in attribute so	coring							
² For the CCL process HRLs were calculated by con	nverting the RfD or of	ther dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	elative Source Contribu	tion of 20%. For carcinogens, the concentration a	t the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year		•		Notes	
NCFAP Pesticide Application - total	726,675	lbs/yr	14	States	1997					
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	95% of Detects	Units for Mag data		Notes
PPMP ambient water		0	0		Not Detected		Not Detected	ug/L	Pesticide Pilot N	Iontoring Program (USGS/EPA)
PPMP finished water		0	0		Not Detected		Not Detected	ug/L		
OPP Estimated Environmental Concentration		Surface water cl	nronic: 13.7 ug/L			Ground water chroni	c: 0.47 ug/L			
HRL Ratios (HRL/SWC EEC)		Non-ca	ancer: 0.051			Cance	er:			
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
COSION Production Data		lbs/yr	2002							
Use	Insecticide (HSDI	3)								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BSA	BSA = biodegrades s	lowly with acclimation	ation; PBT				
K _{OC} , Organic Carbon Partition Coefficient	225.1	L/kg								
log K _{ow} , Octanol Water Partition Coeff.	3.23	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	1.21E-09	unitless								
Water Solubility	329	mg/L								
% water PBT profiler	12									

Contaminant:	Formaldehyde						oute Scores			3-model Categorical Prediction
Substance Key: Contaminant ID (CASRN):	2119 50000				Potency 4	Severity 6	Prevalence 10	Magnitude 8		L?
Contaminant ID (CASKN).	50000			J	4	0	10	0		HRL Ratio(s)
HEALTH EFFECTS DATA ¹										NC HRL/DBP ICR MED: 184
Non-cancer data	Value	Units	Date		Critical Effect					Notes
EPA OPP RfD		mg/kg-d					Reference Dose	9		
EPA IRIS (ITER) RfD	0.2	mg/kg-d	1990	Reduced weight gai Decreased absolute weights. Increased	heart, liver, tes	tes & kidney	Reference Dos	e; Basis = NOAEI	_ 15 mg/kg-d;	UF = 100. Til et al., 1989
EPA HA RfD	0.2	mg/kg-d	2006				Reference Dose	9		
RAISHE RfD	0.2	mg/kg-d					Reference Dose	9		
ATSDR (ITER), MRL	0.2	mg/kg-d	1999	Gastro.			Minimal Risk Le	vel; Basis = NOAE	L 15 mg/kg-d;	ATSDR MRL-int = 0.3 mg/kg-d (Til et al., 1989).
JMPR, maximum ADI		mg/kg-d					Acceptable Dail	y Intake		
CEDIADI, ADI		mg/kg-d					Acceptable Dail	y Intake		
ITER, TDI							Tolerable Daily	Intake		
Supplemental RfD-like value							Supplemental D	lata		
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	ffect Level		
Supplemental NOEL		mg/kg-d					Supplemental D	ata		
RTECS Lowest Oral Chronic LOAEL	12.5	mg/kg-d		Liver - other changes	, Blood - change	s in spleen	sodergashie org	anicheskie soedin	enia". (Hazard	"Vrednie chemichescie veshestva, galogen I kislorod ous substances. Galogen and oxygen containing Volume(issue)/page/year -,339,1994
Supplemental LOAEL		mg/kg-d					Supplemental D	ata		
HSDB Lowest Oral LD50		mg/kg								
CTDJPN Lowest Oral LD50		mg/kg								
RTECS Lowest Oral LD50		mg/kg								
Cancer Data										
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L								
RAISHE Slope Factor		(mg/kg-d) ⁻¹								
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹								
EPA Carcinogen classification	B1		1993				Cancer classific identified for po		or screening, I	out no related quantitative cancer risk data were
IARC Carcinogen Classification	2A		1995							
Other Supporting Data										
Is contaminant on list of carcinogens?	Y	Y/N					CACART; EPA;	IARC		
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Teratogen			UMD			
EPAHA-DWEL	7	ug/L	2006				Drinking Water	Equivalent Level		
Health Reference Level (HRL) ²	1,400	ug/L								
Health Reference Level (HRL) ² cancer		ug/L								
¹ Bolded data indicate value was used in attribute s	coring									
² For the CCL process HRLs were calculated by co	nverting the RfD or of	her dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	elative Source Contribut	tion of 20%. For ca	rcinogens, the conce	ntration at the 1	0 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data	Notes	
DBP ICR	227	126	55.5	5	30.6	7.6	29.7	ug/L		
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year	Notes				
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	326,298	lbs/yr	31	States	2004					
TRI Release - total	26,992,234	lbs/yr	46	States	2004					
HRL Ratios (HRL/DBP ICR MED)	Non-cancer: 184					Cancer:				
Production	Amount Range	Units	Year							
CUSIUR Production Data	> 1B	lbs/yr	1998							
	> 1B	lbs/yr	2002							
Use	Naturally-occurring fungicide (NTP); Disinfection by-Product; gas									
Environmental Fate Parameters	Value	Units	Degradation Code	Notes						
T _{1/2} , Half life		length of time	BFA	BFA = Biodegrades Fast with Acclimation						
K _{OC} , Organic Carbon Partition Coefficient	1	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	0.35	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	3.38E-07	atm-m ³ /mol								
Water Solubility	400,000	mg/L								
% water PBT profiler										

Contaminant:	Germanium				Attribute			3-model Categorical Prediction				
Substance Key:	18876			-	Potency		Prevalence		L?			
Contaminant ID (CASRN):	7440564]	6	6	4	4 10 HRL				
HEALTH EFFECTS DATA ¹									NC HRL/NIRS 90%: 0.003			
Non-cancer data	Value	Units	Date		Critical Effect			Notes				
EPA OPP RfD		mg/kg-d					Reference Dos	e				
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dos	e				
EPA HA RfD		mg/kg-d					Reference Dos	e				
RAISHE RfD		mg/kg-d					Reference Dos	e				
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	evel				
JMPR, maximum ADI		mg/kg-d					Acceptable Dai	ly Intake				
CEDIADI, ADI		mg/kg-d					Acceptable Dai	ly Intake				
ITER, TDI							Tolerable Daily	Intake				
Supplemental RfD-like value							Supplemental [Data				
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	ffect Level				
Supplemental NOEL		mg/kg-d		Supplemental Data								
RTECS Lowest Oral Chronic LOAEL	0.318	mg/kg-d		Kidney, Ureter, Blad acute renal failure, a			Lowest Observed Adverse Effect Level; JJMDAT Japanese Journal of Medicine. (Nankod g Ltd., POB 5272, Tokyo International 100-31, Japan) V.1-30, 1962-1991. For publisher infor see IEDIEP. Volume(issue)/page/year 30,67,1991. EPA believes the RTECS LOAEL may b incorrectly cited (should be 3.18 not 0.318). Both values suggest listing germanium.					
Supplemental LOAEL		mg/kg-d					Supplemental [Data				
HSDB Lowest Oral LD50		mg/kg										
CTDJPN Lowest Oral LD50		mg/kg										
RTECS Lowest Oral LD50		mg/kg										
Cancer Data												
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L										
RAISHE Slope Factor		(mg/kg-d) ⁻¹										
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹										
EPA Carcinogen classification												
IARC Carcinogen Classification												
Other Supporting Data												
Is contaminant on list of carcinogens?		Y/N										
Is the contaminant on a list of reproductive toxins?		Y/N										
EPAHA-DWEL							Drinking Water	Equivalent Level				
Health Reference Level (HRL) ²	0.744	ug/L										
Health Reference Level (HRL) ² cancer		ug/L										
¹ Bolded data indicate value was used in attribute												

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes	
Finished Water Occurrence Data						•					
UCMR finished water									ug/L		
NCOD Round 1 finished water									ug/L		
NCOD Round 2 finished water									ug/L		
NIRS finished water	989	4	0.40	26	230	220	220	230	ug/L		
Ambient Water Occurrence Data											
NAWQA ambient water									ug/L		
NREC ambient surface water									ug/L	National Reconnaissance	
NREC ambient ground water									ug/L	National Reconnaissance	
NREC ambient surface water									ug/L	National Aggregate	
NREC ambient ground water									ug/L	National Aggregate	
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes		
NCFAP Pesticide Application - total		lbs/yr		States							
TRI Release - surface water		lbs/yr		States							
TRI Release - total		lbs/yr		States							
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes	
HRL Ratios (HRL/NIRS 90%)		Non-ca	incer: 0.003			Cance	r:				
Production	Amount Range	Units	Year								
CUSIUR Production Data		lbs/yr	1998								
		lbs/yr	2002								
Use	Use data are for g	ermanium dioxid		nsistors and diodes; el	ectroplating (HS	DB); naturally-occurrir	ng				
Environmental Fate Parameters	Value	Units	Degradation Code					Notes			
T _{1/2} , Half life		length of time	BST	assumed persistent; A	All use and env. I	fate data are for germa	anium dioxide; E	3ST = biodegrade	s sometimes/rec	alcitrant	
K _{oc} , Organic Carbon Partition Coefficient		L/kg									
log K _{OW} , Octanol Water Partition Coeff.		unitless									
Kd, Distribution coefficient		L/kg									
HLC, Henry's Law Constant		unitless									
Water Solubility	4,470	mg/L									
% water PBT profiler											

Halon 1011 (bromochloromethane CCL 3 Contaminant Information S					EPA-OGWDW					August Page 109 o
Contaminant	Halon 1011 (bro	mochlorometha	ne)	7	Attribute Scores					3-model Categorical Prediction
Substance Key:	2613				Potency	Severity	Prevalence	Magnitude		NL?
Contaminant ID (CASRN):	74975	74975 5 3 5 6					6		HRL Ratio(s)	
HEALTH EFFECTS DATA1										NC HRL/NCOD R1 90%: 7
Non-cancer data	Value	Units	Date		Critical Effect				No	tes
EPA OPP RfD		mg/kg-d					Reference Dose	1		
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose	1		
EPA HA RfD	0.01	mg/kg-d		Increased liver-to-b and vacuolization o		. Cloudy swelling	Reference Dose	9		
RAISHE RfD		mg/kg-d					Reference Dose	l.		
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Lev	vel		
IMPR, maximum ADI		mg/kg-d					Acceptable Daily	/ Intake		
CEDIADI, ADI		mg/kg-d				Acceptable Daily Intake				
TER, TDI		mg/kg-d					Tolerable Daily Intake			
Supplemental RfD-like value		mg/kg-d					Supplemental D	ata		
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Ef	fect Level		
Supplemental NOEL		mg/kg-d					Supplemental D	ata		
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observe	d Adverse Effect Lev	rel	
Supplemental LOAEL		mg/kg-d					Supplemental D	ata		
HSDB Lowest Oral LD50		mg/kg								
CTDJPN Lowest Oral LD50		mg/kg								
RTECS Lowest Oral LD50		mg/kg								
Cancer Data		1		1			T			
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L								
RAISHE Slope Factor		(mg/kg-d) ⁻¹								
DEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹								
EPA Slope Factor		(mg/kg-d) ⁻¹								
EPA Carcinogen classification	D									

IARC Carcinogen Classification					
Other Supporting Data					
Is contaminant on list of carcinogens?		Y/N			
Is the contaminant on a list of reproductive toxins?		Y/N			
EPAHA-DWEL	0.5	mg/L	2006		Drinking Water Equivalent Level
Health Reference Level (HRL) ²	70	ug/L			
Health Reference Level (HRL) ² cancer		ug/L			
¹ Bolded data indicate value was used in attribute sco	oring				
² For the CCL process HRLs were calculated by conv	verting the RfD or oth	ner dose to ug/L, a	ssuming 2 L/day of w	rater consumed by a 70 Kg adult, and a Relative Source Contribution	on of 20%. For carcinogens, the concentration at the 10 $^{-6}$ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes		
Finished Water Occurrence Data												
UCMR finished water									ug/L			
NCOD Round 1 finished water	12,881	65	0.5	0.05	210	1	10	210	ug/L			
NCOD Round 2 finished water	22,974	106	0.461	0.0023	33.4	1	6	27.9	ug/L			
NIRS finished water												
Ambient Water Occurrence Data												
NAWQA ambient water	4,238	7	0.165	0.01	0.45	0.2	0.422	0.45	ug/L			
NREC ambient surface water									ug/L	National Reconnaissance		
NREC ambient ground water									ug/L	National Reconnaissance		
	# Samples	# with Detects	% Samples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes		
NREC ambient surface water									ug/L	National Aggregate		
NREC ambient ground water									ug/L	National Aggregate		
Application/Release	Amount Released	Units	Number of States	Units	Year		1	1	Notes			
NCFAP Pesticide Application - total		lbs/yr		States	1997							
TRI Release - surface water		lbs/yr		States	2004							
TRI Release - total		lbs/yr		States	2004							
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes		
CAL DHS			0.1			1			Drinking water r http://www.cdph ts.aspx	nonitoring; ca.gov/certlic/drinkingwater/Pages/Chemicalcontaminan		
Krasner, et al., 2006			0.0	Not detected	Not detected	Not detected	Not detected		Krasner, et al., 2	2006. Env. Sci. & Technol. 40 (23): pp. 7175-7185.		
HRL Ratios (HRL/NCOD R1 90%)		Non	-cancer: 7			Cance	er:					
Production	Amount Range	Units	Year									
	>1M-10M	lbs/yr	1998									
CUSIUR Production Data	>1M-10M	lbs/yr	2002									
Use	Fire extinguishing	fluid; chemical i	ntermediate (HSDE	3)								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes				
T _{1/2} , Half life	15 days	length of time	BS	BS = Biodegrades slo	ow (PBT)							
K _{OC} , Organic Carbon Partition Coefficient	23.7	L/kg										
log K _{OW} , Octanol Water Partition Coeff.	1.41	unitless										
Kd, Distribution coefficient		L/kg										
HLC, Henry's Law Constant	0.00146	atm-m ³ /mol										
Water Solubility	16,700	mg/L										
% water PBT profiler	40											

Contaminant:	HCFC-22]		Attribute	Scores		3-model Categorical Prediction
Substance Key:	2654				Potency	Severity	Prevalence		L? - L
Contaminant ID (CASRN):	75456]	5	5	10	10	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									No water data
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dos	e	
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dos	e	
EPA HA RfD		mg/kg-d					Reference Dos	e	
RAISHE RfD		mg/kg-d					Reference Dos	e	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	evel	
JMPR, maximum ADI		mg/kg-d					Acceptable Dai	ily Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Dai	ily Intake	
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value							Supplemental [Data	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	ffect Level	
Supplemental NOEL		mg/kg-d					Supplemental [Data	
RTECS Lowest Oral Chronic LOAEL	13.5	mg/kg-d	1983	Brain and Coverings - other degenerative changes, Blood - changes in other cell count (unspecified), Nutritional and Gross Metabolic - weight loss or decreased weight gain		English transl		l; 26-week study in rat; GISAAA Gigiena i Sanitariya. For D Mezhdunarodnaya Kniga, 113095 Moscow, USSR) V.1- 9,1983	
Supplemental LOAEL		mg/kg-d					Supplemental [Data	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification	3		1999				Cancer classifie identified for po		ening, but no related quantitative cancer risk data were
Other Supporting Data									
Is contaminant on list of carcinogens?		Y/N							
Is the contaminant on a list of reproductive toxins?		Y/N							
EPAHA-DWEL							Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²	31.5	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
¹ Bolded data indicate value was used in attribute s	coring								
² For the CCL process HRLs were calculated by con	nverting the RfD or of	ther dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	elative Source Contrib	ution of 20%. For ca	arcinogens, the concentration	at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year		L		Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	2,972	lbs/yr	1	States	2004					
TRI Release - total	7,075,769	lbs/yr	35	States	2004					
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (No water data)		Nor	n-cancer:			Cance	r:			
Production	Amount Range	Units	Year							
CUSIUR Production Data	>100M - 500M	lbs/yr	1998							
	>100M - 500M	lbs/yr	2002							
Use	Refrigerant; low-t	emperature solve		sins, especially tetraflu	oroethylene pol	ymers (HSDB); gas				
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life	15	days	BS	PBT; BS = biodegrade	es slowly					
K _{OC} , Organic Carbon Partition Coefficient	35.04	L/kg								
log K _{ow} , Octanol Water Partition Coeff.	1.08	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	4.07E-02	atm-m ³ /mol								
Water Solubility	2,770	mg/L								
% water PBT profiler	43									

Contaminant:	Hexane]		Attribute	Scores		3-model Categorical Prediction
Substance Key:	4858				Potency	Severity	Prevalence	Magnitude	L?
Contaminant ID (CASRN):	110543				4	3	10	10	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									No water data
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose	•	
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose	•	
EPA HA RfD		mg/kg-d					Reference Dose		
RAISHE RfD	0.06	mg/kg-d	1989	Decreased body we	ight gain		Environmental		ng/kg-d, UF = 10,000, oral rat study. Health and n-Hexane, ECAO-CIN-G076, Environmental Criteria and mber 1989.
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	vel	
JMPR, maximum ADI		mg/kg-d					Acceptable Dail	y Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Dail	y Intake	
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value							Supplemental D	ata	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Ef	fect Level	
Supplemental NOEL		mg/kg-d					Supplemental D	ata	
RTECS Lowest Oral Chronic LOAEL	1,429	mg/kg-d		Nutritional and Gross weight gain	Metabolic - weig	ht loss or decreased			TIHEEC Toxicology and Industrial Health. (Princeton Scientific 40) V.1- 1985- Volume(issue)/page/year 1(3),67,1985
Supplemental LOAEL		mg/kg-d					Supplemental D	ata	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification	D		1987				Cancer classific identified for pol		eening, but no related quantitative cancer risk data were
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?		Y/N							
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Teratogen			UMD		
EPAHA-DWEL							Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²	420	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
¹ Bolded data indicate value was used in attribute s	coring								
² For the CCL process HRLs were calculated by co	nverting the RfD or o	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	elative Source Contribu	ution of 20%. For ca	cinogens, the concentration	n at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	14,489	lbs/yr	38	States	2004					
TRI Release - total	39,844,882	lbs/yr	53	States	2004					
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (No water data)		No	n-cancer:			Cancer	r:			
Production	Amount Range	Units	Year							
CUSIUR Production Data	>100M - 500M	lbs/yr	1998							
	> 1B	lbs/yr	2002							
Use	Naturally-occurrin	ng; solvent (NTP)								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BFA	BFA = biodegrades fa	ast with acclimati	on				
K _{OC} , Organic Carbon Partition Coefficient	149	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	3.9	unitless								
	1									
Kd, Distribution coefficient		L/kg								
Kd, Distribution coefficient HLC, Henry's Law Constant	1.8	L/kg atm-m ³ /mol								
	1.8	-								

	Hydrazine]		Attribute			3-model Categorical Prediction
	6460			-	Potency	Severity	Prevalence	Magnitude	L
Contaminant ID (CASRN):	302012]	7	8	9	7	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									No water data
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dos	e	
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dos	e	
EPA HA RfD		mg/kg-d					Reference Dos	e	
RAISHE RfD		mg/kg-d					Reference Dos	e	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	evel	
JMPR, maximum ADI		mg/kg-d					Acceptable Dai	ly Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Dai	ly Intake	
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value							Supplemental [Data	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	ffect Level	
Supplemental NOEL		mg/kg-d					Supplemental D	Data	
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observ	ed Adverse Effect Level	
Supplemental LOAEL		mg/kg-d					Supplemental [Data	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴	0.001	mg/L							
RAISHE Slope Factor	3	(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)	3	(mg/kg-d) ⁻¹							
EPA Carcinogen classification	B2								
IARC Carcinogen Classification	2B	1999							
Other Supporting Data		<u> </u>							
Is contaminant on list of carcinogens?	Y	Y/N					CACART; EPA	IARC; OEHHA; RAIS	
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Teratogen			UMD		
EPAHA-DWEL							Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²		ug/L							
Health Reference Level (HRL) ² cancer	0.01	ug/L							
¹ Bolded data indicate value was used in attribute sc	oring								
² For the CCL process HRLs were calculated by con	verting the RfD or ot	her dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	lative Source Contrib	ution of 20%. For ca	rcinogens, the concentration	at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	5	lbs/yr	1	States	2004					
TRI Release - total	165,485	lbs/yr	16	States	2004					
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (No water data)		Nor	n-cancer:			Cancel	r.			
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
	>1M - 10M	lbs/yr	2002							
Use	Chemical interme	diate; rocket prop		orine scavenger (HSDI	3)					
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BF	BF = biodegrades fast						
K _{OC} , Organic Carbon Partition Coefficient	14.3	L/kg								
log K _{ow} , Octanol Water Partition Coeff.	-2.07	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	1.44E-08	atm-m ³ /mol								
Water Solubility	1,000,000	mg/L								
% water PBT profiler										

Mestranol CCL 3 Contaminant Information Sheet

Contaminant:	Mestranol		Attribute S	Scores	
Substance Key:	2581	Potency	Severity	Prevalence	Magnitude
Contaminant ID (CASRN):	72333	8	3	9	4

3-model Categorical Prediction	
L?	
HRL Ratio(s)	

HEALTH EFFECTS DATA¹

HEALTH EFFECTS DATA ¹						NC HRL/Kolpin MAX: 0.688			
Non-cancer data	Value	Units	Date	Critical Effect		Notes			
EPA OPP RfD		mg/kg-d			Reference Dose				
EPA IRIS (ITER) RfD		mg/kg-d			Reference Dose				
EPA HA RfD		mg/kg-d			Reference Dose				
RAISHE RfD		mg/kg-d			Reference Dose				
ATSDR (ITER), MRL		mg/kg-d			Minimal Risk Level				
JMPR, maximum ADI		mg/kg-d			Acceptable Daily Intake				
CEDIADI, ADI		mg/kg-d			Acceptable Daily Intake				
ITER, TDI					Tolerable Daily Intake				
Supplemental RfD-like value		mg/kg-d			Supplemental Data				
Supplemental RfD-like value		mg/kg-d			Supplemental Data				
CTDJPN Highest Chronic NOEL		mg/kg-d			No Observed Effect Level				
Supplemental NOAEL	0.04	mg/kg-d	2001	Hematalogical effects	Supplemental Data; Maier and Hermann, 2001. F	Regulatory Toxicology and Pharmacology, 34, pp 53-61.			
RTECS Lowest Oral Chronic LOAEL		mg/kg-d			Lowest Observed Adverse Effect Level				
Supplemental LOAEL (for ethinyl estradiol)	0.015	mg/kg-d	1981	Increased serum levels of alanine aminotransferase (ALT), aspartate aminotransferase (AST) and γ- glutamultransferase (GGT).	Supplemental Data; Tennant, et al., 1981 as cited in Maier and Hermann, 2001.				
Supplemental LOAEL	0.00083	mg/kg-d			Supplemental Data; Maximum Recommended Da	ily Dose (MRDD)			
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?	Y	Y/N			CACART				
Is the contaminant on a list of reproductive toxins?	Y	Y/N			UMD				
EPAHA-DWEL		mg/L			Drinking Water Equivalent Level				
Health Reference Level (HRL) ²	0.28	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
¹ Bolded data indicate value was used in attribute sc	0					- 6			
For the CCL process HRLs were calculated by con-	verting the RfD or o	ther dose to ug/L, a	issuming 2 L/day of	water consumed by a 70 Kg adult, and a Relative Source Contribu	tion of 20%. For carcinogens, the concentration at the 10	čancer risk was used.			

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data	·									
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	Units for Mag data		Notes
Kolpin, et al., 2002	70		4.3		0.407	0.017				omment on National Surface Water Reconnaissance 002: Env. Sci. & Technol., 36(18), pp. 4007-4008.
									1	
HRL Ratios (HRL/Kolpin MAX)		Non-ca	ancer: 0.688			Cance	r:			
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
		lbs/yr	2002							
Use	Metabolite of ethin	nyl estradiol								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life	60	days	BST	BST = Biodegrades se	ometimes/recalc	itrant				
K _{oc} , Organic Carbon Partition Coefficient		L/kg								
log K _{OW} , Octanol Water Partition Coeff.	4.68	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant		atm-m ³ /mol								
Water Solubility	Practically insoluble	mg/L								
% water PBT profiler	9									

Contaminant:	Methamidophos			1		Attribute	Scores	3-model Categorical Prediction			
Substance Key:	21025				Potency	Severity	Prevalence Magnitude	L? - L			
Contaminant ID (CASRN):	10265926			7 5		10 6	HRL Ratio(s)				
HEALTH EFFECTS DATA ¹								NC HRL/SWC EEC: 0.304			
Non-cancer data	Value	Units	Date	Critical Effect			Notes				
EPA OPP RfD	0.0003	mg/kg-d		Brain ChE inhibition	n		Reference Dose; Basis = NOAEL 0.03 mg/kg-d; UF = 100.				
EPA IRIS (ITER) RfD	0.00005	mg/kg-d	1987	Decreased body weig	ght		Reference Dose; Basis = LOEL 0.05 mg/kg-d				
EPA HA RÍD		mg/kg-d					Reference Dose				
RAISHE RfD	0.00005	mg/kg-d					Reference Dose				
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Level				
JMPR, maximum ADI	0.004	mg/kg-d	1990				Acceptable Daily Intake				
CEDIADI, ADI		mg/kg-d					Acceptable Daily Intake				
ITER, TDI							Tolerable Daily Intake				
Supplemental RfD-like value							Supplemental Data				
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Effect Level				
Supplemental NOEL		mg/kg-d					Supplemental Data				
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observed Adverse Effect Level				
Supplemental LOAEL		mg/kg-d					Supplemental Data				
HSDB Lowest Oral LD50		mg/kg									
CTDJPN Lowest Oral LD50		mg/kg									
RTECS Lowest Oral LD50		mg/kg									
Cancer Data											
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L									
RAISHE Slope Factor		(mg/kg-d) ⁻¹									
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹									
EPA Carcinogen classification											
IARC Carcinogen Classification											
Other Supporting Data											
Is contaminant on list of carcinogens?		Y/N									
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Teratogen			UMD				
EPAHA-DWEL							Drinking Water Equivalent Level				
Health Reference Level (HRL) ²	2.1	ug/L									
Health Reference Level (HRL) ² cancer		ug/L									
¹ Bolded data indicate value was used in attribute se	-										
² For the CCL process HRLs were calculated by con	nverting the RfD or o	ther dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70) Kg adult, and a Re	lative Source Contribu	tion of 20%. For carcinogens, the concentration at the	e 10 ⁻⁶ cancer risk was used.			

