

Septic Cleaner (o-DCB) Full Analysis Results

Chemical: o-DCB

Product/Article: Drain and toilet cleaners

Use Environment: Residence - Bathroom

Scenario Description/Notes: Not provided

Septic Cleaner (o-DCB): Combined Analysis Results

Receptor	Inhalation		Ingestion		Dermal		Total	
	Acute Dose Rate (mg/kg/d)	Chronic Average Daily Dose (mg/kg/d)	Acute Dose Rate (mg/kg/d)	Chronic Average Daily Dose (mg/kg/d)	Acute Dose Rate (mg/kg/d)	Chronic Average Daily Dose (mg/kg/d)	Acute Dose Rate (mg/kg/d)	Chronic Average Daily Dose (mg/kg/d)
Lifetime_LADD	0.00E+00	3.28E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E+00
Adult	6.55E+00	4.49E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E+00	4.49E+00
Youth2	1.29E+00	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E+00	8.87E-01
Youth1	1.51E+00	1.04E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E+00	1.04E+00
Child2	2.14E+00	1.47E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	1.47E+00
Child1	3.07E+00	2.11E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E+00	2.11E+00
Infant2	3.78E+00	2.60E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E+00	2.60E+00
Infant1	4.01E+00	2.76E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E+00	2.76E+00

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Septic Cleaner (o-DCB): Inhalation Results

Chronic Inhalation Results:

Receptor	Background Chronic Dose (mg/kg/d)	Chronic Dose (mg/day)	Chronic ADD (mg/kg/d)	Chronic ADC Zone 1 (mg/m3)	Chronic
Adult	0.00E+00	3.59E+02	4.49E+00	2.00E+01	
Youth2	0.00E+00	6.35E+01	8.87E-01	1.25E-04	
Youth1	0.00E+00	5.89E+01	1.04E+00	1.25E-04	
Child2	0.00E+00	4.67E+01	1.47E+00	1.25E-04	
Child1	0.00E+00	3.92E+01	2.11E+00	1.25E-04	
Infant2	0.00E+00	3.27E+01	2.60E+00	1.25E-04	
Infant1	0.00E+00	2.15E+01	2.76E+00	1.25E-04	

Time to background concentration- chronic (hr):

Acute Inhalation Results:

Receptor	Background ADR (mg/kg/d)	Peak Dose (mg/day)	ADR (mg/kg/d)	Peak Conc. (mg/m3)
Adult	0.00E+00	5.24E+02	6.55E+00	2.81E+03
Youth2	0.00E+00	9.26E+01	1.29E+00	6.83E+01
Youth1	0.00E+00	8.58E+01	1.51E+00	6.83E+01
Child2	0.00E+00	6.81E+01	2.14E+00	6.83E+01
Child1	0.00E+00	5.72E+01	3.07E+00	6.83E+01
Infant2	0.00E+00	4.77E+01	3.78E+00	6.83E+01
Infant1	0.00E+00	3.13E+01	4.01E+00	6.83E+01

Time to background concentration- acute (hr):

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Septic Cleaner (o-DCB): Ingestion Results

Chronic Ingestion Results:

Receptor	Chronic ADD (mg/kg/d)
Adult	0.00E+00
Youth2	0.00E+00
Youth1	0.00E+00
Child2	0.00E+00
Child1	0.00E+00
Infant2	0.00E+00
Infant1	0.00E+00

Acute Ingestion Results:

Receptor	ADR (mg/kg/d)
Adult	0.00E+00
Youth2	0.00E+00
Youth1	0.00E+00
Child2	0.00E+00
Child1	0.00E+00
Infant2	0.00E+00
Infant1	0.00E+00

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Septic Cleaner (o-DCB): Dermal Results

Chronic Dermal Results:

Receptor	Applied to Skin Chronic ADD (mg/kg/d)	Skin Contact Chronic ADD (mg/kg/d)	Vapor to Skin Chronic ADD (mg/kg/d)	Total Chronic Dermal ADD (mg/kg/d)
Adult	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Youth2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Youth1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Child2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Child1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Infant2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Infant1	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Acute Dermal Results:

Receptor	Applied to Skin ADR (mg/kg/d)	Skin Contact ADR (mg/kg/d)	Vapor to Skin ADR (mg/kg/d)	Total Acute Dermal ADR (mg/kg/d)
Adult	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Youth2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Youth1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Child2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Child1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Infant2	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Infant1	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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CEM Scenario Summary

