**K.A.R. 28-19-201 GENERAL PROVISIONS; DEFINITIONS; REGULATED COMPOUNDS LIST**

28-19-201. General provisions; definitions; regulated compounds list. As used in this regulation, “CAS Number” means chemical abstract service number. (a) “Hazardous air pollutant” means one or more of the following chemical pollutants:

| CAS Number | Chemical name |
|---|---|
| 75070 | Acetaldehyde |
| 60355 | Acetamide |
| 75058 | Acetonitrile |
| 98862 | Acetophenone |
| 53963 | 2-Acetylaminofluorene |
| 107028 | Acrolein |
| 79061 | Acrylamide |
| 79107 | Acrylic acid |
| 107131 | Acrylonitrile |
| 107051 | Allyl chloride |
| 92671 | 4-Amino biphenyl |
| 62533 | Aniline |
| 90040 | o-Anisidine |
| 1332214 | Asbestos |
| 71432 | Benzene (including benzene from gasoline) |
| 92875 | Benzidine |
| 98077 | Benzotrichloride |
| 100447 | Benzyl chloride |
| 92524 | Biphenyl |
| 117817 | Bis(2-ethylhexyl)phthalate (DEHP) |
| 542881 | Bis(chloromethyl) ether |
| 75252 | Bromoform |
| 106990 | 1,3-Butadiene |
| 156627 | Calcium cyanamide |
| 133062 | Captan |
| 63252 | Carbaryl |
| 75150 | Carbon disulfide |
| 56235 | Carbon tetrachloride |
| 463581 | Carbonyl sulfide |
| 120809 | Catechol |
| 133904 | Chloramben |
| 57749 | Chlordane |
| 7782505 | Chlorine |
| 79118 | Chloroacetic acid |
| 532274 | 2-Chloroacetophenone |
| 108907 | Chlorobenzene |
| 510156 | Chlorobenzilate |
| 67663 | Chloroform |
| 107302 | Chloromethyl methyl ether |
| 126998 | Chloroprene |

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|---|---|
| 1319773 | Cresols/Cresylic acid (isomers and mixture) |
| 95487 | o-Cresol |
| 108394 | m-Cresol |
| 106445 | p-Cresol |
| 98828 | Cumene |
| 94757 | 2,4-D, salts and esters |
| 3547044 | DDE |
| 334883 | Diazomethane |
| 132649 | Dibenzofurans |
| 96128 | 1,2-Dibromo-3-chloropropane |
| 84742 | Dibutylphthalate |
| 106467 | 1 ,4-Dichlorobenzene(p) |
| 91941 | 3,3-Dichlorobenzidene |
| 111444 | Dichloroethylether (Bis(2-chlorethyl)ether) |
| 542756 | 1,3-Dichloropropene |
| 62737 | Dichlorvos |
| 111422 | Diethanolamine |
| 121697 | N, N-Diethyl aniline (N,N-Dimethylaniline) |
| 64675 | Diethyl sulfate |
| 119904 | 3,3-Dimethoxybenzidine |
| 60117 | Dimethyl aminoazobenzene |
| 119937 | 3,3-Dimethyl benzidine |
| 79447 | Dimethyl carbamoylchloride |
| 68122 | Dimethyl formamide |
| 57147 | 1,1-Dimethyl hydrazine |
| 131113 | Dimethyl phthalate |
| 77781 | Dimethyl sulfate |
| 534521 | 4,6-Dinitro-o-cresol, and salts |
| 51285 | 2,4-Dinotrophenol |
| 121142 | 2,4-Dinitrotoluene |
| 123911 | 1,4-Dioxane (1,4-Diethylene oxide) |
| 122667 | 1,2-Diphenylhydrazine |
| 106898 | Epichlorohydrin (1-Chloro-2,3-epoxypropane) |
| 106887 | 1,2-Epoxybutane |
| 140885 | Ethyl acrylate |
| 100414 | Ethyl benzene |
| 51796 | Ethyl carbamate (Urethane) |
| 75003 | Ethyl chloride (Chloroethane) |
| 106934 | Ethylene dibromide (Dibromoethane) |
| 107062 | Ethylene dichloride (1,2-Dichloroethane) |
| 107211 | Ethylene glycol |
| 151564 | Ethylene imine (Aziridine) |
| 75218 | Ethylene oxide |
| 96457 | Ethylene thiourea |
| 75343 | Ethylidene dichloride (1,1-Dichloroethane) |
| 50000 | Formaldehyde |
| 76448 | Heptachlor |