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year		Notes			
NCFAP Pesticide Application - total	965,584	lbs/yr	39	States	1997					
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data										
OPP Estimated Environmental Concentration		Surface water ch	nronic: 6.9 ug/L			Ground water chronic	c: 3.8 ug/L			
HRL Ratios (HRL/SWC EEC)		Non-ca	ancer: 0.304			Cance	r:			
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
COSION FIGUREION Data		lbs/yr	2002							
Use	Insecticide (HSDE	3)								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BS	PBT; BS = Biodegrad	es Slowly					
K _{OC} , Organic Carbon Partition Coefficient	3.848	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	-0.8	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	8.70E-10	atm-m ³ /mol								
Water Solubility	1000000	mg/L								
% water PBT profiler	39									

Methanol CCL 3 Contaminant Information Sheet

Contaminant	Methanol			1		Attribute	Scores	3-model Categorical Prediction
Substance Key:	2508				Potency	Severity	Prevalence Magnitude	L?-L
Contaminant ID (CASRN):	67561]	3	6	10 10	HRL Ratio(s)
HEALTH EFFECTS DATA1								No water data
Non-cancer data	Value	Units	Date		Critical Effect			Notes
EPA OPP RfD		mg/kg-d					Reference Dose	
EPA IRIS (ITER) RfD	0.5	mg/kg-d	1988	Increased SAP & So weight	GPT& liver weight,	, decreased brain	Reference Dose; U.S. EPA, 1986; Bas	sis = NOEL 500 mg/kg-d; UF = 1,000; Rat
EPA HA RfD		mg/kg-d					Reference Dose	
RAISHE RfD	0.5	mg/kg-d					Reference Dose	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Level	
JMPR, maximum ADI		mg/kg-d					Acceptable Daily Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Daily Intake	
ITER, TDI							Tolerable Daily Intake	
Supplemental RfD-like value							Supplemental Data	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Effect Level	
Supplemental NOEL		mg/kg-d					Supplemental Data	
RTECS Lowest Oral Chronic LOAEL	3.13	mg/kg-d		Liver - other changes	3		veshestva, galogen I kislorod sodergasl	200 day oral study in rats; VCVGK "Vrednie chemichescie hie organicheskie soedinenia". (Hazardous substances. Galogen ndman A.L. et al., Chimia, 1994. Volume(issue)/page/year -
Supplemental LOAEL		mg/kg-d					Supplemental Data	
HSDB Lowest Oral LD50		mg/kg						
CTDJPN Lowest Oral LD50		mg/kg						
RTECS Lowest Oral LD50	5,600	mg/kg		Details of toxic effect value	s not reported othe	er than lethal dose		eshestva, galogen I kislorod sodergashie organicheskie alogen and oxygen containing substances), Bandman A.L. et al., ,87,1984
Cancer Data								
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L						
RAISHE Slope Factor		(mg/kg-d) ⁻¹						
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹						
EPA Carcinogen classification								
IARC Carcinogen Classification								
Other Supporting Data								
Is contaminant on list of carcinogens?		Y/N						
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Teratogen			UMD	
EPAHA-DWEL							Drinking Water Equivalent Level	
Health Reference Level (HRL) ²	3,500	ug/L						
Health Reference Level (HRL) ² cancer		ug/L						
¹ Bolded data indicate value was used in attribute set	coring							
² For the CCL process HRLs were calculated by con	nverting the RfD or of	ther dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70) Kg adult, and a Rela	ative Source Contribut	ion of 20%. For carcinogens, the concentration	on at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year			•	Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	10,966,234	lbs/yr	41	States	2004					
TRI Release - total	201,697,278	lbs/yr	52	States	2004					
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (No water data)		Nor	n-cancer:			Cancer	r:			
Production	Amount Range	Units	Year							
CUSIUR Production Data	> 1B	lbs/yr	1998							
COOLENT TOUCION Data	> 1B	lbs/yr	2002							
Use	Industrial solvent;	gasoline additive	e (HSDB); anti-free	ze						
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BF	BF = Biodegrades Fas	st					
K _{oc} , Organic Carbon Partition Coefficient	1	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	-0.77	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	4.56E-06	atm-m3/mol								
Water Solubility	1000000	mg/L								
% water PBT profiler										

Contaminant:	Methyl bromide	(Bromomethane)]		Attribute			3-model Categorical Prediction		
Substance Key: Contaminant ID (CASRN):	2601 74839				Potency 6	Severity 6	Prevalence Magnit		L?		
Containinant ID (CASKN).	14000			<u> </u>	0	Ū			HRL Ratio(s)		
HEALTH EFFECTS DATA ¹									NC HRL/NCOD R1 90%: 0.891		
Non-cancer data	Value	Units	Date		Critical Effect				Notes		
EPA OPP RfD		mg/kg-d					Reference Dose				
EPA IRIS (ITER) RfD	0.0014	mg/kg-d	1988	Epithelial hyperplas	lay; UF = 1,000; Rat. Danse et al., 1984						
EPA HA RfD	0.001	mg/kg-d	2006				Reference Dose				
RAISHE RfD	0.0014	mg/kg-d					Reference Dose				
ATSDR (ITER), MRL	0.003	mg/kg-d	9/1992	Gastro			Int-Minimal Risk Level				
JMPR, maximum ADI	1	mg/kg-d	1966				Acceptable Daily Intake				
CEDIADI, ADI		mg/kg-d					Acceptable Daily Intake				
ITER, TDI							Tolerable Daily Intake				
Supplemental RfD-like value							Supplemental Data				
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Effect Level				
Supplemental NOEL		mg/kg-d					Supplemental Data				
RTECS Lowest Oral Chronic LOAEL	29.9	mg/kg-d		Kidney, Ureter, Bladder - other changes in urine composition, Skin and Appendages - hair, Nutritional and Gross Metabolic - weight loss or decreased weight gain Lowest Observed Adverse Effect Level; 2-year oral study in rat; FCTOD7 Food and Che (Pergamon Press Inc., Maxwell House, Fairview Park, Elmsford, NY 10523) V.20- 198							
Supplemental LOAEL		mg/kg-d					Supplemental Data				
HSDB Lowest Oral LD50		mg/kg									
CTDJPN Lowest Oral LD50		mg/kg									
RTECS Lowest Oral LD50		mg/kg									
Cancer Data											
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L									
RAISHE Slope Factor		(mg/kg-d) ⁻¹									
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹									
EPA Carcinogen classification	D		1989				Cancer classifications wer identified for potency scor		but no related quantitative cancer risk data were		
IARC Carcinogen Classification	3		1999								
Other Supporting Data											
Is contaminant on list of carcinogens?		Y/N									
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Developmental			CACART				
EPAHA-DWEL	0.05	mg/L	2006				Drinking Water Equivalent	t Level			
Health Reference Level (HRL) ²	9.8	ug/L									
Health Reference Level (HRL) ² cancer		ug/L									
¹ Bolded data indicate value was used in attribute s	coring			•			•				
² For the CCL process HRLs were calculated by co	nverting the RfD or o	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	elative Source Contribu	tion of 20%. For carcinogens,	the concentration at the 1	10 ⁻⁶ cancer risk was used.		

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water	20,198	155	0.77	0.07	43	1	11	34	ug/L	
NCOD Round 2 finished water	23,328	175	0.75	0.09	38.1	1.6	8.1	27.2	ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water	4,317	3	0.069	0.04	0.5	0.1	0.5	0.5	ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total	32,803,943	lbs/yr	29	States	1997					
TRI Release - surface water	200	lbs/yr	3	States	2004					
TRI Release - total	533,748	lbs/yr	17	States	2004					
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (HRL/NCOD R1 90%)		Non-ca	ancer: 0.891			Cancer				
Production	Amount Range	Units	Year							
CUSIUR Production Data	>10M - 50M	lbs/yr	1998							
	>1M - 10M	lbs/yr	2002							
Use	Cancelled fumiga	nt (NTP); gas								
Environmental Fate Parameters	Value	Units	Degradation code					Notes		
T _{1/2} , Half life	20-26.7	days	BS	hydrolysis only; BS =	biodegrades slo	wly				
K _{OC} , Organic Carbon Partition Coefficient	9-22	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	1.19	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	7.34E-03	atm-m ³ /mol								
Water Solubility	13,400	mg/L								
% water PBT profiler	42									

Contaminant:	Methyl tert-butyl	lether		1		Attribute	Scores				3-model Categorical Prediction
Substance Key:	11918				Potency	Severity	Prevalence	-	nitude		L?
Contaminant ID (CASRN):	1634044				4	8	5		8		HRL Ratio(s)
											NC HRL/UCMR 90%: 58.3
HEALTH EFFECTS DATA ¹							-				CAR HRL/UCMR 90%: 0.539
Non-cancer data	Value	Units	Date		Critical Effect						Notes
EPA OPP RfD		mg/kg-d					Reference Do	ose			
EPA IRIS (ITER) RfD		mg/kg-d					Reference Do	se			
EPA HA RfD		mg/kg-d					Reference Do	ose			
RAISHE RfD		mg/kg-d					Reference Do	ose			
ATSDR (ITER), MRL	0.3	mg/kg-d	8/1996	Hepatic: Decreased	blood urea nitrog	en levels.	Int-Minimal Ri	isk Level			
JMPR, maximum ADI		mg/kg-d					Acceptable D	aily Intake			
CEDIADI, ADI		mg/kg-d					Acceptable D	aily Intake			
ITER, TDI	0.01	mg/kg-d	1991				Tolerable Dai	ly Intake; I	Basis NOAEL	100 mg/kg-	d
Supplemental RfD-like value							Supplemental	l Data			
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed	Effect Lev	vel		
Supplemental NOEL		mg/kg-d					Supplemental	l Data			
RTECS Lowest Oral Chronic LOAEL	300	mg/kg-d		Kidney, Ureter, Blado - changes in serum c cholesterol), Nutrition calcium	omposition (e.g.	TP, bilirubin,	Lowest Obser	Mary Ann	Liebert, Inc.,	1651 Third A	tudy in rat; JACTDZ Journal of the American College of Ave., New York, NY 10128) V.1-12, 1982-1993. ,1990
Supplemental LOAEL		mg/kg-d					Supplemental	l Data			
HSDB Lowest Oral LD50		mg/kg									
CTDJPN Lowest Oral LD50		mg/kg									
RTECS Lowest Oral LD50		mg/kg									
Cancer Data											
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L									
RAISHE Slope Factor		(mg/kg-d) ⁻¹									
OEHHA Slope Factor (oral)	0.0018	(mg/kg-d) ⁻¹									
EPA Carcinogen classification											
IARC Carcinogen Classification	3		1999								
Other Supporting Data											
Is contaminant on list of carcinogens?	Y	Y/N					OEHHA				
Is the contaminant on a list of reproductive toxins?		Y/N									
EPAHA-DWEL							Drinking Wate	er Equivale	ent Level		
Health Reference Level (HRL) ²	2,100	ug/L									
Health Reference Level (HRL) ² cancer	19.4	ug/L									
¹ Bolded data indicate value was used in attribute s	coring										
² For the CCL process HRLs were calculated by co	nverting the RfD or o	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	elative Source Contribu	ution of 20%. For	carcinogen	s, the concentra	ation at the 10	0 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water	3,617	17	0.47	5	49	9.2	36	49	ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water	4,328	424	9.8	0.01	2,300	0.3	7.85	1,800	ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Units Year Notes					
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	40,177	lbs/yr	17	States	2004					
TRI Release - total	2,040,906	lbs/yr	42	States	2004					
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (HRL/UCMR 90%)		Non-c	ancer: 58.3			Cancer: 0	.539			
Production	Amount Range	Units	Year							
CUSIUR Production Data	> 1B	lbs/yr	1998							
COSIDIC FIGUREION Data	> 1B	lbs/yr	2002							
Use	Octane booster in	gasoline; manuf	acture of isobutene	e; extraction solvent (H	ISDB)					
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life	15	days	BS	PBT; BS = biodegrad	es slowly					
K _{OC} , Organic Carbon Partition Coefficient	6	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	0.94	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	5.87E-04	atm-m ³ /mol								
Water Solubility	51,000	mg/L								
% water PBT profiler	46									

Metolachlor CCL 3 Contaminant Information Sheet

Contaminant:	Metolachlor					Attribute S							
Substance Key:	35270					Severity	Prevalence			NL?			
Contaminant ID (CASRN):	51218452				4	3	6	6		HRL Ratio(s)			
HEALTH EFFECTS DATA ¹									NC HF	RL/NCOD R2 90%: 321			
Non-cancer data	Value	Units	Date		Critical Effect				Notes				
EPA OPP RfD	0.1	mg/kg-d	1995	Decreased body we	eight gain		Reference Do	se; Basis NOAEL =	9.7 mg/kg-d; UF = 100. OPP RE).			
EPA IRIS (ITER) RfD	0.15	mg/kg-d	1988	Decreased body weig	ght gain		Reference Dos	se; Basis = NOEL 15	mg/kg-d; UF = 100. Ciba-Geigy, 1	983			
EPA HA RfD	0.1	mg/kg-d	2006				Reference Dos	se					
RAISHE RfD	0.15	mg/kg-d					Reference Dos	se					
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk L	evel					
JMPR, maximum ADI		mg/kg-d					Acceptable Da	ily Intake					
CEDIADI, ADI		mg/kg-d					Acceptable Da	ily Intake					
ITER, TDI							Tolerable Daily	/ Intake					
Supplemental RfD-like value							Supplemental	Data					
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	Effect Level					
Supplemental NOEL		mg/kg-d					Supplemental	Data					
RTECS Lowest Oral Chronic LOAEL	25	mg/kg-d		Metabolic - weight los	ake (animal), Nutritional ss or decreased weight ne inhibition, induction, s - phosphatases	gain,	Science Societ	ty of Japan. (Nippon	evel; NNGADV Nippon Noyaku Ga Noyaku Gakkai, 1-43-11, Komago)/page/year 14,103,1989				
Supplemental LOAEL		mg/kg-d					Supplemental	Data					
HSDB Lowest Oral LD50		mg/kg											
CTDJPN Lowest Oral LD50		mg/kg											
RTECS Lowest Oral LD50	1,150	mg/kg		Details of toxic effect value	ts not reported other tha	n lethal dose	Noyaku Gakka		ii. Journal of the Pesticide Science ie, Toshima-ku, Tokyo 170, Japan 89				
Cancer Data													
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L											
RAISHE Slope Factor		(mg/kg-d) ⁻¹											
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹											
EPA Carcinogen classification	С		1988				Cancer classifi identified for po		r screening, but no related quantita	tive cancer risk data were			
IARC Carcinogen Classification													
Other Supporting Data													
s contaminant on list of carcinogens?		Y/N											
s the contaminant on a list of reproductive toxins?		Y/N											
EPAHA-DWEL	3.5	mg/L	2006				Drinking Water	r Equivalent Level					
Health Reference Level (HRL) ²	700	ug/L											
Health Reference Level (HRL) ² cancer		ug/L											

¹ Bolded data indicate value was used in attribute scoring

² For the CCL process HRLs were calculated by converting the RfD or other dose to ug/L, assuming 2 L/day of water consumed by a 70 Kg adult, and a Relative Source Contribution of 20%. For carcinogens, the concentration at the 10⁻⁴ cancer risk was used.

Metolachlor CCL 3 Contaminant Information Sheet

	_									
	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water	13,007	116	0.89	0.01	13.8	0.57	2.18	7.1	ug/L	
NIRS finished water										
Ambient Water Occurrence Data	•									
NAWQA ambient water	7,165	1,817	25.4	0.0002	77.6	0.025	0.58	6.71	ug/L	
NREC ambient surface water			8.76			0.12			ug/L	National Reconnaissance
NREC ambient ground water			1.23			0.125			ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water	Amount		Number of						ug/L	National Aggregate
Application/Release	Released	Units	States	Units	Year				Notes	
NCFAP Pesticide Application - total	67,336,211	lbs/yr	48	States	1997					
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	95% of Detects	Units for Mag data		Notes
PDP finished water	203	102	50.2	0.01	0.079			ug/L	Pesticide Data I	Program (USDA); 2001
PDP finished water	582	233	40	0.005	0.226			ug/L	2002	
PPMP ambient water		288	89.2		3.32		0.033	ug/L	Pesticide Pilot N	Nontoring Program (USGS/EPA)
PPMP finished water		198	86.8		0.661		0.336	ug/L		
	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	Units for Mag data		Notes
CAL DHS	7,345	15	0.2	0.05	0.7	0.06	0.1	ug/L	Drinking water n http://www.cdph ts.aspx	nonitoring; n.ca.gov/certlic/drinkingwater/Pages/Chemicalcontaminan
STORET	2,082	676	32.5	0.00867	86	0.19	1.4	ug/L		
HRL Ratios (HRL/NCOD R2 90%)		Non-o	cancer: 321			Cancer				
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
		lbs/yr	2002							
Use	Herbicide (HSDB)								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life	47;78	days	BSA	aerobic;anaerobic; B	SA = biodegrade	es slow with acclimatio	n			
K _{oc} , Organic Carbon Partition Coefficient	22-310	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	3.13	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	9.00E-09	atm-m ³ /mol								
	1	1	1	1						
Water Solubility	530	mg/L								

Contaminant:	Metolachlor etha	anesulfonic acid	(ESA)			Attribute				3-model Categorical Prediction
Substance Key:	79218			-	Potency	Severity	Prevalence	Magnitude		NL
Contaminant ID (CASRN):	171118095			J	2	1	6 Scores based or	6 parent		HRL Ratio(s)
HEALTH EFFECTS DATA ¹ - See Metolaci	hlor Parent									HRL/NAWQA 90%: ≥3,210 (NAWQA data for metolachlor parent)
Non-cancer data	Value	Units	Date		Critical Effect					Notes
EPA OPP RfD		mg/kg-d					Reference Dose			
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose			
EPA HA RfD		mg/kg-d					Reference Dose	1		
RAISHE RfD		mg/kg-d					Reference Dose			
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	vel		
JMPR, maximum ADI		mg/kg-d					Acceptable Dail	/ Intake		
CEDIADI, ADI		mg/kg-d					Acceptable Dail	/ Intake		
ITER, TDI							Tolerable Daily	ntake		
Supplemental RfD-like value							Supplemental D	ata		
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Ef	fect Level		
Supplemental NOEL	≥1000	mg/kg-d		No biologically	significant effects		Supplemental I	Data; EPA OPP NO	AEL - FOR	METOLACHLOR ESA
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observe	d Adverse Effect Le	evel	
Supplemental LOAEL		mg/kg-d					Supplemental D	ata		
HSDB Lowest Oral LD50		mg/kg								
CTDJPN Lowest Oral LD50		mg/kg								
RTECS Lowest Oral LD50		mg/kg								
Cancer Data				-						
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L								
RAISHE Slope Factor		(mg/kg-d) ⁻¹								
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹								
EPA Carcinogen classification										
IARC Carcinogen Classification										
Other Supporting Data										
Is contaminant on list of carcinogens?		Y/N								
Is the contaminant on a list of reproductive toxins?		Y/N								
EPAHA-DWEL							Drinking Water I	Equivalent Level		
Health Reference Level (HRL) ²	≥7,000	ug/L								
Health Reference Level (HRL) ² cancer		ug/L								
¹ Bolded data indicate value was used in attribute so	coring									
² For the CCL process HRLs were calculated by cor	nverting the RfD or o	ther dose to ug/L, a	ssuming 2 L/day of w	ater consumed by a	70 Kg adult, and a Re	elative Source Contrib	oution of 20%. For ca	arcinogens, the conce	ntration at the	2 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data - FOR MET	OLACHLOR PAR	RENT								
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water	13,007	116	0.89	0.01	13.8	0.57	2.18	7.1	ug/L	
NIRS finished water										
Ambient Water Occurrence Data		L	1			1		1		
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Samp les with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	95% of Detects	Units for Mag data		Notes
PDP finished water	83	19	22.9	0.50	2.21			ug/L	Pesticide Data F	Program (USDA); 2001 - FOR METOLACHLOR ESA
PDP finished water	318	198	51.9	0.02	2.24			ug/L	2002 - FOR ME	TOLACHLOR ESA
FOR METOLACHLOR - PARENT	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Samp les with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	Units for Mag data		Notes
CAL DHS	7,345	15	0.2	0.05	0.7	0.06	0.1	ug/L	Drinking water r http://www.cdph px	nonitoring; ca.gov/certlic/drinkingwater/Pages/Chemicalcontaminants.as
STORET	2,082	676	32.5	0.00867	86	0.19	1.4	ug/L		
HRL Ratios (HRL/NCOD R290%)		Non-car	ncer: <u>></u> 3,210			Cancer	:		NCOD data for	metolachlor - parent
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
COSIOR Production Data		lbs/yr	2002							
Use	Pesticide degrada	ate								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time								
K _{OC} , Organic Carbon Partition Coefficient		L/kg								
log K _{OW} , Octanol Water Partition Coeff.		unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant		atm-m ³ /mol								
Water Solubility		mg/L								
% water PBT profiler										

Contaminant:	Metolachlor oxa	nilic acid (OA)				Attribute			3-model Categorical Prediction
Substance Key: Contaminant ID (CASRN):	79220 152019733			Poten 2	су	Severity 1	Prevalence 6	Magnitude 6	NL
Containinant ID (CASKN).	102010/00					•	Scores based o		HRL Ratio(s)
HEALTH EFFECTS DATA ¹ - See Metolac	hlor Parent								HRL/NAWQA 90%: 3,210 (NAWQA data for metolachlor parent)
Non-cancer data	Value	Units	Date	Critical E	ffect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose		
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose		
EPA HA RfD		mg/kg-d					Reference Dose	!	
RAISHE RfD		mg/kg-d					Reference Dose	!	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	vel	
JMPR, maximum ADI		mg/kg-d					Acceptable Dail	y Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Dail	y Intake	
ITER, TDI							Tolerable Daily	ntake	
Supplemental RfD-like value							Supplemental D	ata	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Ef	fect Level	
Supplemental NOEL	1,000	mg/kg-d		No biologically significant effe	ects		Supplemental I	Data; EPA OPP NOAEI	L - FOR METOLACHLOR OA
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observe	d Adverse Effect Level	
Supplemental LOAEL		mg/kg-d					Supplemental D	ata	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?		Y/N							
Is the contaminant on a list of reproductive toxins?		Y/N							
EPAHA-DWEL							Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²	7,000	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
¹ Bolded data indicate value was used in attribute se	coring			•					
² For the CCL process HRLs were calculated by cor	nverting the RfD or o	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70 Kg adult, an	nd a Re	lative Source Contrib	oution of 20%. For ca	cinogens, the concentration	on at the 10 ⁻⁶ cancer risk was used.

Metolachlor OA	
CCL 3 Contaminant Information Sheet	

	1	T	T			1		1	1	
	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data - FOR ME	TOLACHLOR PAR	RENT								
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water	13,007	116	0.89	0.01	13.8	0.57	2.18	7.1	ug/L	
NIRS finished water										
Ambient Water Occurrence Data	·									
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year			•	Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	95% of Detects	Units for Mag data		Notes
PDP finished water	138	14	10.1	0.50	4.42			ug/L	Pesticide Data I	Program (USDA); 2001 - FOR METOLACHLOR OA
PDP finished water	404	152	37.6	0.02	1.41			ug/L	2002 - FOR ME	TOLACHLOR OA
FOR METOLACHLOR - PARENT	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	Units for Mag data		Notes
CAL DHS	7,345	15	0.2	0.05	0.7	0.06	0.1	ug/L	Drinking water r http://www.cdph aspx	nonitoring; n.ca.gov/certlic/drinkingwater/Pages/Chemicalcontaminants.
STORET	2,082	676	32.47	0.00867	86	0.19	1.4	ug/L		
HRL Ratios (HRL/NCOD R290%)		Non-c	ancer: 3,210			Cancer	r:	1	NCOD data for	metolachlor - parent
Production	Amount Range	Units	Year						1	
		lbs/yr	1998							
CUSIUR Production Data		lbs/yr	2002							
Use	Pesticide degrada	ate								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time								
K _{OC} , Organic Carbon Partition Coefficient		L/kg								
log K _{OW} , Octanol Water Partition Coeff.		unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant		atm-m ³ /mol								
Water Solubility		mg/L								
% water PBT profiler										

Contaminant:	Microcystin-LR]		Attribute	Scores		3-model Categorical Prediction
Substance Key:	76859				Potency	Severity	Prevalence	Magnitude	L?
Contaminant ID (CASRN):	101043372]	9	3	10 Scores based o	4 n supplemental data	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									NC HRL/AWWARF Typical Range MAX: 0.21
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose		
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose	•	
EPA HA RfD		mg/kg-d					Reference Dose	•	
RAISHE RfD		mg/kg-d					Reference Dose		
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	vel	
JMPR, maximum ADI		mg/kg-d					Acceptable Dail	y Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Dail	y Intake	
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value	0.000003	mg/kg-d	2006	Liver effects			No chronic ora		EL 3 ug/kg-d. Ueno, Y., Y. Makita, S. Nagata et al. 1999. nicrocystin-LR, a cyanobacterial hepatoxin, in female
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	fect Level	
Supplemental NOEL		mg/kg-d					Supplemental D	ata	
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observe	d Adverse Effect Level	
Supplemental LOAEL		mg/kg-d					Supplemental D	ata	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?		Y/N							
Is the contaminant on a list of reproductive toxins?		Y/N							
EPAHA-DWEL							Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²	0.021	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
¹ Bolded data indicate value was used in attribute s	coring								
² For the CCL process HRLs were calculated by con	nverting the RfD or ot	her dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70) Kg adult, and a Rel	ative Source Contrib	ution of 20%. For ca	cinogens, the concentration at t	he 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year			•	Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
US and Canadian drinking water (bloom area, source, finished water)	677	542	80		0.1			ug/L	Maximum of ty	pical range of detects (AWWARF, Carmichael)
US and Canadian drinking water (bloom area, source, finished water)	677	542	80	0.002	1,200			ug/L	Maximum and r	ninumum of detects (AWWARF, Carmichael)
HRL Ratios (HRL/AWWARF Typical Range MAX)		Non-c	ancer: 0.21			Cancer				
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
		lbs/yr	2002							
Use	Cyanobacterial to	xin								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time								
K _{OC} , Organic Carbon Partition Coefficient		L/kg								
log K _{OW} , Octanol Water Partition Coeff.		unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant		atm-m ³ /mol								
Water Solubility		mg/L								

Molinate CCL 3 Contaminant Information Sheet

Contaminant:	Molinate			1		Attribute	Scores		3-model Categorical Prediction		
Substance Key:	12912]	Potency	Severity	Prevalence M	agnitude	L?		
Contaminant ID (CASRN):	2212671				6	7	1	8	HRL Ratio(s)		
HEALTH EFFECTS DATA ¹									NC HRL/UCMR 90%: 2.46		
Non-cancer data	Value	Units	Date		Critical Effect				Notes		
EPA OPP RfD	0.001	mg/kg-d	2001	Degeneration/demye atrophy/reserve cell b			Reference Dose; Basis LOAEL = 0.3 mg/kg-d, UF = 300, 2-year rat study. A Determination of the Existence of a Common Mechanism of Toxicity and a Screening Level Cumulative Food Risk Assessment, December 2001. OPP issued RfD as part of health assessment not the RED; http://epa.gov/oppsrrd1/cumulative/thiocarb.pdf				
EPA IRIS (ITER) RfD	0.002	mg/kg-d	1988	Reproductive toxici reduced number of number of resorptic	viable fetuses/lit			asis NOEL 0.2 mg/kg	-d; UF = 100. Stauffer Chemical Co., 1981		
EPA HA RfD		mg/kg-d					Reference Dose				
RAISHE RfD	0.002	mg/kg-d					Reference Dose				
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Level				
JMPR, maximum ADI		mg/kg-d					Acceptable Daily Inte	ake			
CEDIADI, ADI		mg/kg-d					Acceptable Daily Inte	ake			
ITER, TDI							Tolerable Daily Intak	e			
Supplemental RfD-like value							Supplemental Data				
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Effect	Level			
Supplemental NOEL		mg/kg-d					Supplemental Data				
RTECS Lowest Oral Chronic LOAEL	13.1	mg/kg-d		Endocrine - other cha Nutritional and Gross decrease			translation, see HYS		3 week study in rat; GISAAA Gigiena i Sanitariya. For English arodnaya Kniga, 113095 Moscow, USSR) V.1- 1936-		
Supplemental LOAEL		mg/kg-d					Supplemental Data				
HSDB Lowest Oral LD50		mg/kg									
CTDJPN Lowest Oral LD50		mg/kg									
RTECS Lowest Oral LD50		mg/kg									
Cancer Data											
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L									
RAISHE Slope Factor		(mg/kg-d) ⁻¹									
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹									
EPA Carcinogen classification											
IARC Carcinogen Classification											
Other Supporting Data											
Is contaminant on list of carcinogens?		Y/N									
Is the contaminant on a list of reproductive toxins?		Y/N									
EPAHA-DWEL							Drinking Water Equiv	valent Level			
Health Reference Level (HRL) ²	14	ug/L									
Health Reference Level (HRL) ² cancer		ug/L									
¹ Bolded data indicate value was used in attribute s	coring										
² For the CCL process HRLs were calculated by co	nverting the RfD or o	ther dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70) Kg adult, and a Re	elative Source Contribut	ion of 20%. For carcino	gens, the concentration a	at the 10 ⁻⁶ cancer risk was used.		