Scenario Name and Definition

Scenario: Septic Cleaner (o-DCB)

Chemical: o-DCB

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Use Environment: Residence - Bathroom

Scenario Description/notes:

Models

Models for the Selected Product or Article:	VOC	E1: Emission from Product Applied to a Surface Indoors Incremental Source Model
		P_INH1: Calculation of Inhalation Dose from Product Usage
		P_INH2: Calculation of Inhalation Dose from Product Usage: Near-field Option
	SVOC/VOC	P_DER2a: Dermal Dose from Product Applied to Skin, Fraction Absorbed Model
	SVOC/VOC	P_DER2b: Dermal Dose from Product Applied to Skin, Permeability Model

Additional Product Options

Product Users: ☒ Adult ☐ Youth ☐ Child

Activity Pattern: ☒ SAH ☐ Part-time ☐ Full-time

Use a User Defined Emission Rate? ☒ Let CEM Define Emission Rate ☐ Use a User-Defined Emission Rate

Dermal Absorption or Permeability? ☐ Absorption Fraction Method ☐ Permeability Method

Use Near Field Zone? ☒ Do Not Use Near Field in Zone 1 ☐ Use Near Field in Zone 1

Inputs

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Location	Required Input	Value
1. Scenario	Background Air Concentration (mg/m3)	0.00E+00
1. Scenario	Weight Fraction of Chemical (-)	9.90E-01
2. Inputs; a. Chemical Properties	Molecular Weight (g/mol)	1.47E+02
2. Inputs; a. Chemical Properties	Saturation Concentration in Air (mg/m3)	1.07E+04
2. Inputs; a. Chemical Properties	Vapor Pressure (torr)	1.35E+00
2. Inputs; b. Product/Article Properties	Duration of Use - Acute (min)	5.00E+00
2. Inputs; b. Product/Article Properties	Duration of Use - Chronic (min)	5.00E+00
2. Inputs; b. Product/Article Properties	Frequency of Use - Acute (events/day)	1.00E+00
2. Inputs; b. Product/Article Properties	Frequency of Use - Chronic (events/year)	2.50E+02
2. Inputs; b. Product/Article Properties	Mass of product used - acute (g/use)	5.87E+02
2. Inputs; b. Product/Article Properties	Mass of product used - chronic (g/use)	5.87E+02
2. Inputs; c. Environment Inputs	Air Exchange Rate, Zone 1 (per hour)	4.50E-01
2. Inputs; c. Environment Inputs	Air Exchange Rate, Zone 2 (per hour)	4.50E-01
2. Inputs; c. Environment Inputs	Building Volume (m3)	4.92E+02
2. Inputs; c. Environment Inputs	Interzone Ventilation Rate (m3/hr)	7.25E+01
2. Inputs; c. Environment Inputs	Use Environment Volume (m3)	1.50E+01

Exposure Factors

Receptor	Body Weight	Inhalation After Use	Inhalation During Use	Surface Area to Body Weight
Adult (≥21 years)	80	0.61	0.74	
Youth (16-20 years)	71.6	0.68	0.72	
Youth (11-15 years)	56.8	0.63	0.78	
Child (6-10 years)	31.8	0.5	0.66	
Small Child (3-5 years)	18.6	0.42	0.66	
Infant (1-2 years)	12.6	0.35	0.72	
Infant (<1 year)	7.8	0.23	0.46	

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Notes: body weight = kg; dust ingestion rate = mg/day; inhalation rate after use = m3/hr; inhalation rate during use = m3/hr; surface area to body weight ratio = m2/kg; transfer coefficient = cm2/hr

Receptor	Exposure Duration - Chronic	Exposure Duration - Acute	Avg Time - Chronic	Avg Time - Acute
Adult (≥21 years)	1	1	1	1
Youth (16-20 years)	1	1	1	1
Youth (11-15 years)	1	1	1	1
Child (6-10 years)	1	1	1	1
Small Child (3-5 years)	1	1	1	1
Infant (1-2 years)	1	1	1	1
Infant (<1 year)	1	1	1	1

Notes: averaging time - chronic = years; averaging time - acute = days; exposure duration - chronic = years; averaging time - acute = days