1301:7-9-03 REPORTING REQUIREMENTS FOR HAZARDOUS SUBSTANCES AND LIST OF HAZARDOUS SUBSTANCES.

A) Purpose.

For the purpose of prescribing rules pursuant to section 3737.88 of the Revised Code, the fire marshal hereby adopts this rule to establish reporting requirements for underground storage tank systems that contain hazardous substance(s) and to list those substances which are hereby identified as hazardous substances. This rule is adopted by the fire marshal in accordance with Chapter 119. of the Revised Code and shall not be considered a part of the "Ohio Fire Code". The following UST systems are exempted from this rule:

(1) Any UST system holding hazardous wastes listed or identified under Chapter 3745-51 of the Administrative Code, or a mixture of such hazardous waste and other regulated substances;

(2) Any wastewater treatment tank system that is part of a wastewater treatment facility regulated under section 402 or 307(B) of the Federal Water Pollution Control Act (33 U.S.C.A. 1251 and following);

(3) Equipment or machinery that contains regulated substances for operational purposes such as hydraulic lift tanks and electrical equipment tanks;

(4) Any UST system whose capacity is one hundred ten gallons or less;

(5) Any UST system that contains a *de minimis* concentration of regulated substances;

(6) Any emergency spill or overflow containment UST system that is expeditiously emptied after use;

(7) Wastewater treatment tank systems;

(8) Any UST system containing radioactive material that are regulated under the Atomic Energy Act of 1954 (42 U.S.C.A. 2011 and following);

(9) Any UST system that is part of an emergency generator system at nuclear power generation facilities regulated by United States nuclear regulatory commission;

(10) Airport hydrant fuel distribution systems; and

(11) UST systems with field-constructed tanks.

(B) Definitions.

For the purpose of this rule:

(1) "Release of a hazardous substance" means:

(a) Any spilling, leaking, emitting, discharging, escaping, leaching or disposing of a hazardous substance(s) from an underground storage tank system into the ground water, a surface water body, subsurface soils or otherwise into the environment;

(b) Any spilling, leaking, emitting, discharging, escaping, or disposing of a hazardous substance(s) into ground water, a surface water body, subsurface soils or otherwise into the environment while transferring or attempting to transfer a hazardous substance(s) into an underground storage tank system; or

(c) Contamination of subsurface soils or ground water on the UST site by a hazardous substance(s) found and confirmed through laboratory analysis of samples from the UST site.

(2) "Suspected release of a hazardous substance" means evidence of a release of a hazardous substance(s) obtained through one or more of the following events:

(a) The monitoring results from a release detection method required by Rule 1301:7-9-07 of the Administrative Code that a release of a hazardous substance(s) may have occurred unless:

(i) The monitoring device is found to be defective, and is immediately recalibrated or replaced, and additional monitoring does not confirm the initial result; or

(ii) In the case of inventory control, a second month of data does not confirm the initial result;

(b) Unusual operating conditions observed by the owners and operators unless system equipment is found to be defective but not leaking, and is immediately repaired or replaced. Such unusual operating conditions shall include, without limitation, the erratic behavior of hazardous substance(s) dispensing equipment, the sudden loss of hazardous substance(s) from the UST system or an unexplained presence of water in the tank.

(c) The presence of free hazardous substance(s) discovered during removal of an UST system or part thereof or in an excavation on the UST site or on property nearby the UST site;

(d) The discovery of hazardous substance(s) vapors within or along building foundations or other subsurface manmade structures such as building foundations, basements, pedestrian tunnels, utility vaults, sewer lines, or the like, or in a drinking water well located on the UST site or on property nearby the UST site;

(e) The presence of free hazardous substance(s) in a monitoring or an observation well located on the UST site or on property nearby the UST site; or

(f) The presence of hazardous substance(s) observed on a surface water body located on the UST site or on property nearby the UST site suspected to have arisen from a release from an UST system.

(3) "UST site" means the parcel of property where an UST system is or had been located.

(C) Reporting of releases of a hazardous substance and suspected releases of a hazardous substance.