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water	3,621	1	0.03	5.7	5.7	5.7	5.7	5.7	ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data								·		
NAWQA ambient water	7,118	120	1.68	0.001	200	0.0372	3.41	47.9	ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total	3,669,398	lbs/yr	6	States	1997					
TRI Release - surface water	115	lbs/yr	1	States	2004					
TRI Release - total	2,089	lbs/yr	2	States	2004					
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	95% of Detects	Units		Notes
PPMP ambient water		1	0.3		0.004			ug/L	Pesticide Pilot N	Iontoring Program (USGS/EPA)
HRL Ratios (HRL/UCMR 90%)		Non-o	ancer: 2.46			Cance	r:			
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
		lbs/yr	2002							
Use	Herbicide (HSDB)								
Environmental Fate Parameters	Value	Units	Degradation code					Notes		
T _{1/2} , Half life	40-160	days	BST	BST = biodegrades so	ometimes/recalc	itrant				
K _{oc} , Organic Carbon Partition Coefficient	80-120	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	3.21	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	4.10E-06	atm-m ³ /mol								
Water Solubility	970	mg/L								
% water PBT profiler	19									

Contaminant:	Molybdenum]		Attribute	Scores		3-model Categorical Prediction
Substance Key:	18825				Potency	Severity	Prevalence		L?
Contaminant ID (CASRN):	7439987				5	5	9	8	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									NC HRL/NIRS 90%: 1.17
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dos	e	
EPA IRIS (ITER) RfD	0.005	mg/kg-d	1992	increased uric acid	levels		Reference Dos d	se; Koval'skiy et al., 1	1961; oral study in humans; UF = 30; Basis LOAEL = 0.14 mg/kd-
EPA HA RfD	0.005	mg/kg-d	2006				Reference Dos	e	
RAISHE RfD	0.005	mg/kg-d					Reference Dos	e	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	evel	
JMPR, maximum ADI		mg/kg-d					Acceptable Dai	ily Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Dai	ily Intake	
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value	0.03	mg/kg-d		Effects on repro & fet gestational weight ga breed). Renal failure,	in, prolonged est	rus cycle, failure to	Supplemental [Data; UL; IOM	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	Effect Level	
Supplemental NOEL		mg/kg-d					Supplemental [
RTECS Lowest Oral Chronic LOAEL	0.5	mg/kg-d		Liver - other changes changes, Nutritional a decreased weight ga	and Gross Metab		veshestva. Neo substances cor	organicheskie soediner	el; 19 week oral study in rabbits; VCVN5 "Vrednie chemichescie nia elementov V-VII groopp" (Hazardous substances. Inornanic ements), Bandman A.L. et al., Chimia, 1989.
Supplemental LOAEL		mg/kg-d					Supplemental [Data	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification	D		1993				Cancer classifie identified for po		screening, but no related quantitative cancer risk data were
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?		Y/N							
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Teratogen List			UMD		
EPAHA-DWEL	0.2	mg/L	2006				Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²	35	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
¹ Bolded data indicate value was used in attribute s	scoring								
² For the CCL process HRLs were calculated by co	nverting the RfD or o	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	elative Source Contribu	ition of 20%. For ca	arcinogens, the concentra	ation at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes		
Finished Water Occurrence Data								•				
UCMR finished water									ug/L			
NCOD Round 1 finished water									ug/L			
NCOD Round 2 finished water									ug/L			
NIRS finished water	989	77	7.79	6.1	180	10	30	110	ug/L			
Ambient Water Occurrence Data								•				
NAWQA ambient water									ug/L			
NREC ambient surface water									ug/L	National Reconnaissance		
NREC ambient ground water									ug/L	National Reconnaissance		
NREC ambient surface water									ug/L	National Aggregate		
NREC ambient ground water									ug/L	National Aggregate		
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes			
NCFAP Pesticide Application - total		lbs/yr		States								
TRI Release - surface water		lbs/yr		States								
TRI Release - total		lbs/yr		States								
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes		
HRL Ratios (HRL/NIRS 90%)		Non-c	ancer: 1.17			Cance	r:					
Production	Amount Range	Units	Year									
CUSIUR Production Data		lbs/yr	1998									
		lbs/yr	2002									
Use	Use data for moly	bdenum trioxide:		emical reagent (HSDB)); naturally-occu	rring						
Environmental Fate Parameters	Value	Units	Degradation Code	Notes								
T _{1/2} , Half life		length of time	BST	assumed persistent; A	II use and env. I	ate data for molybder	um trioxide; BS	T = biodegrades	sometimes/recal	sitrant		
K _{OC} , Organic Carbon Partition Coefficient		L/kg										
log K _{ow} , Octanol Water Partition Coeff.		unitless										
Kd, Distribution coefficient		L/kg										
HLC, Henry's Law Constant		unitless										
Water Solubility	1,066	mg/L		All use and env. fate data for molybdenum trioxide								
% water PBT profiler												

<table-container> Babe Product of Address Bay of Mathematical State Bay of Mathematical State<th>Contaminant:</th><th>Nitrobenzene</th><th></th><th></th><th>1</th><th></th><th>Attribute</th><th>Scores</th><th></th><th>3-model Categorical Prediction</th></table-container>	Contaminant:	Nitrobenzene			1		Attribute	Scores		3-model Categorical Prediction				
Part and to [CASk0b): Description								Prevalence		NI 2				
MARCENTERS DESCRIPTION OF A D	Contaminant ID (CASRN):	98953]	6	3	1	10					
EPA OPP RD Implyod Implyod Implyod Reference Doces Reference Doces EPA RRS (ITER) RD 0.002 mglyod 2009 Increased retioulocytes and methemagiobinemal Reference Doces Reference Doces Reference Doces Tel Julion International State Control Reference Doce	HEALTH EFFECTS DATA ¹													
Autor Autor Autor Autor Reference Dose; NTP, 1983; subdravior at study; UF = 1.00; Basis BMDL = 1.8 mg/kqd EPA NA KD mg/kqd Im Reference Dose; Reference Dose; ENA NA KD mg/kqd Im Reference Dose; Reference Dose; AISDR TEPS, MRL Im mg/kqd Im Reference Dose; Reference Dose; AISDR TEPS, MRL Im mg/kqd Im Reference Dose; Reference Dose; AISDR TEPS, MRL Im mg/kqd Im Reference Dose; Reference Dose; AISDR TEPS, MRL Im mg/kqd Im Reference Dose; Reference Dose; AISDR TEPS, MRL Im mg/kqd Im Reference Dose; Reference Dose; AISDR TEPS, MRL Im mg/kqd Im Reference Dose; Reference Dose; Stapementing RDS-barvink Im Im <td>Non-cancer data</td> <td>Value</td> <td>Units</td> <td>Date</td> <td></td> <td>Critical Effect</td> <td></td> <td></td> <td></td> <td>Notes</td>	Non-cancer data	Value	Units	Date		Critical Effect				Notes				
PA HA R0ImpliedImpliedReference DoseRASHE RD0.0005mg/kgdCReference DoseRASHE RD0.0005mg/kgdCReference DoseATSDR (TTER), MR.Impliedmg/kgdCAnoreal DoseATSDR (TTER), MR.Impliedmg/kgdCAnoreal DoseATSDR (TTER), MR.Impliedmg/kgdCAnoreal DoseCEDIA(J, ADIImpliedmg/kgdCAnoreal DoseCEDIA(J, ADIImpliedImpliedCAnoreal DoseSupplemental RD-line valueImpliedImpliedCSupplemental DoseSupplemental NDELImpliedImg/kgdImpliedSupplemental DaseSupplemental NDELImg/kgdImg/kgdImpliedSupplemental DaseSupplemental IDARLImg/kgdImg/kgdImg/kgdImg/kgdSupplemental IDARLImg/kgdImg/kgdImg/kgdImg/kgdSupplemental IDARLImg/kgdImg/kgdImg/kgdImg/kgdSupplemental IDARLImg/kgdImg/kgdImg/kgdImg/kgdSupplemental IDARLImg/kgdImg/kgdImg/kgdImg/kgdSupplemental IDARLImg/kgdImg/kgdImg/kgdImg/kgdSupplemental IDARLImg/kgdImg/kgdImg/kgdImg/kgdSupplemental IDARLImg/kgdImg/kgdImg/kgdImg/kgdSupplemental IDARLImg/kgdImg/kgdImg/kgdImg/kgdSupplemental IDARLImg/kgdImg/kgdImg/k	EPA OPP RfD		mg/kg-d					Reference Dose	9					
RASHE RN 0.005 mgkgd Media Reference Dose AISDR (TER), MRL 1 mgkgd 1 Minimal Rok Level AISDR (TER), MRL 1 mgkgd 1 Acceptable Daly Intake CEDAD, ADI 1 mgkgd 1 Acceptable Daly Intake Speptenetia RD-like value 1 1 1 Interaste Daly Intake Speptenetia RD-like value 1 mgkgd 1 No Observed Effect Level Speptenetia RD-like value 1 mgkgd 1 Lowest Observed Adverse Effect Level Speptenetia RD-like value 1 mgkgd 1 Lowest Observed Adverse Effect Level Speptenetia RD-like value 1 mgkgd 1 Lowest Observed Adverse Effect Level Speptenetia RD-like value 1 mgkgd 1 Lowest Observed Adverse	EPA IRIS (ITER) RfD	0.002	mg/kg-d	2009	Increased reticuloc	ytes and mether	naglobinemia	Reference Dos	e; NTP, 1983; subchro	nic rat study; UF = 1,000; Basis BMDL = 1.8 mg/kg-d				
ATSOR (TER), MRL Implyod Minima Hisk Lovel JMPR, maximum ADI Implyod Acceptable Daily Intake GEDADI, ADI Implyod Implyod Acceptable Daily Intake CEDADI, ADI Implyod Implyod Acceptable Daily Intake Supplemental RID-Me value Implyod Implyod Supplemental Data Supplemental LOAEL Implyod Implyod Implyod Supplemental LOAEL Implyod Imply	EPA HA RfD		mg/kg-d					Reference Dose	9					
MPR, maximum ADI Mode mgkq-d Acceptable Daily Intake CEDADI, ADI Mgkq-d Mgkq-d Acceptable Daily Intake CEDADI, ADI Mgkq-d Mgkq-d Teleable Daily Intake Spptemental RD-like value Mgkq-d Mgkq-d Spptemental Data Structure NDEL Mgkq-d Mgkq-d No Observed Effect Level Supptemental NDEL Mgkq-d Mgkq-d No Observed Effect Level Supptemental NDEL Mgkq-d Mgkq-d No Observed Effect Level Supptemental NDEL Mgkq-d No Mgkq-d No Observed Mixerse Effect Level Supptemental LOAEL Mgkq-d No Mgkq-d No Observed Mixerse Effect Level Supptemental LOAEL Mgkq-d No Mgkq-d No Mgkq-d CENAE Nore Store Structure Nore Store Store Store Store Store	RAISHE RfD	0.0005	mg/kg-d					Reference Dose	9					
CEDADI, ADI Implicit Implicit Implicit CEDADI, ADI Implicit Implicit Acceptable Daily Intake Supplemental RD-like value Implicit Implicit Supplemental Data Supplemental RD-like value Implicit Implicit Supplemental Data CTDIPN Highest Chronic NOEL Implicit Implicit Implicit Supplemental Data Supplemental NOEL Implicit Implicit Implicit Supplemental Data Supplemental NOEL Implicit Implicit Implicit Supplemental Data Supplemental NOEL Implicit Implicit Implicit Implicit Supplemental LOAEL Implicit Implicit Implicit Implicit Supplemental LOAEL Implicit Implicit Implicit Implicit Supplemental LOSD Implicit Implicit Implicit Implicit Supplemental Data Implicit Implicit Implicit Implicit Supplemental Data Implicit Implicit Implicit Implicit	ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	vel					
TER, T01 CM CM Televale Supplemental RD-like value CM M Supplemental RD-like value Supplemental RD-like value CTD_PN Highest Chronic NOEL M mg/kg.d CM No Observed Effect Level Supplemental NOEL M mg/kg.d CM Supplemental Data Supplemental NOEL M mg/kg.d CM Supplemental Data Supplemental LOAEL M mg/kg.d CM Supplemental Data CTD/PN Lowest Oral LDS0 M mg/kg M Supplemental Data CTD/PN Lowest Oral LDS0 M mg/kg M Supplemental Data CACer Data Mg/kg.d^1 M M Supplemental Data EPA Lifetine Cancer Risk 10 ⁴ M mg/kg.d^1 M Supplemental Data	JMPR, maximum ADI		mg/kg-d					Acceptable Dail	y Intake					
Supplemental RD-like value Image Image Image Supplemental Data CTDJPN Highest Chronic NOEL Image Image No Observed Effect Level Supplemental NOEL Image Image Supplemental Data Supplemental NOEL Image Image Image Supplemental Data Supplemental LOAEL Image Image Image Image Image Supplemental LOAEL Image Image <td>CEDIADI, ADI</td> <td></td> <td>mg/kg-d</td> <td></td> <td></td> <td></td> <td></td> <td>Acceptable Dail</td> <td>y Intake</td> <td></td>	CEDIADI, ADI		mg/kg-d					Acceptable Dail	y Intake					
CTDJPN Highest Chronic NOEL mg/kgd mg/kgd Modeserved Effect Level Supplemental NOEL mg/kgd General Data Supplemental Data RTECS Lowest Oral Chronic LOAEL mg/kgd General Data Lowest Observed Adverse Effect Level Supplemental LOAEL mg/kgd General Data Supplemental Data Supplemental LOAEL mg/kgd General Data Supplemental Data CTDJPN Lowest Oral LD50 mg/kg General Data Supplemental Data CTDJPN Lowest Oral LD50 mg/kg General Data General Data CTDJPN Lowest Oral LD50 mg/kg General Data General Data CTDJPN Lowest Oral LD50 mg/kg General Data General Data CTDJPN Lowest Oral LD50 mg/kg General Data General Data CTDJPN Lowest Oral LD50 mg/kg General Data General Data CACC Data mg/kg-di Mg/kg General Data General Data RAISHE Slope Factor (oral) mg/kg-di General Data General Data General Data EPA Carcinogen Classification D 1990 General Data General Data General Data	ITER, TDI							Tolerable Daily	Intake					
NoteNoteNoteNoteNoteRTECS Lowest Oral DAELmg/kg-dLowest Observed Adverse Effect LevelSupplemental LOAELmg/kg-dLowest Observed Adverse Effect LevelSupplemental LOAELmg/kg-dSupplemental DataSupplemental D50mg/kgSupplemental DataCTDJPN Lowest Oral LD50mg/kgRTECS Lowest Oral LD50mg/kgCacer Datamg/kgEPA Lifetime Cancer Risk, 10 ⁴ mg/kgRAISHE Slope Factor (oral)(mg/kg-d) ¹ CHA Slope Factor (oral)mg/kg1990Chacer Data1990Cancer classifications were used for screening, but no related quantitative cancer risk data were udentified for potency scring.LRC Carcinogen ClassificationD1990Charcer Data1990EPA Carcinogen ClassificationD1990Cancer classification were used for screening, but no related quantitative cancer risk data were udentified for potency scring.LRC Carcinogen ClassificationD1990Charcer Logen ClassificationPY/NIs contaminant on list of reproductiveYY/NEPAHA-DWELImage Scringen ListUMDEPAHA-DWELImage Scringen ListDiriking Water Equivalent Level	Supplemental RfD-like value					Supplemental Data								
RTECS Lowest Oral Chronic LOAELmg/kg-dmg/kg-dLowest Oral Chronic LOAELmg/kg-dLowest Oral LOAELsupplemental LOAELmg/kg-dLowest Oral LDAELsupplemental DataSupplemental LOAELmg/kg-dmg/kg-dCSupplemental DataHSDB Lowest Oral LD50mg/kgmg/kgCCCTDJPN Lowest Oral LD50mg/kgCCCancer Datamg/kgCCCCancer Datamg/kgCCCCACAET Risk, 10 ⁴ mg/kgCCCCHIAB Slope Factor(mg/kg-d) ¹ CCCCHIAB Slope FactorDmg/kgCCCCHIA Slope FactorD1990CCCCACAET JARCZ1990CCCChrose Chainmant on list of reproductiveYY/NTeratogen ListMDEPA LADWELY/NTeratogen ListMDCEPALA-DWELLowest Oral Lowest Oral Chrose Cancer Cause Chrose Cancer Cause	CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Et	No Observed Effect Level					
Supplemental LOAELNoNoNoSupplemental DataSupplemental LOAELmg/kgMg/kgSupplemental DataHSDB Lowest Oral LDS0Mg/kgMg/kgMg/kgMg/kgCTD.JPN Lowest Oral LDS0Mg/kgMg/kgMg/kgMg/kgRTECS Lowest Oral LDS0Mg/kgMg/kgMg/kgMg/kgCancer DataMg/kgMg/kgMg/kgMg/kgEPA Lifetime Cancer Risk, 10 ⁻⁴ Mg/kgMg/kgMg/kgCHA Stope Factor (ral)Mg/kgMg/kgMg/kgCHA Carcinogen classificationD1996Mg/kgARC Carcinogen Classification2B1996Mg/kgCotaminant on list of carcinogens?YY/NMg/kgE he contaminant on a list of reproductiveYY/NTeratogen ListEPALA-DWELMg/kgMg/kgDiriking Water Equivalent Level	Supplemental NOEL		mg/kg-d					Supplemental D	ata					
HSDB Lowest Oral LD50mg/kgmg/kgControlCTDJPN Lowest Oral LD50mg/kgControlControlRTECS Lowest Oral LD50mg/kgControlControlCarcer Datamg/LMg/LControlControlEPA Lifetime Cancer Risk, 10 ⁻⁴ mg/LMg/LControlCarcer Datamg/kgControlControlEPA Lifetime Cancer Risk, 10 ⁻⁴ mg/LControlControlCarcer Datamg/LMg/LControlEPA Lifetime Cancer Risk, 10 ⁻⁴ mg/LControlControlCarcer Carcinogen CassificationControl(mg/kg-d) ⁻¹ ControlCHHA Slope Factor (oral)(mg/kg-d) ⁻¹ ControlCancer classifications were used for screening, but no related quantitative cancer risk data were controlCHHA Slope Factor (cral)D1990ControlCArcinogen ClassificationD1990ControlIARC Carcinogen Classification2B1996ControlChter Supporting DataIs the contaminant on list of reproductiveYY/NIs contaminant on a list of reproductiveYY/NTeratogen ListEPAHA-DWELVY/NTeratogen ListUMDEPAHA-DWELVVNDrinking Water Equivalent Level	RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observed Adverse Effect Level						
CTDJPN Lowest Oral LD50 Img/kg Img/kg Img/kg Img/kg RTECS Lowest Oral LD50 img/kg Img/kg Img/kg Img/kg Caccr Data img/kg Img/kg Img/kg Img/kg EPA Lifetime Cancer Risk, 10 ⁻⁴ mg/L Img/kg Img/kg Img/kg Caccr Data img/kg Img/kg Img/kg Img/kg Img/kg EPA Lifetime Cancer Risk, 10 ⁻⁴ mg/L Img/kg Img/kg Img/kg Img/kg CHHA Slope Factor Img/kg img/kg Img/kg Img/kg Img/kg Img/kg OEHHA Slope Factor (oral) Img/kg Img/kg Img/kg Img/kg Img/kg Img/kg Img/kg IARC Carcinogen classification D Img/kg Img/kg <td>Supplemental LOAEL</td> <td></td> <td>mg/kg-d</td> <td></td> <td></td> <td></td> <td></td> <td>Supplemental D</td> <td>ata</td> <td></td>	Supplemental LOAEL		mg/kg-d					Supplemental D	ata					
RTECS Lowest Oral LD50 mg/kg odd mg/kg Cancer Data mg/L mg/L Intervention EPA Lifetime Cancer Risk, 10 ⁻⁴ mg/L mg/L Intervention RAISHE Slope Factor (mg/kg-d) ⁻¹ Intervention Intervention OEHHA Slope Factor (oral) (mg/kg-d) ⁻¹ Intervention Intervention IPA Carcinogen classification D 1990 Cancer classifications were used for screening, but no related quantitative cancer risk data were identified for potency scoring. IRC Carcinogen classification 2B 1996 Cancer classifications were used for screening, but no related quantitative cancer risk data were identified for potency scoring. IRC Carcinogen classification 2B 1996 Cancer classifications were used for screening, but no related quantitative cancer risk data were identified for potency scoring. IRC Carcinogen Classification 2B 1996 Cancer classification score sco	HSDB Lowest Oral LD50		mg/kg											
Cancer Data mg/L mg/L mg/L mg/L EPA Lifetime Cancer Risk, 10 ⁻⁴ mg/L mg/L cancer Cancer Risk, 10 ⁻⁴ mg/L cancer Cancer Risk, 10 ⁻⁴ mg/L cancer Cancer Risk, 10 ⁻⁴ cancer Cancer Risk, 10 ⁻⁴ cancer Cancer Risk, 10 ⁻⁴ cancer Cancer Cancer Risk, 10 ⁻⁴ cancer Canc	CTDJPN Lowest Oral LD50		mg/kg											
EPA Lifetime Cancer Risk, 10 ⁴ mg/L mg/L mg/L RAISHE Slope Factor (mg/kg-d) ⁻¹ Imp/L Imp/L Imp/L OEHHA Slope Factor (oral) (mg/kg-d) ⁻¹ Imp/L Imp/L Imp/L OEHHA Slope Factor (oral) (mg/kg-d) ⁻¹ Imp/L Imp/L Imp/L EPA Carcinogen classification D (mg/kg-d) ⁻¹ Imp/L Imp/L Imp/L IARC Carcinogen Classification 2B 1990 Imp/L Imp/L Imp/L Imp/L Other Supporting Data 1996 Imp/L Imp/L Imp/L Imp/L Imp/L Is contaminant on list of reproductive to reproductive to xins? Y Y/N Imp/L Imp/L<	RTECS Lowest Oral LD50		mg/kg											
RAISHE Slope Factor(mg/kg-d)^1(mg/kg-d)^1(mg/kg-d)^1OEHHA Slope Factor (oral)(mg/kg-d)^1(mg/kg-d)^1Cancer classifications were used for screening, but no related quantitative cancer risk data were identified for potency scoring.EPA Carcinogen classificationD1990Cancer classifications were used for screening, but no related quantitative cancer risk data were identified for potency scoring.IARC Carcinogen Classification2B1996Cancer classificationOther Supporting DataV/N1996CACART, IARCIs contaminant on list of carcinogens?YY/NTeratogen ListIs the contaminant on a list of reproductive toxins?YY/NTeratogen ListEPAHA-DWELVV/NMDinking Water Equivalent Level	Cancer Data													
OEHHA Slope Factor (oral) (mg/kg-d) ⁻¹ (mg/kg-d) ⁻¹ Cancer classifications were used for screening, but no related quantitative cancer risk data were identified for potency scoring. EPA Carcinogen classification D 1990 Cancer classifications were used for screening, but no related quantitative cancer risk data were identified for potency scoring. IARC Carcinogen Classification 2B 1996 Cancer classifications Other Supporting Data Cancer classification Cancer classification Cancer classification Is contaminant on list of carcinogens? Y Y/N Cancer classification CACART, IARC Is the contaminant on a list of reproductive ty Y Y/N Teratogen List UMD EPAHA-DWEL Low Low Drinking Water Equivalent Level Drinking Water Equivalent Level	EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L											
EPA Carcinogen classification D 1990 Cancer classifications were used for screening, but no related quantitative cancer risk data were identified for potency scoring. IARC Carcinogen Classification 2B 1996 Image: Cancer classification screening, but no related quantitative cancer risk data were identified for potency scoring. Other Supporting Data Teratogen List Image: Cancer classification screening, but no related quantitative cancer risk data were identified for potency scoring. Is contaminant on list of carcinogens? Y Y/N Image: Cancer classification screening, but no related quantitative cancer risk data were identified for potency scoring. Is the contaminant on a list of reproductive training of the contaminant on a list of reproductive training. Y Y/N Teratogen List UMD EPAHA-DWEL Image: Cancer classification training water Equivalent Level Dirinking Water Equivalent Level Dirinking Water Equivalent Level	RAISHE Slope Factor		(mg/kg-d) ⁻¹											
EPA Calcilitized in dessification D I 1990 identified for potency scoring. IARC Carcinogen Classification 2B 1996 Image: Calcilitized for potency scoring. Other Supporting Data Image: Calcilitized for potency scoring. Image: Calcilitized for potency scoring. Is contaminant on list of carcinogens? Y Y/N Image: Calcilitized for potency scoring. Is the contaminant on a list of reproductive toxins? Y Y/N Image: Calcilitized for potency scoring. EPAHA-DWEL Image: Calcilitized for potency scoring. Image: Calcilitized for potency scoring. Image: Calcilitized for potency scoring.	OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹											
IARC Carcinogen Classification 2B 1996 International control of carcinogen con	EPA Carcinogen classification	D		1990						reening, but no related quantitative cancer risk data were				
Is contaminant on list of carcinogens? Y Y/N CACART, IARC Is the contaminant on a list of reproductive toxins? Y Y/N Teratogen List UMD EPAHA-DWEL Image: Contemport of the conte	IARC Carcinogen Classification	2B		1996										
Is the contaminant on a list of reproductive Y Y/N Teratogen List UMD EPAHA-DWEL O IN INFORMATION INFO	Other Supporting Data													
toxins? T T T EPAHA-DWEL Image: Comparison of the second se	Is contaminant on list of carcinogens?	Y	Y/N					CACART, IARC						
EPAHA-DWEL Drinking Water Equivalent Level		Y	Y/N		Teratogen List			UMD						
Health Reference Level (HRL) ² 14 ug/L ug/L								Drinking Water	Equivalent Level					
	Health Reference Level (HRL) ²	14	ug/L											
Health Reference Level (HRL) ² cancer ug/L	Health Reference Level (HRL) ² cancer		ug/L											
¹ Bolded data indicate value was used in attribute scoring	¹ Bolded data indicate value was used in attribute s	coring			·			·						
² For the CCL process HRLs were calculated by converting the RfD or other dose to ug/L, assuming 2 L/day of water consumed by a 70 Kg adult, and a Relative Source Contribution of 20%. For carcinogens, the concentration at the 10 ⁻⁶ cancer risk was used.	² For the CCL process HRLs were calculated by co	nverting the RfD or of	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	elative Source Contrib	ution of 20%. For ca	rcinogens, the concentration	on at the 10 ⁻⁶ cancer risk was used.				