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|---|---|
| 118741 | Hexachlorobenzene |
| 87683 | Hexachlorobutadiene |
| 77474 | Hexachlorocyclopentadiene |
| 67721 | Hexachloroethane |
| 822060 | Hexamethylene-1,6-diisocyanate |
| 680319 | Hexamethylphosphoramide |
| 110543 | Hexane |
| 302012 | Hydrazine |
| 7647010 | Hydrochloric acid |
| 7664393 | Hydrogen fluoride (Hydrofluoric acid) |
| 123319 | Hydroquinone |
| 78591 | Isophorone |
| 58899 | Lindane (all isomers) |
| 108316 | Maleic anhydride |
| 67561 | Methanol |
| 72435 | Methoxychlor |
| 74839 | Methyl bromide (Bromomethane) |
| 74873 | Methyl chloride (Chloromethane) |
| 71556 | Methyl chloroform (1,1,1-Trichloroethane) |
| 78933 | Methyl ethyl ketone (2-Butanone) |
| 60344 | Methyl hydrazine |
| 74884 | Methyl iodide (Iodomethane) |
| 108101 | Methyl isobutyl ketone (Hexone) |
| 624839 | Methyl isocyanate |
| 80626 | Methyl methacrylate |
| 1634044 | Methyl tert butyl ether |
| 101144 | 4,4-Methylene bis(2-chloroaniline) |
| 75092 | Methylene chloride (Dichloromethane) |
| 101688 | Methylene diphenyl diisocyanate (MDI) |
| 101779 | 4,4-Methylenedianiline |
| 91203 | Naphthalene |
| 98953 | Nitrobenzene |
| 92933 | 4-Nitrobiphenyl |
| 100027 | 4-Nitrophenol |
| 79469 | 2-Nitropropane |
| 684935 | N-Nitroso-N-methylurea |
| 62759 | N -Nitrosodimethylamine |
| 59892 | N-Nitrosomorpholine |
| 56382 | Parathion |
| 82688 | Pentachloronitrobenzene (Quintobenzene) |
| 87865 | Pentachlorophenol |
| 108952 | Phenol |
| 106503 | p-Phenylenediamine |
| 75445 | Phosgene |
| 7803512 | Phosphine |
| 7723140 | Phosphorus |
| 85449 | Phthalic anhydride |

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|---|---|
| 1336363 | Polychlorinated biphenyls (Aroclors) |
| 1120714 | 1,3-Propane sultone |
| 57578 | beta-Propiolactone |
| 123386 | Propionaldehyde |
| 114261 | Propoxur (Baygon) |
| 78875 | Propylene dichloride (1,2-Dichloropropane) |
| 75569 | Propylene oxide |
| 75558 | 1,2-Propylenimine (2-Methyl aziridine) |
| 91225 | Quinoline |
| 106514 | Quinone |
| 100425 | Styrene |
| 96093 | Styrene oxide |
| 1746016 | 2,3,7,8-Tetrachlorodibenzo-p-dioxin |
| 79345 | 1,1 ,2,2-Tetrachloroethane |
| 127184 | Tetrachloroethylene (Perchloroethylene) |
| 7550450 | Titanium tetrachloride |
| 108883 | Toluene |
| 95807 | 2,4-Toluene diamine |
| 584849 | 2,4-Toluene diisocyanate |
| 95534 | o-Toluidine |
| 8001352 | Toxaphene (chlorinated camphene) |
| 120821 | 1,2,4-Trichlorobenzene |
| 79005 | 1,1,2-Trichloroethane |
| 79016 | Trichloroethylene |
| 95954 | 2,4,5-Trichlorophenol |
| 88062 | 2,4, 6-Trichlorophenol |
| 121448 | Triethylamine |
| 1582098 | Trifluralin |
| 580841 | 2,2,4-Trimethylpentane |
| 108054 | Vinyl acetate |
| 593602 | Vinyl bromide |
| 75014 | Vinyl chloride |
| 75354 | Vinylidene chloride (1,1-Dichloroethylene) |
| 1330207 | Xylenes (isomers and mixture) |
| 95476 | o-Xylenes |
| 108383 | m-Xylenes |
| 106423 | p-Xylenes |
| 0 | Antimony Compounds |
| 0 | Arsenic Compounds (inorganic, including arsine) |
| 0 | Beryllium Compounds |
| 0 | Cadmium Compounds |
| 0 | Chromium Compounds |
| 0 | Cobalt Compounds |
| 0 | Coke Oven Emissions |
| 0 | Cyanide Compounds [1] |
| 0 | Glycol ethers [2] |

0 Lead Compounds
0 Manganese Compounds
0 Mercury Compounds
0 Fine mineral fibers [3]
0 Nickel Compounds
0 Polycylic Organic Matter [4]
0 Radionuclides (including radon) [5]
0 Selenium Compounds

NOTE: For all listings above that contain the word “compounds” and for glycol ethers, the following applies: Unless otherwise specified, these listings are defined as including any unique chemical substance that contains the named chemical as part of that chemical's infrastructure.

[1] X'CN where X = H' or any other group where a formal dissociation may occur, for example, KCN or $Ca(CN)_2$.

[2] Includes mono- and di-ethers of ethylene glycol, diethylene glycol, and triethylene glycol $R\text{-}(OCH_2CH_2)_n\text{-}OR'$ where n = 1, 2, or 3

R = alkyl or aryl groups

R' = R, H, or groups that, when removed, yield glycol ethers with the structure: $R\text{-}(OCH_2CH)_n\text{-}OH$. Polymers are excluded from the glycol category.