(1) Owners and operators shall report a release of a hazardous substance or suspected release of a hazardous substance to the fire marshal and the local fire department within twenty-four hours of discovery by the owner or operator. Spills or overfills of twenty-five gallons or less that do not reach a surface water body and that are cleaned up within twenty-four hours need not be reported.

(2) Complying with paragraph (C)(1) of this rule does not relieve the owners and operators from complying with any other applicable federal, state, or local reporting requirements, laws, or regulations.

(D) The substances listed in the following table are hazardous substances except that any listed substance regulated as a hazardous waste under Chapters 3745-50 to 3745-69 of the Administrative Code shall not be considered a hazardous substance for the purposes of this chapter. The numbers to the right of the substances are the Chemical Abstracts Service Registry Numbers for the substances.

Acenaphthene	83329
Acenaphthylene	208968
Acetaldehyde	75070
Acetaldehyde, chloro	107200
Acetaldehyde, trichloro	75876
Acetamide, N-(aminothioxomethyl)-	591082
Acetamide, N-(4-ethoxyphenyl)-	62442
Acetamide, N-9H-fluoren-2-yl-	53963
Acetamide, 2-fluoro-	640197
Acetic acid	64197
Acetic acid, ethyl ester	141786
Acetic acid, fluoro-, sodium salt	62748
Acetic acid, lead salt	301042
Acetic acid, thalium(l) salt	563688
Acetic anhydride	108247
Acetimidic acid, N-(methylcarbomoyl) oxy] thio, methyl ester	16752775
Acetone	67641
Acetone cyanohydrin	75865
Acetonitrile	75058
3-(alpha-Acetonylbenzyl)-4-hydroxycoumarin and salts	81812
Acetophenone	98862
2-Acetylaminofluorene	53963
Acetyl bromide	506967
Acetyl chloride	75365
1-Acetyl-2-thiourea	591082
Acrolein	107028
Acrylamide	79061
Acrylic acid	79107
Acrylonitrile	107131
Adipic acid	124049
Alanine, 3-[p-bis(2-chloroethyl)amino] phenyl-,L-	148823
Aldicarb	116063
Aldrin	309002
Allyl alcohol	107186
Allyl chloride	107051
Aluminum phosphide	20859738
Aluminum sulfate	10043013
5-(Aminomethyl)-3-isoxazolol	2763964
4-Aminopyridine	504245
Amitrole	61825
Ammonia	7664417
Ammonium acetate	631618
Ammonium benzoate	1863631
Ammonium bicarbonate	1066337
Ammonium bichromate	7789095
Ammonium biflouride	1341497
Ammonium bisulfite	10192300
Ammonium carbamate	1111780
Ammonium carbonate	506876
Ammonium chloride	12125029
Ammonium chromate	7788989
Ammonium citrate, dibasic	3012655
Ammonium fluoborate	13826830
Ammonium fluoride	12125018
Ammonium hydroxide	1336216
Ammonium oxalate	6009707
	5972736
	14258492
Ammonium picrate	131748
Ammonium silcofluoride	16919190
Ammonium sulfamate	7773060
Ammonium sulfide	12135761
Ammonium sulfite	10196040
Ammonium tartrate	14307438
	3164292
Ammonium thiocyanate	1762954
Ammonium thiosulfate	7783188
Ammonium vanadate	7803556
Amyl acetate	628637
iso-	123922
sec-	626380
tert-	625161
Aniline	62533
Anthracene	120127
Antimony **	7440360
ANTIMONY & COMPOUNDS	
Antimony pentachloride	7647189
Antimony potassium tartrate	28300745
Antimony tribromide	7789619
Antimony trichloride	10025919
Antimony trifluoride	7783564
Antimony trioxide	1309644
Aroclor 1016	12674112
Aroclor 1221	11104282
Aroclor 1232	11141165
Aroclor 1242	53469219
Aroclor 1248	12672296
Aroclor 1254	11097691
Aroclor 1260	11096825
Arsenic **	7440382
Arsenic acid	1327522
	7778394