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes	
Finished Water Occurrence Data											
UCMR finished water	3,064	2	0.065	21.6	100	60.8	100	100	ug/L	Analyzed under UCMR 1, List 1, Assessment Monitoring with detection limit of 10 ug/L.	
NCOD Round 1 finished water									ug/L		
NCOD Round 2 finished water									ug/L		
NIRS finished water									ug/L		
Ambient Water Occurrence Data											
NAWQA ambient water									ug/L		
NREC ambient surface water									ug/L	National Reconnaissance	
NREC ambient ground water									ug/L	National Reconnaissance	
NREC ambient surface water									ug/L	National Aggregate	
NREC ambient ground water									ug/L	National Aggregate	
Application/Release	Amount Released	Units	Number of States	Units	Year Notes						
NCFAP Pesticide Application - total		lbs/yr		States							
TRI Release - surface water	60	lbs/yr	1	States	2004						
TRI Release - total	350,301	lbs/yr	14	States	2004						
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes	
UCMR finished water	338	0	0	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Analyzed under 0.5 ug/L.	UCMR 1, List 2, Screening Survey with detection limit of	
HRL Ratios (HRL/UCMR AM 90%)		Non-c	ancer: 0.14			Cance	er:				
Production	Amount Range	Units	Year								
CUSIUR Production Data	> 1B	lbs/yr	1998								
COSIOR Production Data	> 1B	lbs/yr	2002								
Use	Solvent (NTP)										
Environmental Fate Parameters	Value	Units	Degradation Code					Notes			
T _{1/2} , Half life	15	days	BS	BS = biodegrades slo	wly						
K _{oc} , Organic Carbon Partition Coefficient	30.6-370	L/kg									
log K _{OW} , Octanol Water Partition Coeff.	1.85	unitless									
Kd, Distribution coefficient		L/kg									
HLC, Henry's Law Constant	2.40E-05	atm-m ³ /mol									
Water Solubility	1,800	mg/L									
% water PBT profiler	31										

Contaminant	Nitroglycerin			1		Attribute	Scores			3-model Categorical Prediction	
Substance Key:	2252				Potency	Severity		agnitude		L? - L	
Contaminant ID (CASRN):	55630			J	7	6	7	6	_		
HEALTH EFFECTS DATA ¹										HRL Ratio(s) No water data	
Non-cancer data	Value	Units	Date		Critical Effect					Notes	
	Value		Date		United Enect					10103	
EPA OPP RfD		mg/kg-d					Reference Dose				
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose				
EPA HA RfD		mg/kg-d					Reference Dose				
RAISHE RfD		mg/kg-d					Reference Dose				
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Level				
JMPR, maximum ADI		mg/kg-d					Acceptable Daily Inta	ake			
CEDIADI, ADI		mg/kg-d					Acceptable Daily Inta	ake			
ITER, TDI							Tolerable Daily Intak	e			
Supplemental RfD-like value							Supplemental Data				
CTDJPN Highest Chronic NOEL		mg/kg-d				No Observed Effect Level					
Supplemental NOEL		mg/kg-d					Supplemental Data				
RTECS Lowest Oral Chronic LOAEL	0.125	mg/kg-d		Cardiac - cardiomyo - EKG changes not Biochemical - Enzyr in blood or tissue le	diagnostic of sp me inhibition, in	ecified effects, duction, or change	Toksikologiya (Mos	cow). For Engli	ish translatio	k oral study in rats; FATOAO Farmakologiya i ın, see PHTXA6 and RPTOAN. (V/O R) V.2- 1939- Volume(issue)/page/year	
Supplemental LOAEL	0.008	mg/kg-d					Supplemental Data;	RTECS LOAEL, a	acute human	study	
HSDB Lowest Oral LD50		mg/kg									
CTDJPN Lowest Oral LD50		mg/kg									
RTECS Lowest Oral LD50	105	mg/kg		Behavioral - somnole	nce (general dep	ressed activity)				macology and Therapeutics. (Raifu Saiensu Shuppar V.1- 1972- Volume(issue)/page/year 13,3649,1985	
Cancer Data											
EPA Lifetime Cancer Risk, 10 ⁻⁴	0.2	mg/L	1987								
RAISHE Slope Factor		(mg/kg-d) ⁻¹									
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹									
EPA Carcinogen classification											
IARC Carcinogen Classification											
Other Supporting Data											
Is contaminant on list of carcinogens?	Y	Y/N					EPA				
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Teratogen			UMD				
EPAHA-DWEL							Drinking Water Equiv	valent Level			
Health Reference Level (HRL) ²	0.292	ug/L									
Health Reference Level (HRL) ² cancer	2	ug/L									
¹ Bolded data indicate value was used in attribute so	coring			·			•				
² For the CCL process HRLs were calculated by cor	verting the RfD or ot	her dose to ug/L, a	assuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	elative Source Contribu	tion of 20%. For carcinog	gens, the concentra	ation at the 10	-6 cancer risk was used.	

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	0.2	lbs/yr	1	States	2004					
TRI Release - total	55,979	lbs/yr	9	States	2004					
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (No water data)		Nor	n-cancer:			Cancel	r.			
Production	Amount Range	Units	Year							
CUSIUR Production Data	>1M - 10M	lbs/yr	1998							
	>1M - 10M	lbs/yr	2002							
Use	Pharmaceutical/n	nedication; produ	ction of explosives	; Rocket propellants; (H	HSDB)					
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time		BF = Biodegrades Fas	st					
K _{OC} , Organic Carbon Partition Coefficient		L/kg								
log K _{OW} , Octanol Water Partition Coeff.	1.62	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	9.87E-08	atm-m3/mol								
Water Solubility	1,380	mg/L								

Contaminant:	N-Methyl-2-pyrro	olidone]		Attribute	Scores		3-model Categorical Prediction
Substance Key:	9980				Potency	Severity	Prevalence		L?
Contaminant ID (CASRN):	872504]	3	5	10	10	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									No water data
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose	e	
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose	e	
EPA HA RfD		mg/kg-d					Reference Dose	e	
RAISHE RfD		mg/kg-d					Reference Dose	e	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	evel	
JMPR, maximum ADI		mg/kg-d					Acceptable Dai	ly Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Dai	ly Intake	
ITER, TDI		mg/kg-d					Tolerable Daily	Intake	
Supplemental RfD-like value	0.6	mg/kg-d	2001	Decreased weight g sedative effects	gain, neurobeha	vioral effects,	Tolerable Daily TDI Study #35	/ Intake; Basis NOAEL =	169 mg/kg-d, UF = 300, 90-day rat study, WHO/UNEP CICAD
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	ffect Level	
Supplemental NOEL		mg/kg-d					Supplemental D	Data	
RTECS Lowest Oral Chronic LOAEL	120	mg/kg-d		Endocrine - changes	in spleen weight	:			ITIS National Technical Information Service. (Springfield, VA Scientific & Technical Information. Volume(issue)/page/year
Supplemental LOAEL		mg/kg-d					Supplemental D	Data	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50	3,914	mg/kg		Details of toxic effect value	is not reported ot	her than lethal dose			tesearch. (Editio Cantor Verlag, Postfach 1255, W-7960 Volume(issue)/page/year 26,1581,1976
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?		Y/N							
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Teratogen			UMD; CACART		
EPAHA-DWEL							Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²	4,200	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
¹ Bolded data indicate value was used in attribute s	coring								
² For the CCL process HRLs were calculated by co	nverting the RfD or of	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70) Kg adult, and a R	elative Source Contribu	ution of 20%. For ca	rcinogens, the concentration	at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	17,972	lbs/yr	13	States	2004					
TRI Release - total	6,311,503	lbs/yr	42	States	2004					
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (No water data)		Noi	n-cancer:			Cancer				
Production	Amount Range	Units	Year							
CUSIUR Production Data	>100M - 500M	lbs/yr	1998							
COSIOR FINITUNI Data	>100M - 500M	lbs/yr	2002							
Use	Chemical industry	v solvent; solvent	for pesticide applie	cation for food packing	materials (HSD	B)				
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BF	BF = Biodegrades Fa	st					
K _{OC} , Organic Carbon Partition Coefficient		L/kg								
log K _{OW} , Octanol Water Partition Coeff.	-0.38	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	3.20E-09	atm-m ³ /mol								
Water Solubility	1,000,000	mg/L								
	1	1		i						

	N-Nitrosodiethyl	amine (NDEA)]		Attribute			3-model Categorical Prediction
	2243				Potency	Severity	Prevalence	Magnitude	L?
Contaminant ID (CASRN):	55185			1	9	8	1	2	HRL Ratio(s)
HEALTH EFFECTS DATA ¹							See also supple	mental water data	No data for calculating HRL ratio
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose		
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose	•	
EPA HA RfD		mg/kg-d					Reference Dose		
RAISHE RfD		mg/kg-d					Reference Dose	•	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	vel	
JMPR, maximum ADI		mg/kg-d					Acceptable Dail	y Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Dail	y Intake	
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value							Supplemental D	ata	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Ef	fect Level	
Supplemental NOEL		mg/kg-d					Supplemental D	ata	
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observe	d Adverse Effect Level	
Supplemental LOAEL		mg/kg-d					Supplemental D	ata	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴	0.00002	mg/L							
RAISHE Slope Factor	150	(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)	36	(mg/kg-d) ⁻¹							
EPA Carcinogen classification	B2								
IARC Carcinogen Classification	2A		1987						
Other Supporting Data									
Is contaminant on list of carcinogens?	Y	Y/N					CACART; EPA;	OEHHA; IARC; RAIS	
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Teratogen			UMD		
EPAHA-DWEL							Drinking Water I	Equivalent Level	
Health Reference Level (HRL) ²		ug/L							
Health Reference Level (HRL) ² cancer	0.0002	ug/L							
¹ Bolded data indicate value was used in attribute so	oring								
² For the CCL process HRLs were calculated by con	verting the RfD or of	ther dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	ative Source Contribution	ution of 20%. For car	rcinogens, the concentration at th	ne 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	0	lbs/yr	0	States	2004					
TRI Release - total	1,000	lbs/yr	1	States	2004					
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	Units for Mag data		Notes
CAL DHS	26	0	0	Not Detected	Not Detected	Not Detected	Not Detected	ug/L	Drinking water r http://www.cdph ts.aspx	nonitoring; n.ca.gov/certlic/drinkingwater/Pages/Chemicalcontaminan
STORET	26	0	0	Not Detected	Not Detected	Not Detected	Not Detected	ug/L		
HRL Ratios (No data for calculating HRL ratio)		No	n-cancer:			Cance	r:			
Production	Amount Range	Units	Year							
		lbs/yr	1998							
CUSIUR Production Data		lbs/yr	2002							
Use	Gasoline and lubr	icant additive; ar	ntioxidant; stabilizer	in plastics (HSDB); D	isinfection by-Pro	oduct				
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life	38	days	BS/BSA	BS = Biodegrades Slo	owly; BSA = Biod	legrades Slowly with A	Acclimation			
K _{OC} , Organic Carbon Partition Coefficient	142.7	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	0.48	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	3.63E-06	atm-m ³ /mol								
Water Solubility	106,000	mg/L								
% water PBT profiler	53									

Contaminant:	N-Nitrosodimeth	ylamine (NDMA)]		Attribute	Scores		3-model Categorical Prediction
Substance Key:	2446 62759			-	Potency	Severity	Prevalence	Magnitude	L? - L
Contaminant ID (CASRN):	62759			<u>_</u>	8	8	10 Scores based or	2 n supplemental data	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									NC HRL/CAL DHS 90%: 0.329 CAR HRL/CAL DHS 90%: 0.004
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose		
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose		
EPA HA RfD		mg/kg-d					Reference Dose		
RAISHE RfD	0.000008	mg/kg-d					Reference Dose		
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Lev	vel	
JMPR, maximum ADI		mg/kg-d					Acceptable Daily	/ Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Daily	/ Intake	
ITER, TDI							Tolerable Daily I	ntake	
Supplemental RfD-like value							Supplemental D	ata	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Ef	fect Level	
Supplemental NOEL		mg/kg-d					Supplemental D	ata	
RTECS Lowest Oral Chronic LOAEL	0.2	mg/kg-d		Immunological Includ immune response, In decrease in humoral Data - death	nmunological Incl	uding Allergic -	(Hemisphere Pu		D6 Journal of Toxicology and Environmental Health. Washington, DC 20005) V.1- 1975/76-
Supplemental LOAEL		mg/kg-d					Supplemental D	ata	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴	0.00007	mg/L					IRIS		
RAISHE Slope Factor	51	(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)	16	(mg/kg-d) ⁻¹							
EPA Carcinogen classification	B2		1986	Liver					
IARC Carcinogen Classification	2A		1987				(Vol. 17, Suppl.	7; 1987)	
Other Supporting Data									
Is contaminant on list of carcinogens?	Y	Y/N					CACART; RAIS;	EPA; OEHHA; IARC	
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Teratogen			UMD		
EPAHA-DWEL							Drinking Water E	Equivalent Level	
Health Reference Level (HRL) ²	0.056	ug/L							
Health Reference Level (HRL) ² cancer	0.00069	ug/L							
¹ Bolded data indicate value was used in attribute set									
² For the CCL process HRLs were calculated by con	nverting the RfD or ot	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	elative Source Contribu	ution of 20%. For car	cinogens, the concentration at the	e 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data	·									
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year		1		Notes	
NCFAP Pesticide Application - total	Noicubeu	lbs/yr	Olalos	States						
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	Units for Mag data		Notes
CAL DHS	409	87	21.3	0.001	440	0.009	0.17	ug/L	Drinking water http://www.cdp minants.aspx	monitoring; bh.ca.gov/certlic/drinkingwater/Pages/Chemicalconta
STORET	585	0	0	Not Detected	Not Detected	Not Detected	Not Detected	ug/L		
HRL Ratios (HRL/CAL DHS 90%)		Non-c	ancer: 0.329			Cancer:	0.004			
Production	Amount Range	Units	Year							
		lbs/yr	1998							
CUSIUR Production Data		lbs/yr	2002							
Use	Industrial solvent;	antioxidant; form	nerly in the product	tion of rocket fuel (HSE	DB); Disinfection	by-Product				
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life	38	days	BSA	PBT; BSA = Biodegra	ades Slowly with	Acclimation				
K _{oc} , Organic Carbon Partition Coefficient	12	L/kg								
log K _{ow} , Octanol Water Partition Coeff.	-0.57	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	1.82E-06	atm-m ³ /mol		@37°C						
Water Solubility	Soluble	mg/L								

	propylamine (NDP	A)						3-model Categorical Prediction
			-	Potency 7	Severity	Prevalence		NL? - L?
021047				1	0	2	2	HRL Ratio(s)
						See also supple	mental water data	CAR HRL/STORET 90%: 0.00049
Value	Units	Date		Critical Effect				Notes
	mg/kg-d					Reference Dose		
	mg/kg-d					Reference Dose		
	mg/kg-d					Reference Dose		
	mg/kg-d					Reference Dose		
	mg/kg-d					Minimal Risk Le	vel	
	mg/kg-d					Acceptable Daily	/ Intake	
	mg/kg-d					Acceptable Daily	/ Intake	
						Tolerable Daily I	ntake	
						Supplemental D	ata	
	mg/kg-d					No Observed Ef	fect Level	
	mg/kg-d					Supplemental D	ata	
	mg/kg-d					Lowest Observe	d Adverse Effect Level	
	mg/kg-d					Supplemental D	ata	
	mg/kg							
	mg/kg							
	mg/kg							
	· · ·		-					
0.0005	mg/L					IRIS		
7	(mg/kg-d) ⁻¹							
7	(mg/kg-d) ⁻¹							
B2		1987	Liver					
2B		1987						
	ı							
Y	Y/N					CACART; EPA;	RAIS; OEHHA; IARC	
Y	Y/N		Teratogen			UMD		
						Drinking Water I	Equivalent Level	
	ug/L							
0.005	ug/L							
scoring			L			l		
	8798 621647 Value Value	8798 621647 Value Units mg/kg-d mg/kg-d mg/kg-d mg/kg mg/kg mg/kg	8798 621647 Value Units Date mg/kg-d mg/kg-d mg/kg-d mg/kg mg/kg-d mg/kg mg/kg mg/kg mg/kg mg/kg 7 (mg/kg-d)^1 72 mg/kg 1987 B2 1987 Y Y/N Y Y/N Y<	8798 Control Date Image: Second Sec	Protency [821647 Potency 7 Value Units Date Critical Effect mg/kg-d	Prise Potency Severity 921647 7 8 Value Units Date Critical Effect mg/kg-d	jerge Patency Severity Prevance 121647 7 8 2 See also supple Value Units Date Critical Effect Reference Dose mg/kg.d Reference Dose Reference Dose mg/kg.d Supplemental D Reference Dose mg/kg.d Supplemental D mg/kg.d mg/kg.d	Reference Dose r 8 2 2 See also supplemental water data Mayley Onto Reference Dose mg/kg-d No Observed Idext mg/kg-d Reference Dose mg/kg-d Supplemental Data mg/kg-d

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year			1	Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	0	lbs/yr	0	States	2004					
TRI Release - total	506	lbs/yr	2	States	2004					
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	Units		Notes
CAL DHS	127	0	0	Not Detected	Not Detected	Not Detected	Not Detected	ug/L	Drinking water n http://www.cdph ts.aspx	nonitoring; n.ca.gov/certlic/drinkingwater/Pages/Chemicalcontaminan
STORET	1,309	22	1.68	0.19	20	10	10.24	ug/L		
HRL Ratios (HRL/STORET 90%)		No	n-cancer:			Cancer: 0.	.00049			
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
		lbs/yr	2002							
Use	Research chemic	al (HSDB); Disin	fection by-Product	?						
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life	38	days	BSA	BSA = Biodegrades S	lowly with Acclin	nation				
K _{OC} , Organic Carbon Partition Coefficient	130	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	1.36	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	5.38E-06	atm-m ³ /mol		@37°C						
Water Solubility	10,000	mg/L								

Contaminant	N-Nitrosodiphen	ylamine]		Attribute		3-model Categorical Prediction
Substance Key:	3193 86306			-	Potency 5	Severity 6	Prevalence Magnitude 2 1	NL
Contaminant ID (CASRN):	00300				5	6	Z 1	HRL Ratio(s)
HEALTH EFFECTS DATA ¹							See also supplemental water data	NC HRL/CAL DHS 90%: 1.84 CAR HRL/CAL DHS 90%: 0.0932
Non-cancer data	Value	Units	Date		Critical Effect			Notes
EPA OPP RfD		mg/kg-d					Reference Dose	
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose	
EPA HA RfD		mg/kg-d					Reference Dose	
RAISHE RfD	0.02	mg/kg-d		Corneal opacities, e and decreased weig		lasia of the bladde	Reference Dose; NCI 1979; Basis LOA	NEL, rat, UF=3000
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Level	
JMPR, maximum ADI		mg/kg-d					Acceptable Daily Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Daily Intake	
ITER, TDI		mg/kg-d					Tolerable Daily Intake	
Supplemental RfD-like value		mg/kg-d					Supplemental Data	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Effect Level	
Supplemental NOEL		mg/kg-d					Supplemental Data	
RTECS Lowest Oral Chronic LOAEL	20.5	mg/kg-d	1966	Nutritional and Gross weight gain	Metabolic - weig	ght loss or decrease	d Professional'nye Zabolevaniya. Labor H	17-week oral study in rabbit; GTPZAB Gigiena Truda i ygiene and Occupational Diseases. (V/O Mezhdunarodnaya 1957-1992. For publisher information, see MTPEEI
Supplemental LOAEL		mg/kg-d					Supplemental Data	
HSDB Lowest Oral LD50		mg/kg						
CTDJPN Lowest Oral LD50		mg/kg						
RTECS Lowest Oral LD50		mg/kg						
Cancer Data								
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L						
RAISHE Slope Factor	0.0049	(mg/kg-d) ⁻¹					IRIS	
OEHHA Slope Factor (oral)	0.009	(mg/kg-d) ⁻¹						
EPA Slope Factor		(mg/kg-d) ⁻¹						
EPA Carcinogen classification	B2						Cited by OEHHA	
IARC Carcinogen Classification	3		1987				Vol. 27, Suppl. 7	
Other Supporting Data							-	
Is contaminant on list of carcinogens?	Y	Y/N					CACART; EPA; OEHHA; RAIS	
Is the contaminant on a list of reproductive toxins?		Y/N						
EPAHA-DWEL							Drinking Water Equivalent Level	
Health Reference Level (HRL) ²	140	ug/L						
Health Reference Level (HRL) ² cancer	7.1	ug/L						
¹ Bolded data indicate value was used in attribute s	-							
² For the CCL process HRLs were calculated by con	nverting the RfD or ot	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70) Kg adult, and a Re	elative Source Contrib	ution of 20%. For carcinogens, the concentration	n at the 10 ⁻⁶ cancer risk was used.