[3] Includes mineral fiber emissions from facilities manufacturing or processing glass, rock, or slag fibers (or other mineral-derived fibers) of average diameter 1 micrometer or less.

[4] Includes organic compounds with more than one benzene ring, and that have a boiling point greater than or equal to 100°C.

[5] A type of atom that spontaneously undergoes radioactive decay.

(b) “Volatile organic compounds (VOC)” means any compound of carbon, excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate, that participates in atmospheric photochemical reactions including any organic compound other than those that have been designated by the department as having negligible photochemical reactivity. For purposes of programs and plans implementing the national ambient air quality standards for ozone only, the following organic compounds have been designated by the

department as having negligible photochemical reactivity:

(1) methane;
(2) ethane;
(3) 1,1,1-trichloroethane (methyl chloroform);
(4) methylene chloride;
(5) trichlorofluoromethane (CFC-11);
(6) dichloro-difluoromethane (CFC-12);
(7) chlorodifluoromethane (CFC-22);
(8) trifluoromethane (CFC-23);
(9) trichlorotrifluoroethane (CFC-113);
(10) dichlorotetrafluoroethane (CFC-114);
(11) chloropentafluoroethane (CFC-115);
(12) dichlorotrifluoroethane (HCFC-123);
(13) tetrafluoroethane (HCFC-134a);
(14) dichlorofluoroethane (HCFC-141b);
(15) chlorodifluoroethane (HCFC-142b);
(16) chlorotetrafluoroethane (HCFC-124);
(17) pentafluoroethene (HCFC-125);
(18) tetrafluroroethane (HCFC-134);
(19) trifluoroethane (HCFC-143a);
(20) difluoroethane (HCFC-152a);
(21) parachlorobenzotrifluoride (PCBTF);
(22) cyclic, branched, or linear, completely methylated siloxanes;
(23) acetone;
(24) The following classes of perfluorcarbon compounds:
(A) cyclic, branched, or linear, completely fluorinated alkanes;
(B) cyclic, branched, or linear, completely fluorinated ethers with no unsaturations;
(C) cyclic, branched, or linear, completely fluorinated tertiary amines with no unsaturation;
(D) sulfur-containing perfluorocarbons with no unsaturations and with sulfur bonds only to carbon and fluorine;
(25) perchloroethylene~~.~~;
(26) difluoromethane (HFC-32);
(27) ethylfluoride (HFC-161);
(28) 1,1,1,3,3,3-hexafluoropropane (HFC-236fa);
(29) 1,1,2,2,3-pentafluoropropane (HFC-245ca);
(30) 1,1,2,3,3-pentafluoropropane (HFC-245ea);
(31) 1,1,1,2,3-pentafluoropropane (HFC-245eb);
(32) 1,1,1,3,3-pentafluoropropane (HFC-245fa);
(33) 1,1,1,2,3,3-hexafluoropropane (HFC-236ea);
(34) 1,1,1,3,3-pentafluorobutane (HFC-365mfc);
(35) chlorofluoromethane (HCFC-31);
(36) 1,2-dichloro-1,1,2-trifluoroethane (HCFC-123a);

(37) 1-chloro-1-fluoroethane (HCFC-151a);

(38) 1,1,1,2,2,3,3,4,4-nonafluoro-4-methoxybutane ($C_4F_9OCH_3$);

(39) 2-(difluoromethoxymethyl)-1,1,1,2,3,3,3-heptafluoropropane ($(CF_3)_2CFCF_2OCH_3$);

(40) 1-ethoxy-1,1,2,2,3,3,4,4,4-nonafluorobutane ($C_4F_9OC_2H_5$);

(41) 2-(ethoxydifluoromethyl)-1,1,1,2,3,3,3-heptafluoropropane ($(CF_3)_2CFCF_2OC_2H_5$)

(42) decafluoropentane (HFC-43-10mee)

(43) 3,3-dichloro-1,1,1,2,2-pentafluoropropane (HFC-225ca);

(44) 1,3-dichloro-1,1,2,2,3-pentafluoropropane (HFC-225cb); and

(45) methyl acetate (HFC 43-10mee). (Authorized by and implementing K.S.A. 1997 Supp. 65-3005; effective Oct. 10, 1997; amended Feb. 12, 1999.)

## K.A.R. 28-19-201

EPA Rulemakings

CFR: 40 C.F.R. 52.870(c)

FRM: 65 FR 1545 (1/11/00)

PRM: 65 FR 1583 (1/11/00)

State Submission: 5/3/99

State Proposal: 7/16/97

State Effective Date: 9/25/97

APDB File: KS-54

Description: This rule contains the Federal lists of volatile organic compounds and hazardous air pollutants that were previously contained in the now revoked K.A.R. 28-19-7.

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Difference Between the State and EPA-Approved Regulation

None.