OCCONTRENCE DATA										
	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data	•			+			ł	+		
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
	# Samples	# with Detects	% Samples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total	Keleuseu	lbs/yr	olaco	States	1997					
TRI Release - surface water	0	lbs/yr	0	States	2004					
TRI Release - total	14	lbs/yr	2	States	2004					
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	Units for Mag data		Notes
CAL DHS	133	1	0.75	76.2	76.2	76.2	76.2	ug/L	Drinking water r http://www.cdph ts.aspx	nonitoring; ca.gov/certlic/drinkingwater/Pages/Chemicalcontaminan
HRL Ratios (HRL/CAL DHS 90%)		Non-o	ancer: 1.84			Cancer: 0.	.0932			
Production	Amount Range	Units	Year							
	,	lbs/yr	1998							
CUSIUR Production Data	10K-500K	lbs/yr	2002							
Use			mical reagent (HSD)B). DBb						
	rabber and poly			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
	Value	Units	Degradation					Notes		
Environmental Fate Parameters	Value	Units length of time	Code	BFA = Biodegrades fa	st with acclimati	ion (BIODEG)		Notes		
T _{1/2} , Half life		length of time	Code	BFA = Biodegrades fa	st with acclimati	ion (BIODEG)		Notes		
T _{1/2} , Half life K _{OC} , Organic Carbon Partition Coefficient	Value 6,154 3.13		Code	BFA = Biodegrades fa	ist with acclimati	ion (BIODEG)		Notes		
T _{1/2} , Half life	6,154	length of time L/kg unitless	Code	BFA = Biodegrades fa	ist with acclimati	on (BIODEG)		Notes		
T _{1/2} , Half life K _{oc} , Organic Carbon Partition Coefficient log K _{OW} , Octanol Water Partition Coeff.	6,154	length of time L/kg unitless L/kg	Code	BFA = Biodegrades fa	ist with acclimati	on (BIODEG)		Notes		
$T_{1/2}$, Half life K_{OC} , Organic Carbon Partition Coefficient log K_{OW} , Octanol Water Partition Coeff. Kd, Distribution coefficient	6,154 3.13	length of time L/kg unitless	Code	BFA = Biodegrades fa	ist with acclimati	on (BIODEG)		Notes		

	N-Nitrosopyrroli	dine (NPYR)]		Attribute			3-model Categorical Prediction
Substance Key:	10160			_	Potency	Severity	Prevalence	Magnitude	
Contaminant ID (CASRN):	930552				7	8			HRL Ratio(s)
HEALTH EFFECTS DATA ¹							See also supple	mental water data	No data for calculating HRL ratio
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose	9	
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose	9	
EPA HA RfD		mg/kg-d					Reference Dose	9	
RAISHE RfD		mg/kg-d					Reference Dose	2	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	vel	
JMPR, maximum ADI		mg/kg-d					Acceptable Dail	y Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Dail	y Intake	
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value							Supplemental D	pata	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Ef	ffect Level	
Supplemental NOEL		mg/kg-d					Supplemental D	lata	
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observe	ed Adverse Effect Level	
Supplemental LOAEL		mg/kg-d					Supplemental D	lata	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴	0.002	mg/L					IRIS		
RAISHE Slope Factor	2.1	(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)	2.1	(mg/kg-d) ⁻¹							
EPA Carcinogen classification	B2		1986	Liver					
IARC Carcinogen Classification	2B		1987						
Other Supporting Data									
Is contaminant on list of carcinogens?	Y	Y/N					CACART; EPA;	OEHHA; RAIS; IARC	
Is the contaminant on a list of reproductive toxins?		Y/N							
EPAHA-DWEL							Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²		ug/L							
Health Reference Level (HRL) ² cancer	0.02	ug/L							
¹ Bolded data indicate value was used in attribute so	coring	·		·			· · · · · · · · · · · · · · · · · · ·		
² For the CCL process HRLs were calculated by cor	verting the RfD or o	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70) Kg adult, and a Rel	ative Source Contribu	ution of 20%. For ca	rcinogens, the concentration	at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	Units		Notes
STORET	27	0	0	Not Detected	Not Detected	Not Detected	Not Detected	ug/L		
HRL Ratios (No data for calculating HRL ratio)		No	n-cancer:			Cance	r:			
Production	Amount Range	Units	Year						L	
		lbs/yr	1998							
CUSIUR Production Data		lbs/yr	2002							
Use	Research chemic	al (HSDB)								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life	38	days	BSA	BSA = Biodegrades S	slowly with Acclin	nation				
K _{OC} , Organic Carbon Partition Coefficient	19	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	-0.19	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	4.89E-08	atm-m ³ /mol		@37°C						
Water Solubility	1,000,000	mg/L								
% water PBT profiler	48									

Contaminant:	Norethindrone (19-Norethisteron	e)]		Attribute	Scores		3-model Categorical Prediction
Substance Key:	2525 68224				Potency 8	Severity	Prevalence 10	Magnitude 4	L
Contaminant ID (CASRN):	00224			1	0	1	10	4	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									NC HRL/Kolpin MAX: 0.0459
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose	9	
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose	9	
EPA HA RfD		mg/kg-d					Reference Dose	9	
RAISHE RfD		mg/kg-d					Reference Dose	9	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	evel	
JMPR, maximum ADI		mg/kg-d					Acceptable Dail	y Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Dail	y Intake	
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value		mg/kg-d					Supplemental D	Data	
Supplemental RfD-like value		mg/kg-d					Supplemental D	Data	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	ffect Level	
Supplemental NOEL		mg/kg-d					Supplemental D	Data	
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observe	ed Adverse Effect Level	
Supplemental LOAEL	0.0167	mg/kg-d		The norethindrone I taken during the firs risk for hypospadia	t trimester of p	regnancy that the	Supplemental	Data; Maximum Recomn	mended Daily Dose (MRDD)
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
NTP Carcinogen Classification	Reasonably antic carcinogenic	cipated to be					NTP 11th Repo	rt on Carcinogens; no qua	antificatio of dose-response
Other Supporting Data									
Is contaminant on list of carcinogens?	Y	Y/N					CACART		
Is the contaminant on a list of reproductive toxins?	Y	Y/N					UMD, CACART		
EPAHA-DWEL		mg/L					Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²	0.04	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
¹ Bolded data indicate value was used in attribute s	scoring	<u> </u>		1			1		
² For the CCL process HRLs were calculated by co	onverting the RfD or o	other dose to ug/L, as	ssuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	elative Source Contribu	ition of 20%. For ca	rcinogens, the concentration	n at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	Units for Mag data		Notes
Kolpin, et al., 2002	70		12.8		0.872	0.048		ug/L		ce Water Reconnaissance; Kolpin, et al., 2002. Env. ., 36(6), pp. 1202-1211.
HRL Ratios (HRL/Kolpin MAX)		Non-ca	ancer: 0.0459			Cancer				
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
		lbs/yr	2002							
Use		1								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life	60	days	BST	BST = Biodegrades se	ometimes/recalc	itrant				
K _{OC} , Organic Carbon Partition Coefficient		L/kg								
log K _{OW} , Octanol Water Partition Coeff.	2.97	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	5.80E-10	atm-m ³ /mol								
Water Solubility	7.04	mg/L								
% water PBT profiler	12									

Contaminant:	n-Propylbenzene			1		Attribute	Scores		3-model Categorical Prediction
,	4328				Potency	Severity	Prevalence	Magnitude	NL?
Contaminant ID (CASRN):	103651			1	6	3	4	6	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									NC HRL/NCOD R1 90%: 1.21
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose	2	
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose	2	
EPA HA RfD		mg/kg-d					Reference Dose	9	
RAISHE RfD		mg/kg-d					Reference Dose	9	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	evel	
JMPR, maximum ADI		mg/kg-d					Acceptable Dail	y Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Dail	y Intake	
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value							Supplemental D	Data	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	ffect Level	
Supplemental NOEL		mg/kg-d					Supplemental D	Data	
RTECS Lowest Oral Chronic LOAEL	2.5	mg/kg-d		Blood - changes in s	spleen		galogenproisv	odnie uglevodorodov". (I; VCVGH "Vrednie chemichescie veshestva, (Hazardous substances Galogenated hydrocarbons) lume(issue)/page/year -,167,1990; 24 week oral study in rat
Supplemental LOAEL		mg/kg-d					Supplemental D	Data	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50	6,040	mg/kg		Behavioral - somnole	ence (general dep	ressed activity)		Food and Cosmetics Toxi FCTOD7. Volume(issue	cology. (London, UK) V.1-19, 1963-81. For publisher)/page/year 2,327,1964
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?		Y/N							
Is the contaminant on a list of reproductive toxins?		Y/N							
EPAHA-DWEL							Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²	5.83	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
¹ Bolded data indicate value was used in attribute sc	oring								
² For the CCL process HRLs were calculated by con-	verting the RfD or ot	her dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	elative Source Contrib	ution of 20%. For ca	rcinogens, the concentration	at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water	12,724	42	0.33	0.03	34	0.7	4.8	34	ug/L	
NCOD Round 2 finished water	22,970	54	0.24	0.1	21	0.6	4	21	ug/L	
NIRS finished water									ug/L	
Ambient Water Occurrence Data										
NAWQA ambient water	4,309	53	1.23	0.004	47	0.024	5	47	ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (HRL/NCOD R1 90%)		Non-c	ancer: 1.21			Cancer	r:			
Production	Amount Range	Units	Year							
CUSIUR Production Data	10K - 500K	lbs/yr	1998							
	10K - 500K	lbs/yr	2002							
Use	Manufacture of m	ethylstyrene; text		solvent; asphalt and r	haphtha constitue	ent (HSDB)				
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life	15	days	BS	PBT; BS = biodegrade	es slowly					
K _{OC} , Organic Carbon Partition Coefficient	495-955	L/kg								
log K _{ow} , Octanol Water Partition Coeff.	3.69	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	1.05E-02	atm-m ³ /mol								
Water Solubility	23.4	mg/L								
% water PBT profiler	22									

Contaminant:	o-Toluidine]		Attribute			3-model Categorical Prediction
Substance Key:	3768			-	Potency	Severity	Prevalence		L? - L
Contaminant ID (CASRN):	95534]	6	8	1	5	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									No water data
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dos	e	
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dos	e	
EPA HA RfD		mg/kg-d					Reference Dos	e	
RAISHE RfD		mg/kg-d					Reference Dos	e	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Lo	evel	
JMPR, maximum ADI		mg/kg-d					Acceptable Dai	ly Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Dai	ly Intake	
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value							Supplemental [Data	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	ffect Level	
Supplemental NOEL		mg/kg-d					Supplemental [Data	
RTECS Lowest Oral Chronic LOAEL	340	mg/kg-d		Kidney, Ureter, Bladd anemia, Nutritional ar decreased weight gai	nd Gross Metabol		(VINITI). All-Un		INIT Vsesoyuznyi Institut Nauchnoi i Tekhnicheskoi Informatsii Id Technical Information. (Moscow, USSR) Use information e)/page
Supplemental LOAEL		mg/kg-d					Supplemental [Data	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor	0.24	(mg/kg-d) ⁻¹					HEAST		
OEHHA Slope Factor (oral)	0.18	(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification	2A	2000					Vol. 77; 2000		
Other Supporting Data									
Is contaminant on list of carcinogens?	Y	Y/N					IARC, RAIS, O	EHHA	
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Teratogen list			UMD		
EPAHA-DWEL							Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²	793	ug/L							
Health Reference Level (HRL) ² cancer	0.194	ug/L							
¹ Bolded data indicate value was used in attribute s	coring								
² For the CCL process HRLs were calculated by con	nverting the RfD or o	other dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	lative Source Contrib	ution of 20%. For ca	arcinogens, the concentration	at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites		% PWSs/Sites	Minimum value of	Maximum	Median value of	90% of		Units for Mag	
	sampled	# with Detects	with detects	Detects	value of Detects	Detects	Detects	99% of Detects	data	Notes
Finished Water Occurrence Data				1 1						
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	5	lbs/yr	1	States	2004					
TRI Release - total	10,774	lbs/yr	9	States	2004					
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (No water data)		Noi	n-cancer:			Cancer	r:			
Production	Amount Range	Units	Year							
CUSIUR Production Data	>50M - 100M	lbs/yr	1998							
	>10M - 50M	lbs/yr	2002							
Use	Intermediate in th	e manufacture of	dyes, rubber, pha	rmaceuticals and pesti	icides (HSDB)					
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BF	BF = biodegrades fas	t					
K _{OC} , Organic Carbon Partition Coefficient	74.04	L/kg								
log K _{ow} , Octanol Water Partition Coeff.	1.32	unitless								
Kd, Distribution coefficient		L/kg								
Kd, Distribution coefficient HLC, Henry's Law Constant	1.98E-06	L/kg atm-m ³ /mol								
	1.98E-06 16,600	-								

Contaminant:	Oxirane, methyl	-		7		Attribute	Scores	3-model Categorical Prediction
Substance Key:	2661 75569			-	Potency	Severity	Prevalence Magnitude	L
Contaminant ID (CASRN):	/ 5569				6	8	10 8	HRL Ratio(s)
HEALTH EFFECTS DATA ¹								No water data
Non-cancer data	Value	Units	Date		Critical Effect			Notes
EPA OPP RfD	0.001	mg/kg-d	1981	Increased combined hyperplasia and papil		erkeratosis,	Reference Dose; Basis = BMDL ₁₀ 1.4 m	g/kg-d; UF = 1000.
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose	
EPA HA RfD		mg/kg-d					Reference Dose	
RAISHE RfD		mg/kg-d					Reference Dose	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Level	
JMPR, maximum ADI		mg/kg-d					Acceptable Daily Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Daily Intake	
ITER, TDI							Tolerable Daily Intake	
Supplemental RfD-like value							Supplemental Data	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Effect Level	
Supplemental NOEL		mg/kg-d					Supplemental Data	
RTECS Lowest Oral Chronic LOAEL	26	mg/kg-d		Brain and Coverings other changes, Blood			Lowest Observed Adverse Effect Level; translation, see HYSAAV. (V/O Mezhdu Volume(issue)/page/year 46(7),76,1981	45-day study in rat; GISAAA Gigiena i Sanitariya. For English Inarodnaya Kniga, 113095 Moscow, USSR) V.1- 1936-
Supplemental LOAEL		mg/kg-d					Supplemental Data	
HSDB Lowest Oral LD50		mg/kg						
CTDJPN Lowest Oral LD50		mg/kg						
RTECS Lowest Oral LD50		mg/kg						
Cancer Data								
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L						
OPP Slope Factor (oral)	0.15	(mg/kg-d) ⁻¹						
RAISHE Slope Factor	0.24	(mg/kg-d) ⁻¹						
OEHHA Slope Factor (oral)	0.24	(mg/kg-d) ⁻¹						
EPA Carcinogen classification	B2	1990						
IARC Carcinogen Classification	2B		1994					
Other Supporting Data								
Is contaminant on list of carcinogens?	Y	Y/N					CACART; RAIS; OEHHA; EPA; IARC	
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Teratogen			UMD	
EPAHA-DWEL							Drinking Water Equivalent Level	
Health Reference Level (HRL) ²	60.7	ug/L						
Health Reference Level (HRL) ² cancer	0.233	ug/L						
¹ Bolded data indicate value was used in attribute a	scoring							
² For the CCL process HRLs were calculated by co	onverting the RfD or o	ther dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	elative Source Contrib	ution of 20%. For carcinogens, the concentratio	n at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data						•				
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data						•				
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	28,761	lbs/yr	5	States	2004					
TRI Release - total	433,536	lbs/yr	28	States	2004					
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (No water data)		Nor	n-cancer:			Cancer	r:			
Production	Amount Range	Units	Year							
CUSIUR Production Data	> 1B	lbs/yr	1998							
	> 1B	lbs/yr	2002							
Use	Chemical interme	diate (NTP)								
Environmental Fate Parameters	Value	Units	Degradation code					Notes		
T _{1/2} , Half life		length of time	BS	PBT; BS = biodegrade	es slow					
K _{oc} , Organic Carbon Partition Coefficient	2.324	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	0.03	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	6.98E-05	atm-m ³ /mol								
Water Solubility	590,000	mg/L								
% water PBT profiler	44									

Contaminant:	Oxydemeton-me	thyl]		Attribute				3-model Categorical Prediction
Substance Key:	6458				Potency	Severity	Prevalence			L?
Contaminant ID (CASRN):	301122]	7	5	9	5		HRL Ratio(s)
HEALTH EFFECTS DATA ¹										NC HRL/SWC EEC: 1.01
Non-cancer data	Value	Units	Date		Critical Effect				N	lotes
EPA OPP RfD	0.00013	mg/kg-d		Decreased erythroc	yte & brain ChE		Reference Dos	se; Basis = NOAEL 0.	.013 mg/kg-d	UF = 100.
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dos	e		
EPA HA RfD		mg/kg-d					Reference Dos	e		
RAISHE RfD		mg/kg-d					Reference Dos	e		
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	evel		
JMPR, maximum ADI	0.0025	mg/kg-d	1967	Decreased body weig	ght		Acceptable Dai	ly Intake		
CEDIADI, ADI		mg/kg-d					Acceptable Dai	ly Intake		
ITER, TDI							Tolerable Daily	Intake		
Supplemental RfD-like value							Supplemental [Data		
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	ffect Level		
Supplemental NOEL		mg/kg-d					Supplemental [Data		
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observ	ed Adverse Effect Lev	vel	
Supplemental LOAEL		mg/kg-d					Supplemental [Data		
HSDB Lowest Oral LD50		mg/kg								
CTDJPN Lowest Oral LD50		mg/kg								
RTECS Lowest Oral LD50	10	mg/kg		Details of toxic effects value	s not reported oth	er than lethal dose		nophosphorus Pesticio 74 Volume(issue)/pag		nd Biological Chemistry," Eto, M., Cleveland, OH, CRC 974
Cancer Data										
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L								
RAISHE Slope Factor		(mg/kg-d) ⁻¹								
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹								
EPA Carcinogen classification										
IARC Carcinogen Classification										
Other Supporting Data										
Is contaminant on list of carcinogens?		Y/N								
Is the contaminant on a list of reproductive toxins?	Y	Y/N		male, female			CACART			
EPAHA-DWEL							Drinking Water	Equivalent Level		
Health Reference Level (HRL) ²	0.91	ug/L								
Health Reference Level (HRL) ² cancer		ug/L								
¹ Bolded data indicate value was used in attribute so	coring									
² For the CCL process HRLs were calculated by cor	nverting the RfD or o	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70) Kg adult, and a Re	elative Source Contrib	ution of 20%. For ca	arcinogens, the concentra	ation at the 10	-6 cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data		•								
NAWQA ambient water									ug/L	
NREC ambient surface water NREC ambient ground water									ug/L ug/L	National Reconnaissance National Reconnaissance
NREC ambient surface water									ug/L ug/L	National Aggregate
									_	
NREC ambient ground water	Amount		Number of						ug/L	National Aggregate
Application/Release	Released	Units	States	Units	Year				Notes	
NCFAP Pesticide Application - total	154,227	lbs/yr	19	States	1997					
TRI Release - surface water	0	lbs/yr	0	States	2004					
TRI Release - total	0	lbs/yr	0	States	2004			1		
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	95% of Detects	Units		Notes
PPMP ambient water		0	0					ug/L	Pesticide Pilot N	Nontoring Program (USGS/EPA)
PPMP finished water		0	0					ug/L		
OPP Estimated Environmental Concentration		Surface water c	hronic: 0.9 ug/L			Ground water chronic	c: 0.006 ug/L			
	1									
HRL Ratios (HRL/SWC EEC)		Non-o	cancer: 1.01			Cance	r:			
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
		lbs/yr	2002							
Use	Insecticide (HSDI	В)								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time		PBT; BS =Biodegrade	es Slowly					
K _{OC} , Organic Carbon Partition Coefficient		L/kg								
log K _{ow} , Octanol Water Partition Coeff.	-0.74	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	1.62E-13	atm-m ³ /mol								
Water Solubility	1,000,000	mg/L								
% water PBT profiler	39									

Oxyfluorfen CCL 3 Contaminant Information Sheet

Contaminant:	Oxyfluorfen]		Attribute	Scores		3-model Categorical Prediction
Substance Key:	34731			_	Potency	Severity	Prevalence		L? - L
Contaminant ID (CASRN):	42874033				5	8	10	6	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									NC HRL/SWC EEC: 3.0 CAR HRL/SWC EEC: 0.067
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dos	se	
EPA IRIS (ITER) RfD	0.003	mg/kg-d	1986	Incr. abs. liver weight	t; nonneoplastic le	esions	Reference Dos	se; Basis = NOEL 0.3 m	g/kg-d; UF = 100.
EPA HA RfD		mg/kg-d					Reference Dos	se	
RAISHE RfD	0.003	mg/kg-d					Reference Dos	se	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk L	evel	
JMPR, maximum ADI		mg/kg-d					Acceptable Da	ily Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Da	ily Intake	
ITER, TDI							Tolerable Daily	/ Intake	
Supplemental RfD-like value							Supplemental	Data	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed I	Effect Level	
Supplemental NOEL		mg/kg-d					Supplemental	Data	
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observ	ved Adverse Effect Leve	3
Supplemental LOAEL		mg/kg-d					Supplemental	Data	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50	5	mg/kg		Details of toxic effect value	s not reported oth	her than lethal dose	PEMNDP Pest 7QG, UK) V.1	ticide Manual. (The Briti - 1968- Volume(issue	ish Crop Protection Council, 20 Bridport Rd., Thornton Heath CR- e)/page/year 9,643,1991
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
OPP Slope Factor (oral)	0.0732	(mg/kg-d) ⁻¹							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification	с								
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?	Y	Y/N					EPA		
Is the contaminant on a list of reproductive toxins?		Y/N							
EPAHA-DWEL							Drinking Wate	Equivalent Level	
Health Reference Level (HRL) ²	21	ug/L							
Health Reference Level (HRL) ² cancer	0.478	ug/L							
¹ Bolded data indicate value was used in attribute s	coring								
² For the CCL process HRLs were calculated by co	nverting the RfD or o	ther dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70) Kg adult, and a Re	elative Source Contrib	oution of 20%. For c	arcinogens, the concentrat	tion at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total	705,255	lbs/yr	37	States	1997					
TRI Release - surface water	0	lbs/yr	0	States	2004					
TRI Release - total	5	lbs/yr	2	States	2004					
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	95% of Detects	Units for Mag data		Notes
PPMP ambient water		0	0		Not Detected		Not Detected	ug/L	Pesticide Pilot N	Iontoring Program (USGS/EPA)
PPMP finished water		0	0		Not Detected		Not Detected	ug/L		
OPP Estimated Environmental Concentration		Surface water cl	nronic: 7.1 ug/L			Ground water chroni	c: 0.08 ug/L			
HRL Ratios (HRL/SWC EEC)		Non-o	cancer: 3.0			Cancer: 0	0.067			
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
		lbs/yr	2002							
Use	Pesticide; herbicio	de								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BST	BST = biodegrades s	ometimes/recalci	trant; PBT				
K _{OC} , Organic Carbon Partition Coefficient	46,800	L/kg								
log K _{ow} , Octanol Water Partition Coeff.	4.73	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	8.23E-07	atm-m ³ /mol								
Water Solubility	0.116	mg/L								
% water PBT profiler	5									

Contaminant:	Perchlorate			1		Attribute	Scores			3-model Categorical Prediction
Substance Key:	24310				Potency	Severity		Magnitude		NL? - L?
Contaminant ID (CASRN):	14797730				6	1	9	8		
										HRL Ratio(s)
HEALTH EFFECTS DATA ¹	1			I			1			NC HRL/UCMR 90%: 0.35
Non-cancer data	Value	Units	Date		Critical Effect					Notes
EPA OPP RfD		mg/kg-d					Reference Dose			
EPA IRIS (ITER) RfD	0.0007	mg/kg-d	2005	Radioactive iodide thyroid	uptake inhibitior	n (RAIU) in the	Reference Dose;	Basis NOEL 0.00)7mg/kg-d	
EPA HA RfD		mg/kg-d					Reference Dose			
RAISHE RfD		mg/kg-d					Reference Dose			
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Leve	1		
JMPR, maximum ADI		mg/kg-d					Acceptable Daily I	ntake		
CEDIADI, ADI		mg/kg-d					Acceptable Daily I	ntake		
ITER, TDI							Tolerable Daily Int	ake		
Supplemental RfD-like value	6	ug/L	2000	Decreased newborn	TSH		Supplemental Data	a; Brechner et al. :	2000	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Effe	ct Level		
Supplemental NOEL		mg/kg-d					Supplemental Data	а		
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observed	Adverse Effect Le	vel	
Supplemental LOAEL		mg/kg-d					Supplemental Data	а		
HSDB Lowest Oral LD50		mg/kg								
CTDJPN Lowest Oral LD50		mg/kg								
RTECS Lowest Oral LD50		mg/kg								
Cancer Data										
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L								
RAISHE Slope Factor		(mg/kg-d) ⁻¹								
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹								
EPA Carcinogen classification	See notes							omeostasis, base	d on the horn	ins, at least at doses below those necessary to alter nonally-mediated mode of action in rodent studies and
IARC Carcinogen Classification										
Other Supporting Data										
Is contaminant on list of carcinogens?		Y/N								
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Teratogen			UMD			
EPAHA-Interim HA	15	ug/L					Interim Health Adv	visory; EPA is revis	siting the inte	rmin hHealth Advisory for perchlorate.
Health Reference Level (HRL) ²	4.9	ug/L					The HRL for the C and the default RS			based on the RSC used in the health advisory (0.62) ess.
Health Reference Level (HRL) ² cancer		ug/L								
¹ Bolded data indicate value was used in attribute s	coring	·	-							
² For the CCL process HRLs were calculated by con	nverting the RfD or of	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70) Kg adult, and a Re	elative Source Contrib	ution of 20%. For carcir	nogens, the concent	tration at the 1	0 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water	3,554	147	4.14	4	420	6.5	14	59	ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year			1	Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (HRL/UCMR 90%)		Non-c	ancer: 0.35			Cance	r:			
Production	Amount Range	Units	Year							
CUSIUR Production Data	10K - 500K	lbs/yr	1998							
COOLONN FOR CLOWER CONTENT		lbs/yr	2002							
Use	Smokeless rocket	and jet propella	nt; explosives; ana	lytical chemistry, etchi	ng and engraving	g agent (HSDB)				
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time								
K _{oc} , Organic Carbon Partition Coefficient		L/kg								
log K _{OW} , Octanol Water Partition Coeff.		unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant		atm-m ³ /mol								
Water Solubility	200,000	mg/L		All use and env. fate	data are for amm	onium perchlorate.				
% water PBT profiler										

Contaminant:	Perfluorooctane	sulfonic acid (F	PFOS)			Attribut	e Scores		7	3-model Categorical Prediction
Substance Key:	12176				Potency	Severity	Prevalence			L?-L
Contaminant ID (CASRN):	1763231				8	3	10	7		HRL Ratio(s)
HEALTH EFFECTS DATA ¹										NC HRL/MN MW MAX: 0.143
Non-cancer data	Value	Units	Date		Critical Effect					Notes
EPA OPP RfD		mg/kg-d					Reference Do	se		
EPA IRIS (ITER) RfD		mg/kg-d					Reference Do	se		
EPA HA RfD		mg/kg-d					Reference Do	se		
RAISHE RfD		mg/kg-d					Reference Do	se		
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk I	_evel		
JMPR, maximum ADI		mg/kg-d					Acceptable Da	aily Intake		
CEDIADI, ADI		mg/kg-d					Acceptable Da	aily Intake		
ITER, TDI							Tolerable Dail	y Intake		
Supplemental RfD-like value							Supplemental	Data		
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed			
EPA/FR NOAEL	0.1	mg/kg-d		Reduced F2 Body W	eight			000 (Volume 65, N		tion reproductive study in rats. Supplemental Data - FR erfluorooctyl Sulfonates; Proposed Significant New Use
Supplemental NOAEL	0.03	mg/kg-d		Decreased body we lowered serum total triiodothyronine (T3 estradiol levels	cholesterol, lov	vered				icol. Sci. 68, 249-264. EPA Provisional HA: inking/pha-PFOA_PFOS.pdf
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Obser	ved Adverse Effect	t Level	
Supplemental LOAEL		mg/kg-d								
HSDB Lowest Oral LD50	251	mg/kg								
CTDJPN Lowest Oral LD50		mg/kg								
RTECS Lowest Oral LD50		mg/kg								
Cancer Data										
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L								
RAISHE Slope Factor		(mg/kg-d) ⁻¹								
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹								
EPA Carcinogen classification										
IARC Carcinogen Classification										
Other Supporting Data										
Is contaminant on list of carcinogens?		Y/N								
Is the contaminant on a list of reproductive toxins?		Y/N								
EPAHA-Provisional HA	0.2	ug/L	January 2008				Provisional He	ealth Advisory: htt	p://www.epa.go	ov/waterscience/criteria/drinking/pha-PFOA_PFOS.pdf
Health Reference Level (HRL) ²	0.2	ug/L					calculated in a	different manner	than EPA's pro	(70 kg body weight and 2 L/d ingestion). The HRL was visional HA because child exposure factors and he provisional HA.
Health Reference Level (HRL) ² cancer		ug/L								
¹ Bolded data indicate value was used in attribute so	coring									
² For the CCL process HRLs were calculated by cor	verting the RfD or ot	ner dose to ug/L, a	assuming 2 L/day of v	water consumed by a 70	Kg adult, and a Re	elative Source Contril	oution of 20%. For o	carcinogens, the cor	centration at the	10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data		I								
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total	Released	lbs/yr	olaco	States						
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Range of Detects (ug/L)				N	otes	
Select New Jersey Water Systems	23	13	57%	0.0042-0.019		ing 2006 - Targeted sin of Water Supply.	tudy "Determina	tion of Perfluoroo	ctanoic Acid (PF	OA) in Aqueous Samples, Final Report." Jan 2007,
Select Minnesota municipal wells	37	6	16.2%	ND-1.4			Goeden and J. I	Kelly. Perfluoroo	chemicals in Mi	nnesota, MN DOH, 2/27/06.
Select Minnesota non-community wells	22	0	0%	ND	Targeted Sampli	ing 2004-2005 - H. Go	beden and J. Ke	lly. Perfluorocher	micals in Minnes	ota, MN DOH, 2/27/06.
Select Minnesota private wells	26	0	0%	ND	Targeted Sampli	ing 2004-2005 - H. Go	beden and J. Ke	lly. Perfluorocher	micals in Minnes	ota, MN DOH, 2/27/06.
Aggregate of above Minnesota wells	85	6	7.1%	ND-1.4	Targeted Sampli	ing 2004-2005 - H. Go	beden and J. Ke	lly. Perfluorocher	micals in Minnes	ota, MN DOH, 2/27/06.
HRL Ratios (HRL/MN MW MAX)		Non-c	ancer: 0.143			Cancer				
Production	Amount Range	Units	Year							
	10-500K	lbs/yr	2002							
CUSIUR Production Data	0	lbs/yr	2003 (EPA est.)	Estimate of zero as p	hased out.					
Use	Surface-active ag	ents in aqueous	media; chemical in	termediate; in fire-figh	ting applications,	, floor polish; metal pla	ating baths; pesi	icide active ingre	dient for ant bait	traps. (HSDB)
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BST	BST = biodegrades s	ometimes/recalci	itrant				
K _{oc} , Organic Carbon Partition Coefficient	100,000	L/kg								
log K _{OW} , Octanol Water Partition Coeff.		unitless								
Kd, Distribution coefficient		cm3/g								
HLC, Henry's Law Constant		atm-m ³ /mol								
Water Solubility	370	mg/L								
% water PBT profiler										

Contaminant:	Perfluorooctano	ic acid (PFOA)		1		Attribute	Scores		3-model Categorical Prediction
Substance Key:	6614				Potency	Severity	Prevalence	Magnitude	L?
Contaminant ID (CASRN):	335671			J	6	3	10 Scores based o	6 n supplemental data	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									NC HRL/MN MW MAX: 1.22
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose	9	
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose	9	
EPA HA RfD		mg/kg-d					Reference Dose	2	
RAISHE RfD		mg/kg-d					Reference Dose	9	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	vel	
JMPR, maximum ADI		mg/kg-d					Acceptable Dail	y Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Dail	y Intake	
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value							Supplemental D	vata	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Et	ffect Level	
Supplemental NOEL		mg/kg-d					Supplemental D	pata	
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observe	ed Adverse Effect Level	
Supplemental LOAEL	0.46	mg/kg-d	2006	Increased maternal	liver weight at te	ərm			. Tox. Sci., 90, 2, pp. 510-518. EPA Provisional HA: /drinking/pha-PFOA_PFOS.pdf
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?		Y/N							
Is the contaminant on a list of reproductive toxins?		Y/N							
EPAHA-Provisional HA	0.4	ug/L	January 2008				Provisional Hea	Ith Advisory: http://www.epa	a.gov/waterscience/criteria/drinking/pha-PFOA_PFOS.pdf
Health Reference Level (HRL) ²	1.1	ug/L						isional HA because child ex	ors (70 kg body weight and 2 L/d ingestion). This value differs sposure factors and toxicokinetic adjustments were used to
Health Reference Level (HRL) ² cancer		ug/L							
¹ Bolded data indicate value was used in attribute s	coring		·	·			•		
² For the CCL process HRLs were calculated by con	nverting the RfD or o	ther dose to ug/L,	assuming 2 L/day of	water consumed by a 70) Kg adult, and a Re	elative Source Contrib	ution of 20%. For ca	rcinogens, the concentration at	the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year		1	1	Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Range of Detects (ug/L)				N	otes	
NJDEP - Jan 2007	23	18	78	<0.004 - 0.039	Targeted study " Supply.	Determination of Perf	luorooctanoic A	cid (PFOA) in Aqı	ueous Samples, I	Final Report." Jan 2007, NJDEP, Division of Water
Little Hocking, OH Municipal Wells (FW)	No data			1.5-7.2		006. J. Occ. Env. Me	ed. Little Hocking	g, OH; data from :	2002-2005.	
Select Minnesota municipal wells	37	6	16.2%	ND-0.9	Targeted Samp	ling 2004-2005 - H. G	Goeden and J. H	Kelly. Perfluoroo	chemicals in Mir	nnesota, MN DOH, 2/27/06.
Select Minnesota non-community wells	22	0	0%	ND	Targeted Sampli	ng 2004-2005 - H. Go	beden and J. Ke	lly. Perfluorochei	micals in Minnes	ota, MN DOH, 2/27/06.
Select Minnesota private wells	26	1	3.8%	ND-0.67	Targeted Sampli	ng 2004-2005 - H. Go	beden and J. Ke	lly. Perfluorocher	micals in Minneso	ota, MN DOH, 2/27/06.
Aggregate of above Minnesota wells	85	7	8.2%	ND-0.9	Targeted Sampli	ng 2004-2005 - H. Go	beden and J. Ke	lly. Perfluorocher	micals in Minneso	ota, MN DOH, 2/27/06.
HRL Ratios (HRL/MN MW MAX)		Non-c	ancer: 1.22			Cance	er:			
Production	Amount Range	Units	Year							
	10K - 500K	lbs/yr	1998							
CUSIUR Production Data	10K - 500K	lbs/yr	2002							
Use	Production of fluo	ropolymers (e.g.	Teflon) and fluoro	elastomers; in fire-figh	iting applications,	cosmetics, greases a	and lubricants, p	aints, polishes ar	nd adhesives (HS	SDB)
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life	180	days	BST	PBT; BST = biodegra	des sometimes/r	ecalcitrant				
K _{OC} , Organic Carbon Partition Coefficient	27,000	L/kg								
log K _{ow} , Octanol Water Partition Coeff.		unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	9.10E-02	atm-m ³ /mol								
Water Solubility		mg/L								
% water PBT profiler	1									

Contaminant:	Permethrin			1		Attribute	Scores	3-model Categorical Prediction
Substance Key:	35815				Potency	Severity	Prevalence Magnitude	L?-L
Contaminant ID (CASRN):	52645531]	4	8	10 7	HRL Ratio(s)
								NC HRL/SWC EEC: 1,944
HEALTH EFFECTS DATA ¹								CAR HRL/SWC EEC: 4.05
Non-cancer data	Value	Units	Date		Critical Effect			Notes
EPA OPP RfD	0.25	mg/kg-d		Neurotox (aggressio increased body temp See CAR			Reference Dose; Basis = NOAEL 25 m	g/kg-d; UF = 100.
EPA IRIS (ITER) RfD	0.05	mg/kg-d	1986	Increased liver weigh	ht		Reference Dose; Basis = NOEL 5 mg/k	d-d; UF = 100.
EPA HA RfD		mg/kg-d					Reference Dose	
RAISHE RfD	0.05	mg/kg-d					Reference Dose	
ATSDR (ITER), MRL	0.2	mg/kg-d		Neurol.			Minimal Risk Level; ATSDR MRL-int.	
JMPR, maximum ADI	0.05	mg/kg-d	1999				Acceptable Daily Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Daily Intake	
ITER, TDI							Tolerable Daily Intake	
Supplemental RfD-like value							Supplemental Data	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Effect Level	
Supplemental NOEL		mg/kg-d					Supplemental Data	
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observed Adverse Effect Level	
Supplemental LOAEL		mg/kg-d					Supplemental Data	
HSDB Lowest Oral LD50		mg/kg						
CTDJPN Lowest Oral LD50		mg/kg						
RTECS Lowest Oral LD50		mg/kg						
Cancer Data	1	1		1				
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L						
OPP Slope Factor (oral)	0.0096	(mg/kg-d) ⁻¹						
RAISHE Slope Factor		(mg/kg-d) ⁻¹						
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹						
EPA Carcinogen classification								
IARC Carcinogen Classification	3		1991					
Other Supporting Data		1 1						
Is contaminant on list of carcinogens?	Y	Y/N					EPA	
Is the contaminant on a list of reproductive toxins?		Y/N						
EPAHA-DWEL							Drinking Water Equivalent Level	
Health Reference Level (HRL) ²	1,750	ug/L						
Health Reference Level (HRL) ² cancer	3.65	ug/L						
¹ Bolded data indicate value was used in attribute s	scoring							
² For the CCL process HRLs were calculated by co	onverting the RfD or o	ther dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70	0 Kg adult, and a R	elative Source Contribu	tion of 20%. For carcinogens, the concentration	on at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year			1	Notes	
NCFAP Pesticide Application - total	1,066,056	lbs/yr	48	States	1997					
TRI Release - surface water	0	lbs/yr	0	States	2004					
TRI Release - total	17,979	lbs/yr	7	States	2004					
Supplemental Water Data										
OPP Estimated Environmental Concentration		Surface water ch	nronic: 0.9 ug/L			Ground water chronic	c: 0 ug/L			
HRL Ratios (HRL/SWC EEC)		Non-ca	ancer: 1,944			Cancer: 4	4.05			
Production	Amount Range	Units	Year							
		lbs/yr	1998							
CUSIUR Production Data		lbs/yr	2002							
Use	Insecticide (HSDE	3)								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time		BF = biodegrades fast	t; BST = biodegr	rades sometimes/recal	lcitrant			
K _{OC} , Organic Carbon Partition Coefficient	178,000	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	6.5	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	1.87E-06	atm-m ³ /mol								
Water Solubility	0.006	mg/L								
% water PBT profiler										

Contaminant:	Profenofos			1		Attribute	Scores			3-model Categorical Prediction
Substance Key:	34318				Potency	Severity	Prevalence			L?
Contaminant ID (CASRN):	41198087]	7	3	8	6		HRL Ratio(s)
HEALTH EFFECTS DATA ¹										NC HRL/SWC EEC: 3.5
Non-cancer data	Value	Units	Date		Critical Effect					Notes
EPA OPP RfD	0.00005	mg/kg-d		Inhibition of plasma	& RBC ChE act	ivity	Reference Do	se; Basis = NOEL	0.005 mg/kg-c	i; UF = 100.
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dos	e		
EPA HA RfD		mg/kg-d					Reference Dos	e		
RAISHE RfD		mg/kg-d					Reference Dos	e		
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk L	evel		
JMPR, maximum ADI	0.0004	mg/kg-d	1990				Acceptable Da	ly Intake		
CEDIADI, ADI		mg/kg-d					Acceptable Da	ily Intake		
ITER, TDI							Tolerable Daily	Intake		
Supplemental RfD-like value							Supplemental I	Data		
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	ffect Level		
Supplemental NOEL		mg/kg-d					Supplemental I			
RTECS Lowest Oral Chronic LOAEL	0.05	mg/kg-d		Blood - other change induction, or change cholinesterase			Science Societ		on Noyaku Gak	V Nippon Noyaku Gakkaishi. Journal of the Pesticide kai, 1-43-11, Komagome, Toshima-ku, Tokyo 170, 12,781,1987
Supplemental LOAEL		mg/kg-d					Supplemental I	Data		
HSDB Lowest Oral LD50		mg/kg								
CTDJPN Lowest Oral LD50		mg/kg								
RTECS Lowest Oral LD50	162	mg/kg		Behavioral - somnole Behavioral - tremor, (or function of salivary	Gastrointestinal -			ology and Applied olume(issue)/page		(Academic Press, Inc., 1 E. First St., Duluth, MN 55802) 84
Cancer Data										
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L								
RAISHE Slope Factor		(mg/kg-d) ⁻¹								
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹								
EPA Carcinogen classification										
IARC Carcinogen Classification										
Other Supporting Data										
Is contaminant on list of carcinogens?		Y/N								
Is the contaminant on a list of reproductive toxins?		Y/N								
EPAHA-DWEL							Drinking Water	Equivalent Level		
Health Reference Level (HRL) ²	0.35	ug/L								
Health Reference Level (HRL) ² cancer		ug/L								
¹ Bolded data indicate value was used in attribute set	coring									
² For the CCL process HRLs were calculated by con	nverting the RfD or ot	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	elative Source Contrib	ution of 20%. For ca	arcinogens, the conc	entration at the 1	0 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total	879,776	lbs/yr	14	States	1997					
TRI Release - surface water	0	lbs/yr	0	States	2004					
TRI Release - total	255	lbs/yr	1	States	2004					
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	95% of Detects	Units for Mag data		Notes
PPMP ambient water		0	0		Not Detected		Not Detected	ug/L	Pesticide Pilot N	Iontoring Program (USGS/EPA)
PPMP finished water		0	0		Not Detected		Not Detected	ug/L		
OPP Estimated Environmental Concentration		Surface water cl	nronic: 0.1 ug/L			Ground water chroni	c: 0.03 ug/L			
HRL Ratios (HRL/SWC EEC)		Non-o	cancer: 3.5			Cancer				
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
		lbs/yr	2002							
Use	Pesticide, insection	cide, acaricide (H	SDB)							
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BST	BST = biodegrades so	ometimes/recalci	trant; PBT				
K _{OC} , Organic Carbon Partition Coefficient		L/kg								
log K _{ow} , Octanol Water Partition Coeff.	4.68	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	2.21E-08	atm-m ³ /mol								
Water Solubility	28	mg/L								
% water PBT profiler	9									

	Quinoline					Attribute		-	3-model Categorical Prediction
	3467				Potency	Severity	Prevalence 7	Magnitude	L? - L
Contaminant ID (CASRN):	91225				7	8	1	5	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									No water data
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose	9	
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose	e	
EPA HA RfD		mg/kg-d					Reference Dose	9	
RAISHE RfD		mg/kg-d					Reference Dose	9	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	evel	
JMPR, maximum ADI		mg/kg-d					Acceptable Dai	y Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Dai	y Intake	
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value							Supplemental D	Data	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	ffect Level	
Supplemental NOEL		mg/kg-d					Supplemental D	Data	
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observe	ed Adverse Effect Level	
Supplemental LOAEL		mg/kg-d					Supplemental D	Data	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴	0.001	mg/L	2001				IRIS		
RAISHE Slope Factor	3	(mg/kg-d) ⁻¹					IRIS		
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification	B2		2001				Hirao et al., 197	'6; oral study in rats	
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?	Y	Y/N					CACART, EPA,	RAIS	
Is the contaminant on a list of reproductive toxins?		Y/N							
EPAHA-DWEL							Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²		ug/L							
Health Reference Level (HRL) ² cancer	0.01	ug/L							
¹ Bolded data indicate value was used in attribute sc	oring								
² For the CCL process HRLs were calculated by con	verting the RfD or ot	ther dose to ug/L, a	ssuming 2 L/day of v	vater consumed by a 70	Kg adult, and a Re	lative Source Contrib	oution of 20%. For ca	rcinogens, the concentration	at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data	•									
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data	•									
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	62	lbs/yr	1	States	2004					
TRI Release - total	28,629	lbs/yr	8	States	2004					
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (No water data)		Nor	n-cancer:			Cancer				
Production	Amount Range	Units	Year							
CUSIUR Production Data	10K - 500K	lbs/yr	1998							
	10K - 500K	lbs/yr	2002							
Use	Chemical interme	diate; pharmaceu); flavoring (HSDB)						
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BFA	BFA = Biodegrades F	ast with Acclima	tion				
K _{OC} , Organic Carbon Partition Coefficient	1,837	L/kg								
log K _{ow} , Octanol Water Partition Coeff.	2.03	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	1.67E-06	atm-m3/mol								
Water Solubility	6,110	mg/L								
% water PBT profiler										

Contaminant:	RDX			7		Attribute	Scores		3-model Categorical Prediction
Substance Key:	5404				Potency	Severity	Prevalence	Magnitude	L?
Contaminant ID (CASRN):	121824				6	8	5	5	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									NC HRL/STORET 90%: 0.092 CAR HRL/STORET 90%: 0.0013
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dos	e	
EPA IRIS (ITER) RfD	0.003	mg/kg-d	1988	Inflammation of the p	rostate.		Reference Dos	e; Basis NOEL 0.3 mg/kg	d. U.S. DOD, 1983
EPA HA RfD	0.003	mg/kg-d	2006				Reference Dos	e	
RAISHE RfD	0.003	mg/kg-d					Reference Dos	e	
ATSDR (ITER), MRL	0.03	mg/kg-d	6/1995				Int-Minimal Ris	k Level	
JMPR, maximum ADI		mg/kg-d					Acceptable Dai	ly Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Dai	ly Intake	
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value							Supplemental [Data	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	ffect Level	
Supplemental NOEL		mg/kg-d					Supplemental [Data	
RTECS Lowest Oral Chronic LOAEL	40	mg/kg-d		Cardiac - other chang red blood cells, Bioch or change in blood or	nemical - Enzyme	inhibition, induction	n, (Springfield, VA		00-day study in rat; NTIS National Technical Information Service. earinghouse for Scientific & Technical Information.
Supplemental LOAEL		mg/kg-d					Supplemental [Data	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴	0.03	mg/L	1988				EPAHA		
RAISHE Slope Factor	0.11	(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification	С		1988						
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?	Y	Y/N					EPA; RAIS		
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Teratogen			UMD		
EPAHA-DWEL	0.1	mg/L	2006				Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²	21	ug/L							
Health Reference Level (HRL) ² cancer	0.3	ug/L							
¹ Bolded data indicate value was used in attribute s	scoring								
² For the CCL process HRLs were calculated by co	onverting the RfD or c	other dose to ug/L, a	assuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	elative Source Contrib	ution of 20%. For ca	arcinogens, the concentration	at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental water data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	Units		Notes
STORET	23	23	100	15	270	140	229	ug/L		
								-		
HRL Ratios (HRL/STORET 90%)		Non-ca	ncer: 0.092			Cancer: 0	.0013			
Production	Amount Range	Units	Year							
	>500K - 1M	lbs/yr	1998							
CUSIUR Production Data	>1M-10M	lbs/yr	2002							
Use	High explosive									
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time		BFA = biodegrades f	ast with acclim	ation				
K _{oc} , Organic Carbon Partition Coefficient	195.4	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	0.87	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	6.30E-08	atm-m ³ /mol								
Water Solubility	59.7	mg/L								
% water PBT profiler										

Contaminant:	sec-Butylbenzen	ie		1		Attribute	Scores		3-model Categorical Prediction
Substance Key:	5904				Potency	Severity		Magnitude	NL?
Contaminant ID (CASRN):	135988				5	5	3	6	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									NC HRL/NCOD R1 90%: 1.03
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose		
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose		
EPA HA RfD		mg/kg-d					Reference Dose		
RAISHE RfD		mg/kg-d					Reference Dose		
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Level		
JMPR, maximum ADI		mg/kg-d					Acceptable Daily Ir	ntake	
CEDIADI, ADI		mg/kg-d					Acceptable Daily Ir	ntake	
ITER, TDI							Tolerable Daily Inta	ake	
Supplemental RfD-like value							Supplemental Data	1	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Effect	t Level	
Supplemental NOEL		mg/kg-d					Supplemental Data	1	
RTECS Lowest Oral Chronic LOAEL	4.42	mg/kg-d		Behavioral - alterati	on of classical c	conditioning	veshestva, galoge	enproisvodnie ug	Level; 24-week oral rat study; VCVGH "Vrednie chemichescie glevodorodov". (Hazardous substances Galogenated II., Chimia, 1990. Volume(issue)/page/year -,179,1990
Supplemental LOAEL		mg/kg-d					Supplemental Data	1	
HSDB Lowest Oral LD50	2,240	mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?		Y/N							
Is the contaminant on a list of reproductive toxins?		Y/N							
EPAHA-DWEL							Drinking Water Equ	uivalent Level	
Health Reference Level (HRL) ²	10.3	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
¹ Bolded data indicate value was used in attribute so	-								-
² For the CCL process HRLs were calculated by con	nverting the RfD or of	ther dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	elative Source Contrib	ution of 20%. For carcin	ogens, the concent	tration at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water	12,343	28	0.227	0.03	19.8	0.7	10	19.8	ug/L	
NCOD Round 2 finished water	22,974	34	0.148	0.1	22	0.6	4.6	22	ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water	4,309	25	0.58	0.005	11	0.39	2.81	11	ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (HRL/NCOD R1 90%)		Non-c	ancer: 1.03			Cancer				
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
COOLENT FORMER OF DATA		lbs/yr	2002							
Use	Solvent for coatin	g compositions, o		plasticizer, and surface	e active agents (I	HSDB)				
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life	15	days	BS	PBT; BS = biodegrades slowly						
K _{OC} , Organic Carbon Partition Coefficient	7,200	L/kg								
log K _{ow} , Octanol Water Partition Coeff.	4.57	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	1.80E-02	atm-m ³ /mol								
Water Solubility	17.6	mg/L								
% water PBT profiler	15									

Contaminant:	Strontium]		Attribute	e Scores		3-model Categorical Prediction
Substance Key:	18848				Potency	Severity	Prevalence		L?
Contaminant ID (CASRN):	7440246				3	5	10	10	
									HRL Ratio(s) NC HRL/NIRS 90%: 3.88
HEALTH EFFECTS DATA ¹				1			1		
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dos	se	
EPA IRIS (ITER) RfD	0.6	mg/kg-d	1992	Rachitic bone			Reference Do mg/kg-d	ose; Storey, 1961; Mar	ie et al., 1985; Skoryna, 1981; UF = 300; Rat; Basis NOAEL = 19
EPA HA RfD	0.6	mg/kg-d	2006				Reference Dos	se	
RAISHE RfD	0.6	mg/kg-d					Reference Dos	se; IRIS	
ATSDR (ITER), MRL	2	mg/kg-d	2004	Musculo-skeletal effe	ects		Minimal Risk L	evel; UF = 30; MRL-Int	t
JMPR, maximum ADI		mg/kg-d					Acceptable Da	aily Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Da	aily Intake	
ITER, TDI							Tolerable Dail	y Intake	
Supplemental RfD-like value							Supplemental	Data	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed I	Effect Level	
Supplemental NOEL		mg/kg-d					Supplemental	Data	
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observ	ved Adverse Effect Lev	el
Supplemental LOAEL		mg/kg-d					Supplemental	Data	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification	D		1993					ications were used for s otency scoring.	screening, but no related quantitative cancer risk data were
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?		Y/N							
Is the contaminant on a list of reproductive toxins?		Y/N							
EPAHA-DWEL	20	mg/L	2006				Drinking Wate	r Equivalent Level	
Health Reference Level (HRL) ²	4,200	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
¹ Bolded data indicate value was used in attribute so	coring								
² For the CCL process HRLs were calculated by cor	verting the RfD or o	ther dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70) Kg adult, and a Re	elative Source Contrib	oution of 20%. For c	arcinogens, the concentra	ation at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water	989	980	99.1	1.5	43,550	178	1,080	7,340	ug/L	
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (HRL/NIRS 90%)		Non-c	ancer: 3.88			Cancer	:			
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
		lbs/yr	2002							
Use	Use data are for s	trontium carbona		s; steel production; cat	alyst; lead scave	enger (HSDB); natural	ly-occurring			
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BST	assumed persistent; All use and env. fate data are for strontium carbonate; BST = biodegrades sometimes/recalcitrant						
K _{oc} , Organic Carbon Partition Coefficient		L/kg								
log K _{OW} , Octanol Water Partition Coeff.		unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant		unitless								
Water Solubility	11	mg/L								
% water PBT profiler										

Contaminant:	Tebuconazole]		Attribute			3-model Categorical Prediction
Substance Key:	69191 107534963			-	Potency	Severity 7	Prevalence 9		L?-L
Contaminant ID (CASRN):	107534963			1	5	1	9	6	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									NC HRL/GWC EEC: 9.09
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD	0.029	mg/kg-d	2008	Decreased body we measurements and				e; Basis = LOAEL 8.8), pp 27748-27756.	mg/kg-d; UF = 300. Federal Register: May 14, 2008 (Volume
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose	e	
EPA HA RfD		mg/kg-d					Reference Dose	e	
RAISHE RfD		mg/kg-d					Reference Dose	e	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	evel	
JMPR, maximum ADI	0.03	mg/kg-d	1994				Acceptable Dail	ly Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Dail	ly Intake	
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value							Supplemental E	Data	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	ffect Level	
Supplemental NOEL		mg/kg-d					Supplemental D	Data	
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observe	ed Adverse Effect Level	
Supplemental LOAEL		mg/kg-d					Supplemental D	Data	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50	1,000	mg/kg		Behavioral - food inta	ake (animal)				nical Information Service. (Springfield, VA 22161) Formerly U.S. I Information. Volume(issue)/page/year OTS0545183
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification	С		2008				OPP; 73 FR No	o. 94, pp 27748-27756.	
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?		Y/N							
Is the contaminant on a list of reproductive toxins?		Y/N							
EPAHA-DWEL							Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²	210	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
¹ Bolded data indicate value was used in attribute se	coring								
² For the CCL process HRLs were calculated by cor	nverting the RfD or ot	ther dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	lative Source Contribut	tion of 20%. For ca	rcinogens, the concentration	on at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total	478,568	lbs/yr	16	States	1997					
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data										
OPP Estimated Environmental Concentration		Surface water ch	nronic: 14 ug/L			Ground water chronic	c: 23.1 ug/L			
HRL Ratios (HRL/GWC EEC)		Non-c	ancer: 9.09			Cancer				
Production	Amount Range	Units	Year							
		lbs/yr	1998							
CUSIUR Production Data		lbs/yr	2002							
Use	Fungicide (HSDB)		<u> </u>						
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BST	PBT; BST = biodegrad	des sometimes/r	ecalcitrant				
K _{OC} , Organic Carbon Partition Coefficient		L/kg								
log K _{OW} , Octanol Water Partition Coeff.	3.7	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	1.45E-10	atm-m ³ /mol								
Water Solubility	36	mg/L								
% water PBT profiler	9									

Contaminant:	Tebufenozide]		Attribute S	cores		3-model Categorical Prediction
Substance Key:	69514				Potency	Severity	Prevalence Magr		L?
Contaminant ID (CASRN):	112410238]	5	6	9	5	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									NC HRL/SWC EEC: 8.4
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD	0.018	mg/kg-d	1999	Growth retardation, parameters, change histopathological le	es in organ weight	s, and	Reference Dose; Basis 56690-56697, October :		, UF = 100. Federal Register: 64 FR, No. 203, pp
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose		
EPA HA RfD		mg/kg-d					Reference Dose		
RAISHE RfD		mg/kg-d					Reference Dose		
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Level		
JMPR, maximum ADI	0.02	mg/kg-d	2003	Effect on erythrocyte and histopathologica pigment, and extra-m	I lesions in the sple	en (congestion,	Acceptable Daily Intake		
CEDIADI, ADI		mg/kg-d					Acceptable Daily Intake		
ITER, TDI							Tolerable Daily Intake		
Supplemental RfD-like value							Supplemental Data		
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Effect Lev	el	
Supplemental NOEL		mg/kg-d					Supplemental Data		
RTECS Lowest Oral Chronic LOAEL	8.7	mg/kg-d		Blood - normocytic a	nemia, Blood - thro	mbocytopenia		ice, Supt. of Documents	study in dog; FEREAC Federal Register. (U.S. 8, Washington, DC 20402) V.1- 1936-
Supplemental LOAEL		mg/kg-d					Supplemental Data		
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?		Y/N							
Is the contaminant on a list of reproductive toxins?		Y/N							
EPAHA-DWEL							Drinking Water Equivale	nt Level	
Health Reference Level (HRL) ²	126	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
¹ Bolded data indicate value was used in attribute s	coring								
² For the CCL process HRLs were calculated by co	nverting the RfD or o	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70) Kg adult, and a Rela	ative Source Contribut	ion of 20%. For carcinogens	, the concentration at the f	10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes	
Finished Water Occurrence Data											
UCMR finished water									ug/L		
NCOD Round 1 finished water									ug/L		
NCOD Round 2 finished water									ug/L		
NIRS finished water											
Ambient Water Occurrence Data											
NAWQA ambient water									ug/L		
NREC ambient surface water							ug/L	National Reconnaissance			
NREC ambient ground water					ug/L National Reconnaissa						
NREC ambient surface water									ug/L	National Aggregate	
NREC ambient ground water									ug/L	National Aggregate	
Application/Release	Amount Released	Units	Number of States	Units	Units Year Notes						
NCFAP Pesticide Application - total	104,413	lbs/yr	17	States	1997						
TRI Release - surface water		lbs/yr		States							
TRI Release - total		lbs/yr		States							
Supplemental Water Data											
OPP Estimated Environmental Concentration		Surface water ch	nronic: 15 ug/L			Ground water chroni	c: 1.19 ug/L				
	-										
HRL Ratios (HRL/SWC EEC)		Non-o	cancer: 8.4			Cancer	r:				
Production	Amount Range	Units	Year								
CUSIUR Production Data		lbs/yr	1998								
		lbs/yr	2002								
Use	Insecticide (HSDE	3)		·							
Environmental Fate Parameters	Value	Units	Degradation Code					Notes			
T _{1/2} , Half life		length of time	BST	PBT; BST = biodegrades sometimes/recalcitrant							
K _{OC} , Organic Carbon Partition Coefficient		L/kg									
log K _{OW} , Octanol Water Partition Coeff.	4.25	unitless									
Kd, Distribution coefficient		L/kg									
HLC, Henry's Law Constant	1.26E-08	atm-m ³ /mol									
Water Solubility	0.83	mg/L									
% water PBT profiler	11										

Contaminant:	Tellurium]		Attribute	Scores		3-model Categorical Prediction
Substance Key:	23035				Potency	Severity	Prevalence		L?
Contaminant ID (CASRN):	13494809			J	5	7	4	9	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									NC HRL/NIRS 90%: 0.673
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose	9	
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose	2	
EPA HA RfD		mg/kg-d					Reference Dose	2	
RAISHE RfD		mg/kg-d					Reference Dose	9	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	evel	
JMPR, maximum ADI		mg/kg-d					Acceptable Dail	y Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Dail	y Intake	
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value							Supplemental D	Data	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	ffect Level	
Supplemental NOEL	25	mg/kg-d		Maternal toxicity			Supplemental	Data; No Observed Effe	ect Level; Johnson et al., 1988
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observe	ed Adverse Effect Level	
Supplemental LOAEL		mg/kg-d					Supplemental D	Data	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50	20	mg/kg		Details of toxic effect value	s not reported oth	ner than lethal dose			ters of Industrial Toxic Chemicals Under Single Exposure," International Projects, GKNT, 1982 Volume(issue)/page/year -
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?		Y/N							
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Teratogen			UMD		
EPAHA-DWEL							Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²	175	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
¹ Bolded data indicate value was used in attribute se	coring								
² For the CCL process HRLs were calculated by cor	nverting the RfD or ot	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	elative Source Contrib	ution of 20%. For ca	rcinogens, the concentratio	n at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water	989	4	0.4	15	370	22	260	360	ug/L	
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (HRL/NIRS 90%)		Non-ca	ancer: 0.673			Cancer				
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
COSIDIC FIGUREIRON Data		lbs/yr	2002							
Use	Use data are for s	odium tellurite:		cine (HSDB); naturally-	occurring					
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BST	assume persistent; Al	use and env. fa	ate data are for sodium	n tellurite; BST =	biodegrades sor	netimes/recalcitra	ant
K _{OC} , Organic Carbon Partition Coefficient		L/kg								
log K _{OW} , Octanol Water Partition Coeff.		unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant		unitless								
Water Solubility		mg/L								
% water PBT profiler	1									

Contaminant:	Terbufos]			ute Scores			3-model Categorical Prediction
Substance Key:	22585				Potency	Severity	Prevalence	Magnitude		NL
Contaminant ID (CASRN):	13071799				7	3	1	1		HRL Ratio(s)
HEALTH EFFECTS DATA ¹										NC HRL/NAWQA 90%: 1.67
Non-cancer data	Value	Units	Date		Critical Effect				١	Notes
EPA OPP RfD	0.00005	mg/kg-d		Plasma ChE inhibit	ion		Reference Dose	; Basis = NOAEL 0.0)05 mg/kg-d; U	JF = 100.
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose			
EPA HA RfD	0.00005	mg/kg-d	2006				Reference Dose			
RAISHE RfD	0.000025	mg/kg-d					Reference Dose			
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Lev	el		
JMPR, maximum ADI	0.0002	mg/kg-d	1989				Acceptable Daily	Intake		
CEDIADI, ADI		mg/kg-d					Acceptable Daily	Intake		
ITER, TDI							Tolerable Daily In	itake		
Supplemental RfD-like value							Supplemental Da	ta		
CTDJPN Highest Chronic? NOEL		mg/kg-d					No Observed Effe	ect Level		
Supplemental NOEL		mg/kg-d					Supplemental Da	ta		
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observed	Adverse Effect Leve	1	
Supplemental LOAEL		mg/kg-d					Supplemental Da	ta		
HSDB Lowest Oral LD50		mg/kg								
CTDJPN Lowest Oral LD50		mg/kg								
RTECS Lowest Oral LD50		mg/kg								
Cancer Data										
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L								
RAISHE Slope Factor		(mg/kg-d) ⁻¹								
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹								
EPA Carcinogen classification	D		1988				Cancer classificat potency scoring.	tions were used for s	creening, but n	o related quantitative cancer risk data were identified for
IARC Carcinogen Classification										
Other Supporting Data										
Is contaminant on list of carcinogens?		Y/N								
Is the contaminant on a list of reproductive toxins?		Y/N								
EPAHA-DWEL	0.002	mg/L	2006				Drinking Water E	quivalent Level		
Health Reference Level (HRL) ²	0.35	ug/L								
Health Reference Level (HRL) ² cancer		ug/L								
¹ Bolded data indicate value was used in attribute s	scoring									

² For the CCL process HRLs were calculated by converting the RfD or other dose to ug/L, assuming 2 L/day of water consumed by a 70 Kg adult, and a Relative Source Contribution of 20%. For carcinogens, the concentration at the 10⁻⁶ cancer risk was used.

Terbufos CCL 3 Contaminant Information Sheet OCCURRENCE DATA¹

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water	300	0	0	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water	7,118	22	0.31	0.0021	0.56	0.017	0.21	0.56	ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total	6,515,603	lbs/yr	37	States	1997					
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	95% of Detects			Notes
PPMP ambient water		0	0		Not Detected		Not Detected	ug/L	Pesticide Pilot M	Iontoring Program (USGS/EPA)
PPMP finished water		0	0		Not Detected		Not Detected	ug/L		
	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	Units for Mag data		Notes
CAL DHS	61	0	0					ug/L	Drinking water n http://www.cdph ts.aspx	nonitoring; .ca.gov/certlic/drinkingwater/Pages/Chemicalcontamina
STORET	915	11	1.2	0.1	3.2	0.185	0.202	ug/L		
HRL Ratios (HRL/NAWQA 90%)		Non-c	ancer: 1.67			Canc	er:			
Production	Amount Range	Units	Year						•	
		lbs/yr	1998							
CUSIUR Production Data		lbs/yr	2002							
Use	Insecticide (HSDE	3)								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life	38	days		BSA = biodegrades s	slowly with acclimat	ion				
K _{OC} , Organic Carbon Partition Coefficient	500-5,000	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	4.48	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	2.40E-05	atm-m ³ /mol								
Water Solubility	5.07	mg/L								
% water PBT profiler	14									

3-model Categorical Prediction

NL

HRL Ratio(s) NC HRL/NAWQA 90%: 1.67 (NAWQA data and HRL

Contaminant:	Terbufos sulfone			
Substance Key:	37071		Potency	Г
Contaminant ID (CASRN):	5607016		7	Г
		-	Scores based on p	Jar

	Attribute	Scores	
Ι	Severity	Prevalence	Magnitude
	3	1	1
ba	arent	Scores based on p	arent

HEALTH EFFECTS DATA ¹ - See parent To	erbufos					NC HRL/NAWQA 90%: 1.67 (NAWQA data and HRL for parent terbufos)
Non-cancer data	Value	Units	Date	Critical Effect	N	otes
EPA OPP RfD	0.00005	mg/kg-d		Plasma ChE inhibition	Reference Dose - FOR PARENT TERBUFOS	
EPA IRIS (ITER) RfD		mg/kg-d			Reference Dose	
EPA HA RfD		mg/kg-d			Reference Dose	
RAISHE RfD		mg/kg-d			Reference Dose	
ATSDR (ITER), MRL		mg/kg-d			Minimal Risk Level	
JMPR, maximum ADI		mg/kg-d			Acceptable Daily Intake	
CEDIADI, ADI		mg/kg-d			Acceptable Daily Intake	
ITER, TDI					Tolerable Daily Intake	
Supplemental RfD-like value					Supplemental Data	
CTDJPN Highest Chronic NOEL		mg/kg-d			No Observed Effect Level	
Supplemental NOEL		mg/kg-d			Supplemental Data	
RTECS Lowest Oral Chronic LOAEL		mg/kg-d			Lowest Observed Adverse Effect Level	
Supplemental LOAEL		mg/kg-d			Supplemental Data	
HSDB Lowest Oral LD50		mg/kg				
CTDJPN Lowest Oral LD50		mg/kg				
RTECS Lowest Oral LD50		mg/kg				
Cancer Data						
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L				
RAISHE Slope Factor		(mg/kg-d) ⁻¹				
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹				
EPA Carcinogen classification						
IARC Carcinogen Classification						
Other Supporting Data	•					
Is contaminant on list of carcinogens?		Y/N				
Is the contaminant on a list of reproductive toxins?		Y/N				
EPAHA-DWEL					Drinking Water Equivalent Level	
Health Reference Level (HRL) ²	0.35	ug/L			Based on data for parent terbufos	
Health Reference Level (HRL) ² cancer		ug/L				
¹ Bolded data indicate value was used in attribute sc	coring			•	•	
² For the CCL process HRLs were calculated by con	overting the RfD or o	other dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70 Kg adult, and a Relative Source Contributio	n of 20%. For carcinogens, the concentration at the 10 $$ ⁻⁶ can	cer risk was used.

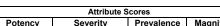
% PWSs/Sites Units for Mag # PWSs/Sites Maximum value Minimum value of Median value of # with Detects 90% of Detects 99% of Detects Notes sampled with detects Detects of Detects Detects data FOR TERBUFOS - PARENT **Finished Water Occurrence Data** UCMR finished water 300 0 0 Not Detected Not Detected Not Detected Not Detected Not Detected ug/L NCOD Round 1 finished water 0 mg/L NCOD Round 2 finished water 0 mg/L NIRS finished water Ambient Water Occurrence Data FOR TERBUFOS - PARENT NAWQA ambient water 7,118 22 0.31 0.0021 0.56 0.017 0.21 0.56 ug/L NREC ambient surface water ug/L National Reconnaissance NREC ambient ground water ug/L National Reconnaissance NREC ambient surface water National Aggregate ug/L NREC ambient ground water ug/L National Aggregate Amount Number of Application/Release Units Units Year Notes Released States NCFAP Pesticide Application - total States lbs/yr TRI Release - surface water lbs/yr States TRI Release - total lbs/yr States % # Supplemental Water Data PWSs/Sites/Sam Minimum value of Maximum value Median value of Units for Mag PWSs/Sites/Sa # with Detects 90% of Detects Notes FOR TERBUFOS - PARENT of Detects ples with Detects Detects data mples detects Drinking water monitoring; CAL DHS 61 0 0 ug/L http://www.cdph.ca.gov/certlic/drinkingwater/Pages/Chemicalcontaminan ts.aspx STORET 915 11 1.2 0.1 3.2 0.185 0.202 ug/L Pesticide Pilot Montoring Program (USGS/EPA) FROM TERBUFOS O-PPMP finished water 2 0.9 0.016 ug/L ANALOGUE SULFONE Pesticide Pilot Montoring Program (USGS/EPA) FROM TERBUFOS O-PPMP ambient water 0 0 ug/L ANALOGUE SULFONE HRL Ratios (HRL/NAWQA 90%) Non-cancer: 1.67 NAWQA data and HRL for Parent Terbufos Cancer: Production Amount Range Units Year lbs/yr 1998 CUSIUR Production Data 2002 lbs/yr Use Pesticide degradate Degradation Environmental Fate Parameters Value Units Notes Code T_{1/2}, Half life BSA 38 length of time PBT; BSA = biodegrades slowly with acclimation K_{OC}, Organic Carbon Partition Coefficient L/kg log K_{OW}, Octanol Water Partition Coeff. unitless Kd, Distribution coefficient L/kg 2.21E-08 atm-m³/mol HLC, Henry's Law Constant Water Solubility mg/L % water PBT profiler 21

Contaminant:	Thiodicarb			1	[Attribute	Scores			3-model Categorical Prediction
Substance Key:	38116				Potency	Severity	Prevalence			L? - L
Contaminant ID (CASRN):	59669260				5	8	10	6		HRL Ratio(s)
										NC HRL/SWC EEC: 8.1
HEALTH EFFECTS DATA ¹										CAR HRL/SWC EEC: 0.07
Non-cancer data	Value	Units	Date		Critical Effect					Notes
EPA OPP RfD	0.03	mg/kg-d	1998	Extramedulary hema cholinesterase activit		reased red blood cell	Reference Do study.	se; Basis NOEL = 3.3	3 mg/kg-d (mal	es) and 4.5 mg/kg-d (females); UF = 100; chronic rat
EPA IRIS (ITER) RfD		mg/kg-d					Reference Do	se		
EPA HA RfD		mg/kg-d					Reference Do	se		
RAISHE RfD		mg/kg-d					Reference Do	se		
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk	_evel		
JMPR, maximum ADI	0.03	mg/kg-d	2000				Acceptable Da	aily Intake		
CEDIADI, ADI		mg/kg-d					Acceptable Da	aily Intake		
ITER, TDI							Tolerable Dail	y Intake		
Supplemental RfD-like value							Supplemental	Data		
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed	Effect Level		
Supplemental NOEL		mg/kg-d					Supplemental	Data		
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Obser	ved Adverse Effect L	evel	
Supplemental LOAEL		mg/kg-d					Supplemental	Data		
HSDB Lowest Oral LD50		mg/kg								
CTDJPN Lowest Oral LD50		mg/kg								
RTECS Lowest Oral LD50		mg/kg								
Cancer Data										
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L								
OPP Slope Factor (oral)	0.0188	(mg/kg-d) ⁻¹								
RAISHE Slope Factor		(mg/kg-d) ⁻¹								
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹								
EPA Carcinogen classification	B2									
IARC Carcinogen Classification										
Other Supporting Data	•									
Is contaminant on list of carcinogens?	Y	Y/N					CACART; EP	٩		
Is the contaminant on a list of reproductive toxins?		Y/N								
EPAHA-DWEL							Drinking Wate	r Equivalent Level		
Health Reference Level (HRL) ²	210	ug/L								
Health Reference Level (HRL) ² cancer	1.86	ug/L								
¹ Bolded data indicate value was used in attribute s	coring									
² For the CCL process HRLs were calculated by co	pyorting the BfD or o	ther does to us/	acuming 21/day of	water concurred by a 70	Ka adult and a Da	alativa Cauraa Cantribu		arainagana tha annoar	tration at the 10	-6

² For the CCL process HRLs were calculated by converting the RfD or other dose to ug/L, assuming 2 L/day of water consumed by a 70 Kg adult, and a Relative Source Contribution of 20%. For carcinogens, the concentration at the 10⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data		1		1		1				
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data								-		
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total	821,267	lbs/yr	27	States	1997					
TRI Release - surface water	0.05	lbs/yr	1	States	2004					
TRI Release - total	1,430	lbs/yr	3	States	2004					
Supplemental Water Data										
OPP Estimated Environmental Concentration		Surface water ch	nronic: 26 ug/L			Ground water chroni	c: 0 ug/L			
HRL Ratios (HRL/SWC EEC)		Non-c	ancer: 8.1			Cancer:	0.07			
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
COSIDIC FIGUREIRON Data		lbs/yr	2002							
Use	Insecticide (HSDE	3)								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BSA	PBT; BSA = biodegra	des slowly with a	acclimation				
K _{oc} , Organic Carbon Partition Coefficient		L/kg								
log K _{ow} , Octanol Water Partition Coeff.	1.7	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	9.33E-07	atm-m ³ /mol								
Water Solubility	35	mg/L								
% water PBT profiler	36									

Contaminant:	Thiophanate-methyl
Substance Key:	27753
Contaminant ID (CASRN):	23564058



Contaminant:	Thiophanate-methyl			Attribute S	Scores		3-model Categorical Prediction
Substance Key:	27753		Potency	Severity	Prevalence	Magnitude	L? - L
Contaminant ID (CASRN):	23564058		5	8	10	6	L!-L
		-					HRL Ratio(s)
							NC HRL/SWC EEC: 45.9

EPA-OGWDW

HEALTH EFFECTS DATA¹

HEALTH EFFECTS DATA ¹						NC HRL/SWC EEC: 45.9 CAR HRL/SWC EEC: 0.248
Non-cancer data	Value	Units	Date	Critical Effect		Notes
EPA OPP RfD	0.08	mg/kg-d	2004	Thyroid and liver effects and decreased body weight	Reference Dose; Basis NOEL = 8 mg/kg-d; UF =	100; chronic dog study.
EPA IRIS (ITER) RfD	0.08	mg/kg-d	1986	Decreased body weight, decreased spermatogenesis and histological evidence of hyperthyroidism	Reference Dose; Basis = NOEL 8 mg/kg-d; UF =	100.
EPA HA RfD		mg/kg-d			Reference Dose	
RAISHE RfD	0.08	mg/kg-d			Reference Dose	
ATSDR (ITER), MRL		mg/kg-d			Minimal Risk Level	
JMPR, maximum ADI	0.08	mg/kg-d	1998		Acceptable Daily Intake	
CEDIADI, ADI		mg/kg-d			Acceptable Daily Intake	
ITER, TDI					Tolerable Daily Intake	
Supplemental RfD-like value					Supplemental Data	
CTDJPN Highest Chronic NOEL		mg/kg-d			No Observed Effect Level	
Supplemental NOEL		mg/kg-d			Supplemental Data	
RTECS Lowest Oral Chronic LOAEL	1.2	mg/kg-d		Endocrine - evidence of thyroid hypofunction, Endocrine - changes in thyroid weight, Nutritional and Gross Metabolic - weight loss or decreased weight gain		Federal Register. (U.S. Government Printing Office, 1936- Volume(issue)/page/year 67,14944,2002
Supplemental LOAEL		mg/kg-d			Supplemental Data	
HSDB Lowest Oral LD50		mg/kg				
CTDJPN Lowest Oral LD50		mg/kg				
RTECS Lowest Oral LD50	2,270	mg/kg		Sense Organs and Special Senses (Eye) - mydriasis (pupillary dilation), Behavioral - somnolence (general depressed activity), Behavioral - convulsions or effect on seizure threshold	TXAPA9 Toxicology and Applied Pharmacology. V.1- 1959- Volume(issue)/page/year 23,606,19	(Academic Press, Inc., 1 E. First St., Duluth, MN 55802 72
Cancer Data						
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L				
OPP Slope Factor (oral)	0.0116	(mg/kg-d) ⁻¹				
RAISHE Slope Factor		(mg/kg-d) ⁻¹				
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹				
EPA Carcinogen classification	С				OPP	
IARC Carcinogen Classification						
Other Supporting Data						
Is contaminant on list of carcinogens?	Y	Y/N			EPA	
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Female & male reproductive toxicity	CACART	
EPAHA-DWEL					Drinking Water Equivalent Level	
Health Reference Level (HRL) ²	560	ug/L				
Health Reference Level (HRL) ² cancer	3.02	ug/L				
¹ Bolded data indicate value was used in attribute so	coring	-		·	•	
² For the CCL process HRLs were calculated by cor	overting the RfD or o	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70 Kg adult, and a Relative Source Contribut	tion of 20%. For carcinogens, the concentration at the 10	⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data						•				
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total	453,792	lbs/yr	40	States	1997					
TRI Release - surface water	0	lbs/yr	0	States	2004					
TRI Release - total	92	lbs/yr	3	States	2004					
Supplemental Water Data										
OPP Estimated Environmental Concentration		Surface water ch	nronic: 12.2 ug/L			Ground water chronic	c: 3.03 ug/L			
HRL Ratios (HRL/SWC EEC)		Non-c	ancer: 45.9			Cancer: 0	.248			
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
COSIDIC FIGUREIRON Data		lbs/yr	2002							
Use	Fungicide (HSDB)								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BF	BF = biodegrades fast	t					
K _{OC} , Organic Carbon Partition Coefficient	14.32	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	1.4	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	2.94E-13	atm-m ³ /mol								
Water Solubility	438.9	mg/L								
% water PBT profiler										

Contaminant:	Toluene diisocya	anate]		Attribute			3-model Categorical Predict	ion
Substance Key: Contaminant ID (CASRN):	29421 26471625				Potency 5	Severity 8	Prevalence 10	Magnitude 7	L	
Containinant ID (CASKN).	2047 1023			J	5	0	10	'	HRL Ratio(s)	
HEALTH EFFECTS DATA									No water data	
Non-cancer data	Value	Units	Date		Critical Effect				Notes	
EPA OPP RfD		mg/kg-d					Reference Dose			
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose	1		
EPA HA RfD		mg/kg-d					Reference Dose	1		
RAISHE RfD		mg/kg-d					Reference Dose	1		
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	vel		
JMPR, maximum ADI		mg/kg-d					Acceptable Daily	/ Intake		
CEDIADI, ADI		mg/kg-d					Acceptable Daily	/ Intake		
ITER, TDI							Tolerable Daily I	ntake		
Supplemental RfD-like value							Supplemental D	ata		
CTDJPN Highest Chronic NOEL	30	mg/kg-d		Burns throat immedia	ately.		No Observed Ef	fect Level		
Supplemental NOEL		mg/kg-d					Supplemental D	ata		
RTECS Lowest Oral Chronic LOAEL	85.7	mg/kg-d		Related to Chronic D	ata - death				l; NTPTR National Toxicology Program Technical Re No.206- Volume(issue)/page/year NTP-TR-251,1986	
Supplemental LOAEL		mg/kg-d					Supplemental D	ata		
HSDB Lowest Oral LD50 ¹		mg/kg								
CTDJPN Lowest Oral LD50 ¹		mg/kg								
RTECS Lowest Oral LD50 ¹		mg/kg								
Cancer Data										
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L								
RAISHE Slope Factor		(mg/kg-d) ⁻¹								
OEHHA Slope Factor (oral)	0.039	(mg/kg-d) ⁻¹					Applies to mixt	ure of 2,4- and 2,6- i	somers.	
EPA Carcinogen classification										
IARC Carcinogen Classification	2B		1999							
Other Supporting Data										
Is contaminant on list of carcinogens?	Y	Y/N					CACART; IARC	; OEHHA		
Is the contaminant on a list of reproductive toxins?		Y/N								
EPAHA-DWEL							Drinking Water B	Equivalent Level		
Health Reference Level (HRL) ²	210	ug/L								
Health Reference Level (HRL) ² cancer	0.9	ug/L								
¹ Bolded data indicate value was used in attribute so	coring	·		·			•			
² For the CCL process HRLs were calculated by cor	overting the RfD or of	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70) Kg adult, and a Re	lative Source Contrib	ution of 20%. For car	cinogens, the concentra	tion at the 10 ⁻⁶ cancer risk was used.	

OCCURRENCE DATA

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	1	lbs/yr	1	States						
TRI Release - total	129,143	lbs/yr	31	States						
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (No water data)		Nor	n-cancer:			Cancer	r:			
Production	Amount Range	Units	Year							
CUSIUR Production Data	>500M - 1B	lbs/yr	1998							
	>500M - 1B	lbs/yr	2002							
Use	In plastics manufa	acture (NTP)								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BSA	PBT; BSA = biodegrae	des slowly with a	acclimation				
K _{OC} , Organic Carbon Partition Coefficient	9,114	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	3.74	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	1.11E-05	atm-m ³ /mol								
Water Solubility	37.57	mg/L								
% water PBT profiler	17									

Contaminant:	Tribufos			7		Attribute	Scores		3-model Categorical Prediction
Substance Key:	2814					everity	Prevalence	Magnitude	L?
Contaminant ID (CASRN):	78488				6	3	9	8	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									NC HRL/SWC EEC: 3.89
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD	0.001	mg/kg-d		Plasma ChE inhibit	ion		Reference Dos	e; Basis = NOAEL 0.	.1 mg/kg-d; UF = 100.
EPA IRIS (ITER) RfD	0.00003	mg/kg-d	1988				Reference Dose	e; Basis NOAEL 0.1 m	ng/kg-d; Abou-Donia et al., 1979
EPA HA RfD		mg/kg-d					Reference Dose	9	
RAISHE RfD	0.00003	mg/kg-d					Reference Dose	9	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	vel	
JMPR, maximum ADI		mg/kg-d					Acceptable Dail	y Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Dail	y Intake	
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value							Supplemental D	ata	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	ffect Level	
Supplemental NOEL		mg/kg-d					Supplemental D	ata	
RTECS Lowest Oral Chronic LOAEL	4.08	mg/kg-d		inhibition, induction, other hydrolases, Bio	er changes, Biochemical or change in blood or tiss ochemical - Enzyme inhibi in blood or tissue levels -	ue levels - tion,	(Moscow). For	English translation, se	rel; 43 week study in rodent; FATOAO Farmakologiya i Toksikologiya ee PHTXA6 and RPTOAN. (V/O Mezhdunarodnaya Kniga, 113095 ie(issue)/page/year 38,96,1975
Supplemental LOAEL		mg/kg-d					Supplemental D	ata	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50	77	mg/kg		Details of toxic effect value	s not reported other than	lethal dose		ed Prumyslove Toxikol Volume(issue)/page	logie; Organicke Latky," Marhold, J., Prague, Czechoslovakia, s/year -,1188,1986
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?		Y/N							
Is the contaminant on a list of reproductive toxins?		Y/N							
EPAHA-DWEL							Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²	7	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
¹ Bolded data indicate value was used in attribute s	coring								
² For the CCL process HRLs were calculated by co	nverting the RfD or o	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70	Kg adult, and a Relative Sc	urce Contribu	tion of 20%. For ca	rcinogens, the concentra	ation at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data		•						•		
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total	4,918,265	lbs/yr	16	States	1997					
TRI Release - surface water	4	lbs/yr	1	States	2004					
TRI Release - total	7	lbs/yr	1	States	2004					
Supplemental Water Data	# PWSs/Sites/Sa mples	# with Detects	% PWSs/Sites/Sam ples with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	95% of Detects	Units for Mag data		Notes
PPMP ambient water		0	0					ug/L	Pesticide Pilot N	Nontoring Program (USGS/EPA)
PPMP finished water		0	0					ug/L		
OPP Estimated Environmental Concentration		Surface water cl	nronic 1.8 ug/L			Ground water chronic	c 0 ug/L			
HRL Ratios (HRL/SWC EEC)		Non-c	ancer: 3.89			Cance	r:			
Production	Amount Range	Units	Year							
	10K - 500K	lbs/yr	1998							
CUSIUR Production Data	10K - 500K	lbs/yr	2002							
Use	Insecticide; cottor	n defoliant (HSDE	3)							
Environmental Fate Parameters	Value	Units	Degradation code					Notes		
T _{1/2} , Half life		length of time	BF	BF = biodegrades fas	t					
K _{OC} , Organic Carbon Partition Coefficient	1,888	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	5.7	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	2.94E-07	atm-m ³ /mol								
Water Solubility	2.3	mg/L								
% water PBT profiler										

Tribufos CCL 3 Contaminant Information Sheet

OCCURRENCE DATA¹

Contaminant:	Triethylamine			1 1		Attribute	Scores		3-model Categorical Prediction
Substance Key:	5379				Potency	Severity	Prevalence	Magnitude	L
Contaminant ID (CASRN):	121448			J	6	5	10	9	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									No water data
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dose	9	
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose	e e e e e e e e e e e e e e e e e e e	
EPA HA RfD		mg/kg-d					Reference Dose	9	
RAISHE RfD		mg/kg-d					Reference Dose	2	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	evel	
JMPR, maximum ADI		mg/kg-d					Acceptable Dail	y Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Dail	y Intake	
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value							Supplemental D	Data	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	ffect Level	
Supplemental NOEL		mg/kg-d					Supplemental D	Data	
RTECS Lowest Oral Chronic LOAEL	1	mg/kg-d		Brain and Coverings	s - other degene	erative changes	Journal of Hea	Ith Toxicology. (Weishe	l; 30-week oral rat study; WDZAEK Weisheng Dulixue Zazhi. eng Dulixue Zazhi Bianjibu, Dongdaqiao, Chaoyang Menwai, Volume(issue)/page/year 4,45,1990
Supplemental LOAEL		mg/kg-d					Supplemental D	Data	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50	460	mg/kg		Details of toxic effects value	s not reported oth	ner than lethal dose			ene and Occupational Medicine. (Chicago, IL) V.2-10, 1950-54. Volume(issue)/page/year 4,119,1951
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?		Y/N							
Is the contaminant on a list of reproductive toxins?		Y/N							
EPAHA-DWEL							Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²	2.33	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
¹ Bolded data indicate value was used in attribute s	coring								
² For the CCL process HRLs were calculated by co	nverting the RfD or ot	her dose to ug/L, a	assuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	elative Source Contribu	tion of 20%. For ca	rcinogens, the concentration	at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	12,000	lbs/yr	14	States	2004					
TRI Release - total	1,167,219	lbs/yr	35	States	2004					
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (No water data)		Nor	n-cancer:			Cance	r:			
Production	Amount Range	Units	Year							
CUSIUR Production Data	>10M - 50M	lbs/yr	1998							
	>10M - 50M	lbs/yr	2002							
Use	Chemical interme	diate; stabilizer; i		ides; in consumer proc	ducts; food addit	ive; photographic che	mical; in carpet o	cleaners (HSDB)		
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BSA	PBT; BSA = biodegra	des slowly with a	acclimation				
K _{OC} , Organic Carbon Partition Coefficient	107.2	L/kg								
log K _{ow} , Octanol Water Partition Coeff.	1.45	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	1.49E-04	atm-m ³ /mol								
Water Solubility	73,700	mg/L								
% water PBT profiler	46									

Contaminant:	Triphenyltin hyd	roxide (TPTH)		1		Attribute	Scores		3-model Categorical Prediction
Substance Key:	2738				Potency	Severity		Magnitude	L
Contaminant ID (CASRN):	76879			J	8	8	10	6	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									NC HRL/SWC EEC: 0.33 CAR HRL/SWC EEC: 0.0003
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD	0.0003	mg/kg-d	1999	Decreased white bloc	od cells		Reference Dose;	OPP RED	
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dose		
EPA HA RfD		mg/kg-d					Reference Dose		
RAISHE RfD		mg/kg-d					Reference Dose		
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Leve	el	
JMPR, maximum ADI	0.0005	mg/kg-d	1970				Acceptable Daily I	ntake	
CEDIADI, ADI		mg/kg-d					Acceptable Daily I	ntake	
ITER, TDI							Tolerable Daily Inf	take	
Supplemental RfD-like value							Supplemental Dat	а	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed Effe	ct Level	
Supplemental NOEL		mg/kg-d					Supplemental Dat		
RTECS Lowest Oral Chronic LOAEL	0.15	mg/kg-d		Blood - changes in ot changes in leukocyte		specified), Blood -	Toxicology. (Lond		-day study in guinea pig; FCTXAV Food and Cosmetics For publisher information, see FCTOD7.
Supplemental LOAEL		mg/kg-d					Supplemental Dat	а	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
OPP Slope Factor (oral)	18.3	(mg/kg-d) ⁻¹							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification	B2								
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?	Y	Y/N					EPA; CACART		
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Teratogen; Developm	nental		UMD; CACART		
EPAHA-DWEL					-		Drinking Water Ec	uivalent Level	
Health Reference Level (HRL) ²	2.1	ug/L							
Health Reference Level (HRL) ² cancer	0.0019	ug/L							
¹ Bolded data indicate value was used in attribute se	coring								

² For the CCL process HRLs were calculated by converting the RfD or other dose to ug/L, assuming 2 L/day of water consumed by a 70 Kg adult, and a Relative Source Contribution of 20%. For carcinogens, the concentration at the 10⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data								-		
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total	660,971	lbs/yr	26	States	1997					
TRI Release - surface water	0	lbs/yr	0	States	2004					
TRI Release - total	0	lbs/yr	0	States	2004					
Supplemental Water Data										Notes
OPP Estimated Environmental Concentration		Surface water ch	nronic 6.4 ug/L			Ground water chroni	c 0 ug/L			
HRL Ratios (HRL/SWC EEC)		Non-c	ancer: 0.33			Cancer: 0	.0003			
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
		lbs/yr	2002							
Use	Pesticide (NTP)									
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time								
K _{OC} , Organic Carbon Partition Coefficient	2,000	L/kg								
log K _{OW} , Octanol Water Partition Coeff.	3.53	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant	4.26E-07	atm-m ³ /mol								
Water Solubility	0.4	mg/L								
% water PBT profiler										

Contaminant	Urethane]		Attribute	Scores			3-model Categorical Prediction
Substance Key:	2189			_	Potency	Severity	Prevalence			L
Contaminant ID (CASRN):	51796				6	9	7	6		HRL Ratio(s)
HEALTH EFFECTS DATA ¹										No water data
Non-cancer data	Value	Units	Date		Critical Effect					Notes
EPA OPP RfD		mg/kg-d					Reference Dos	e		
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dos	e		
EPA HA RfD		mg/kg-d					Reference Dos	e		
RAISHE RfD		mg/kg-d					Reference Dos	e		
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	evel		
JMPR, maximum ADI		mg/kg-d					Acceptable Dai	ly Intake		
CEDIADI, ADI		mg/kg-d					Acceptable Dai	ly Intake		
ITER, TDI							Tolerable Daily	Intake		
Supplemental RfD-like value							Supplemental [Data		
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	ffect Level		
Supplemental NOEL	0.9	mg/kg-d	2005	Decreased survival						icology 43 (2005) 1-19
RTECS Lowest Oral Chronic LOAEL	78	mg/kg-d		Liver - changes in live changes in bladder w (WBC) count			Lowest Observe Technical Repo 3937	ed Adverse Effect Lev ort Series. (Research	vel; 13 weel Triangle Pa	k oral study in rats; NTPTR National Toxicology Program ark, NC 27709) No.206- Volume(issue)/page/year NIH-96-
Supplemental LOAEL		mg/kg-d					Supplemental [Data		
HSDB Lowest Oral LD50		mg/kg								
CTDJPN Lowest Oral LD50		mg/kg								
RTECS Lowest Oral LD50		mg/kg								
Cancer Data										
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L								
RAISHE Slope Factor		(mg/kg-d) ⁻¹								
OEHHA Slope Factor (oral)	1	(mg/kg-d) ⁻¹								
EPA Carcinogen classification										
IARC Carcinogen Classification	2B		1987				Vol. 7, Suppl. 7	; 1987		
Other Supporting Data										
Is contaminant on list of carcinogens?	Y	Y/N		Developmental			IARC; CACART	Γ; OEHHA		
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Teratogen			UMD			
EPAHA-DWEL							Drinking Water	Equivalent Level		
Health Reference Level (HRL) ²	6.3	ug/L								
Health Reference Level (HRL) ² cancer	0.035	ug/L								
¹ Bolded data indicate value was used in attribute s	coring									
² For the CCL process HRLs were calculated by con	nverting the RfD or o	ther dose to ug/L, a	assuming 2 L/day of	water consumed by a 70) Kg adult, and a Re	elative Source Contribu	ution of 20%. For ca	rcinogens, the concentr	ration at the 1	10 ⁻⁶ cancer risk was used.

	# PWSs/Sites		% PWSs/Sites	Minimum value of	Maximum	Median value of	90% of		Units for Mag	
	sampled	# with Detects	with detects	Detects	value of Detects	Detects	Detects	99% of Detects	data	Notes
Finished Water Occurrence Data	•					l	•	1		
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water										
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year		•	1	Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water	0	lbs/yr	0	States	2004					
TRI Release - total	96,050	lbs/yr	7	States	2004					
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (No water data)		Noi	n-cancer:			Cance	ir:			
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
COSIOR FIGULLION Data		lbs/yr	2002							
Use	Paint ingredient (NTP)								
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BS	PBT; BS = Biodegrad	es Slowly					
K _{OC} , Organic Carbon Partition Coefficient		L/kg								
log K _{OW} , Octanol Water Partition Coeff.	-0.15	unitless								
log K _{ow} , Octanol Water Partition Coeff. Kd, Distribution coefficient	-0.15	unitless L/kg								
	-0.15 6.40E-08									
Kd, Distribution coefficient		L/kg								

Contaminant:	Vanadium]		Attribute			3-model Categorical Prediction
Substance Key:	18882			_	Potency	Severity	Prevalence	<u> </u>	L? - L
Contaminant ID (CASRN):	7440622]	6	5	10	8	HRL Ratio(s)
HEALTH EFFECTS DATA ¹									NC HRL/NIRS 90%: 0.913
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD		mg/kg-d					Reference Dos	e	
EPA IRIS (ITER) RfD		mg/kg-d					Reference Dos	e	
EPA HA RfD		mg/kg-d					Reference Dos	e	
RAISHE RfD	0.007	mg/kg-d					Reference Dos	e; HEAST	
ATSDR (ITER), MRL	0.003	mg/kg-d	1992	Minor renal effects (by increased plasm changes).				_evel; MRL-Int; UF = 100)
JMPR, maximum ADI		mg/kg-d					Acceptable Dai	ily Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Dai	ily Intake	
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value	1.8	mg/kg-d	2001	Kidney lesions and in	creases in plasm	na urea and uric acid	Supplemental [Data; IOM 2001 Dietary R	leference Intakes
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	ffect Level	
Supplemental NOEL		mg/kg-d					Supplemental [Data	
RTECS Lowest Oral Chronic LOAEL	960	mg/kg-d					Lowest Observ	ed Adverse Effect Level; I	Domestic mammal
Supplemental LOAEL		mg/kg-d					Supplemental [Data	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?		Y/N							
Is the contaminant on a list of reproductive toxins?		Y/N							
EPAHA-DWEL							Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²	21	ug/L							
Health Reference Level (HRL) ² cancer		ug/L							
¹ Bolded data indicate value was used in attribute se	coring			•					
² For the CCL process HRLs were calculated by cor	overting the RfD or ot	ther dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70	Kg adult, and a Re	elative Source Contribu	tion of 20%. For ca	arcinogens, the concentration	n at the 10 ⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes
Finished Water Occurrence Data										
UCMR finished water									ug/L	
NCOD Round 1 finished water									ug/L	
NCOD Round 2 finished water									ug/L	
NIRS finished water	989	146	14.76	3.1	70.4	7.27	23	45	ug/L	
Ambient Water Occurrence Data										
NAWQA ambient water									ug/L	
NREC ambient surface water									ug/L	National Reconnaissance
NREC ambient ground water									ug/L	National Reconnaissance
NREC ambient surface water									ug/L	National Aggregate
NREC ambient ground water									ug/L	National Aggregate
Application/Release	Amount Released	Units	Number of States	Units	Year				Notes	
NCFAP Pesticide Application - total		lbs/yr		States						
TRI Release - surface water		lbs/yr		States						
TRI Release - total		lbs/yr		States						
Supplemental Water Data	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	99% of Detects	Units for Mag data		Notes
HRL Ratios (HRL/NIRS 90%)		Non-ca	ancer: 0.913			Cancer	:			
Production	Amount Range	Units	Year							
CUSIUR Production Data		lbs/yr	1998							
COSION FIGURELION Data		lbs/yr	2002							
Use	Use data are for v	anadium pentoxi		rmediate; catalyst; (HS	SDB); naturally-o	ccurring				
Environmental Fate Parameters	Value	Units	Degradation Code					Notes		
T _{1/2} , Half life		length of time	BST	assumed persistent; A	All use and env. f	fate data are for vanad	dium pentoxide;	BST = biodegrad	es sometimes/re	calcitrant
K _{OC} , Organic Carbon Partition Coefficient		L/kg								
log K _{OW} , Octanol Water Partition Coeff.	1	unitless								
Kd, Distribution coefficient		L/kg								
HLC, Henry's Law Constant		atm-m ³ /mol								
Water Solubility	8,000	mg/L								
% water PBT profiler										

Contaminant:	Vinclozolin			7		Attribute	e Scores		3-model Categorical Prediction
Substance Key:	35005			Potency	Severity	Prevalence		L? - L	
Contaminant ID (CASRN):	50471448				5	8	10	5	
HEALTH EFFECTS DATA ¹									HRL Ratio(s) NC HRL/SWC EEC: 8.94 CAR HRL/SWC EEC: 0.058
Non-cancer data	Value	Units	Date		Critical Effect				Notes
EPA OPP RfD	0.012	mg/kg-d		Histopathological lesi eyes. Q1* 0.0638 (mg			Reference Dos	e; Basis = NOAEL 1.2 mg/	kg-d; UF = 100.
EPA IRIS (ITER) RfD	0.025	mg/kg-d	1986				Reference Dos	e; Basis = NOEL 2.5 mg/kg	g-d; UF = 100.
EPA HA RfD		mg/kg-d					Reference Dos	e	
RAISHE RfD	0.025	mg/kg-d					Reference Dos	e	
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk Le	evel	
JMPR, maximum ADI	0.01	mg/kg-d	1995				Acceptable Dai	ly Intake	
CEDIADI, ADI		mg/kg-d					Acceptable Dai	ly Intake	
ITER, TDI							Tolerable Daily	Intake	
Supplemental RfD-like value							Supplemental [Data	
CTDJPN Highest Chronic NOEL		mg/kg-d					No Observed E	ffect Level	
Supplemental NOEL		mg/kg-d					Supplemental E	Data	
RTECS Lowest Oral Chronic LOAEL		mg/kg-d					Lowest Observe	ed Adverse Effect Level	
Supplemental LOAEL		mg/kg-d					Supplemental [Data	
HSDB Lowest Oral LD50		mg/kg							
CTDJPN Lowest Oral LD50		mg/kg							
RTECS Lowest Oral LD50		mg/kg							
Cancer Data									
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L							
OPP Slope Factor (oral)	0.0638	(mg/kg-d) ⁻¹							
RAISHE Slope Factor		(mg/kg-d) ⁻¹							
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹							
EPA Carcinogen classification									
IARC Carcinogen Classification									
Other Supporting Data									
Is contaminant on list of carcinogens?	Y	Y/N					EPA		
Is the contaminant on a list of reproductive toxins?	Y	Y/N		Developmental			CACART		
EPAHA-DWEL							Drinking Water	Equivalent Level	
Health Reference Level (HRL) ²	84	ug/L							
Health Reference Level (HRL) ² cancer	0.549	ug/L							
¹ Bolded data indicate value was used in attribute s	scoring						•		

For the CCL process HRLs were calculated by converting the RfD or other dose to ug/L, assuming 2 L/day of water consumed by a 70 Kg adult, and a Relative Source Contribution of 20%. For carcinogens, the concentration at the 10⁻⁶ cancer risk was used.

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes	
Finished Water Occurrence Data											
UCMR finished water									ug/L		
NCOD Round 1 finished water									ug/L		
NCOD Round 2 finished water									ug/L		
NIRS finished water											
Ambient Water Occurrence Data											
NAWQA ambient water									ug/L		
NREC ambient surface water									ug/L	National Reconnaissance	
NREC ambient ground water									ug/L	National Reconnaissance	
NREC ambient surface water									ug/L	National Aggregate	
NREC ambient ground water									ug/L	National Aggregate	
Application/Release	Amount Released	Units	Number of States	Units	Year						
NCFAP Pesticide Application - total	121,959	lbs/yr	26	States	1997						
TRI Release - surface water	0	lbs/yr	0	States	2004						
TRI Release - total	0	lbs/yr	0	States	2004						
Supplemental Water Data											
OPP Estimated Environmental Concentration Surface water chronic						Ground water chronic: 0 ug/L					
HRL Ratios (HRL/SWC EEC)		Non-c	ancer: 8.94			Cancer: 0	.058				
Production	Amount Range	Units	Year								
CUSIUR Production Data		lbs/yr	1998								
		lbs/yr	2002								
Use	Fungicide (HSDB)									
Environmental Fate Parameters	Value	Units	Degradation Code	Notes							
T _{1/2} , Half life		length of time	BST	BST = biodegrades sometimes/recalcitrant							
K _{OC} , Organic Carbon Partition Coefficient	289	L/kg									
log K _{OW} , Octanol Water Partition Coeff.	3.1	unitless									
Kd, Distribution coefficient		L/kg									
HLC, Henry's Law Constant	1.33E-08	atm-m ³ /mol									
Water Solubility	2.6	mg/L									
% water PBT profiler											

Contaminant:	Ziram			1		Attribute	Scores				3-model Categorical Prediction	
Substance Key:	5947				Potency	Severity	Prevalence		nitude		L	
Contaminant ID (CASRN):	137304				5	8	10	7	7		HRL Ratio(s)	
HEALTH EFFECTS DATA ¹											NC HRL/SWC EEC: 56.6 CAR HRL/SWC EEC: 0.288	
Non-cancer data	Value	Units	Date		Critical Effect						Notes	
EPA OPP RfD	0.016	mg/kg-d		Decreased body weig	Reference Do	Reference Dose; Basis = NOAEL 1.6 mg/kg-d; UF = 100.						
EPA IRIS (ITER) RfD		mg/kg-d					Reference Do	se				
EPA HA RfD		mg/kg-d					Reference Do	Reference Dose				
RAISHE RfD		mg/kg-d			Reference Do	Reference Dose						
ATSDR (ITER), MRL		mg/kg-d					Minimal Risk I	_evel				
JMPR, maximum ADI	0.003	mg/kg-d	1996	Decreased body weig	ght		Acceptable Da	Acceptable Daily Intake; Group ADI for Ferbam and Ziram				
CEDIADI, ADI		mg/kg-d					Acceptable Da	Acceptable Daily Intake				
ITER, TDI							Tolerable Dail	y Intake				
Supplemental RfD-like value							Supplemental	Data				
CTDJPN Highest Chronic NOEL		mg/kg-d		No Observed Effect Level								
NOAEL	1.6	mg/kg-d					OPP					
RTECS Lowest Oral Chronic LOAEL	1	mg/kg-d		Gastrointestinal - hyp	Science Socie	Lowest Observed Adverse Effect Level; NNGADV Nippon Noyaku Gakkaishi. Journal of the Pesticide Science Society of Japan. (Nippon Noyaku Gakkai, 1-43-11, Komagome, Toshima-ku, Tokyo 170, Japan) V.1- 1976- Volume(issue)/page/year 17,S155,1992						
Supplemental LOAEL		mg/kg-d					Supplemental	Data				
HSDB Lowest Oral LD50		mg/kg										
CTDJPN Lowest Oral LD50		mg/kg										
RTECS Lowest Oral LD50		mg/kg										
Cancer Data												
EPA Lifetime Cancer Risk, 10 ⁻⁴		mg/L										
OPP Slope Factor	0.0611	(mg/kg-d) ⁻¹										
OEHHA Slope Factor (oral)		(mg/kg-d) ⁻¹										
EPA Carcinogen classification	Suggestive (not quantified)											
IARC Carcinogen Classification	3											
Other Supporting Data												
Is contaminant on list of carcinogens?		Y/N										
Is the contaminant on a list of reproductive toxins?		Y/N										
EPAHA-DWEL							Drinking Wate	r Equivaler	nt Level			
Health Reference Level (HRL) ²	112	ug/L										
Health Reference Level (HRL) ² cancer	0.57	ug/L										
¹ Bolded data indicate value was used in attribute set	coring											
² For the CCL process HRLs were calculated by con	nverting the RfD or ot	ner dose to ug/L, a	ssuming 2 L/day of	water consumed by a 70) Kg adult, and a Re	elative Source Contrib	oution of 20%. For o	carcinogens	, the cond	entration at th	ne 10 ⁻⁶ cancer risk was used.	

	# PWSs/Sites sampled	# with Detects	% PWSs/Sites with detects	Minimum value of Detects	Maximum value of Detects	Median value of Detects	90% of Detects	99% of Detects	Units for Mag data	Notes	
Finished Water Occurrence Data											
UCMR finished water									ug/L		
NCOD Round 1 finished water									ug/L		
NCOD Round 2 finished water									ug/L		
NIRS finished water											
Ambient Water Occurrence Data											
NAWQA ambient water									ug/L		
NREC ambient surface water									ug/L	National Reconnaissance	
NREC ambient ground water									ug/L	National Reconnaissance	
NREC ambient surface water									ug/L	National Aggregate	
NREC ambient ground water									ug/L	National Aggregate	
Application/Release	Amount Released	Units	Number of States	Units	Year	Notes					
NCFAP Pesticide Application - total	1,992,552	lbs/yr	29	States							
TRI Release - surface water		lbs/yr		States							
TRI Release - total		lbs/yr		States							
Supplemental Water Data											
OPP Estimated Environmental Concentration	DPP Estimated Environmental Concentration Surface water chronic: 1.98 ug/L Ground water chronic: 0.03 ug/L										
HRL Ratios (HRL/SWC EEC)	Non-cancer: 56.6 Cancer: 0.288										
Production	Amount Range	Units	Year								
CUSIUR Production Data	>500K - 1M	lbs/yr	1998								
	>500K - 1M	lbs/yr	2002								
Use	Synthetic rubber of	chemical (NTP); f	ungicide								
Environmental Fate Parameters	Value	Units	Degradation Code	Notes							
T _{1/2} , Half life		length of time	BFA	BFA = Biodegrades Fast with Acclimation							
K _{OC} , Organic Carbon Partition Coefficient		L/kg									
log K _{OW} , Octanol Water Partition Coeff.		unitless									
Kd, Distribution coefficient		L/kg									
HLC, Henry's Law Constant	6.20E-10	atm-m ³ /mol									
Water Solubility		mg/L									
% water PBT profiler											