ARSENIC & COMPOUNDS	
Arsenic disulfide	1303328
Arsenic (III) oxide	1327533
Arsenic (V) oxide	1303282
Arsenic pentoxide	1303282
Arsenic trichloride	7784341
Arsenic trioxide	1327533
Arsenic trisulfide	1303339
Arsine, diethyl-	692422
Asbestos ***	1332214
Auramine	492808
Azaserine	115026
Aziridine	151564
Azirino (2',3':3,4) pyrrolo(1,2-a)indole-4,7-dione,6-amino-8-[((aminocarbonyl) oxy)methyl]-1,1a,2,8,8a,8b-hexahydro-8a-methoxy-5-methyl-	50077
Barium cyanide	542621
Benz(j)aceanthrylene, 1,2 dihydro-3-methyl	56495
Benz(c)acridine	225514
3,4-Benzacridine	225514
Benzal chloride	98873
Benz(a)anthracene	56553
1,2-Benzanthracene	56553
1,2-Benzanthracene, 7,12-dimethyl-	57976
Benzenamine	62533
Benzenamine, 4,4'-carbonimidoylbis(N,N-dimethyl-	492808
Benzenamine, 4-chloro-	106478
Benzenamine, 4-chloro-2-methyl-hydrochloride	3165933
Benzenamine, N,N-dimethyl-4-phenylazo	60117
Benzenamine, 4,4'-methyl-enebis(2-chloro-)	101144
Benzenamine, 2-methyl-, hydrochloride	636215
Benzenamine, 2-methyl-5-nitro-	99558
Benzenamine, 4-nitro-	100016
Benzene	71432
Benzene, 1-bromo-4-phenoxy-	101553
Benzene chloro-	108907
Benzene, chloromethyl-	100447
Benzene, 1,2-dichloro-	95501
Benzene, 1,3-dichloro-	541731
Benzene, 1,4-dichloro-	106467
Benzene, dichloromethyl-	98873
	1301:7-9-03
Benzene, 2,4-diisocyanatomethyl	584849
	91087
	26471625
Benzene, dimethyl	1330207
m-	108383
o-	95476
p-	106423
Benzene, hexachloro-	118741
Benzene, hexahydro-	110827
Benzene, hydroxy-	108952
Benzene, methyl-	108883
Benzene, 1-methyl-2,4-dinitro-	121142
Benzene, 1-methyl-2,6-dinitro-	606202
Benzene, 1,2-methylenedioxy-4-allyl-	94597
Benzene, 1,2-methylenedioxy-4-propenyl-	120581
Benzene, 1,2-methylenedioxy-4-propyl-	94586
Benzene, 1-methylethyl-	98828
Benzene, nitro-	98953
Benzene, pentachloro-	608935
Benzene, pentachloronitro-	82688
Benzene, 1,2,4,5-tetrachloro-	95943
Benzene, trichloromethyl	98077
Benzene, 1,3,5-trinitro-	99354
Benzeneacetic acid, 4-chloro-alpha(4-chloro phenyl)-alpha-hydroxy-, ethyl ester	510156
1,2-Benzenedicarboxylic acid anhydride	85449
1,2-Benzenedicarboxylic acid,[bis(2-ethylexyl)] lester	1178617
1,2-Benzenedicarboxylic acid, dibutyl ester	84742
1,2-Benzenedicarboxylic acid, diethyl ester	84662
1,2 Benzenedicarboxylic acid, dimethyl ester	131113
1,2-Benzenedicarboxylic acid, di-n-octyl ester	117840
1,3-Benzenediol	108463
1,2-Benzenediol,4-[1-hydroxy-2-(methylamino)ethyl]	51434

Benzenesulfonic acid chloride	98099
Benzenesulfonyl chloride	98099
Benzenethiol	108985
Benzidine	12875
1,2-Benzisothiazolin-3-one,1,1-dioxide, and salts	81072
Benzo(a)anthracene	56553
Benzo(b)fluoranthene	205992
Benzo(k)fluoranthene	207089
Benzo(j,k)fluorene	206440
Benzoic acid	65050
Benzonitrile	100470
Benzo(ghi)perylene	191242
Benzo(a)pyrene	50328
3,4-Benzopyrene	50328
p-Benzoquinone	106514
Benzotrichloride	98077
Benzoyl chloride	98884
1,2-Benzphenanthrene	218019
Benzyl chloride	100447
Beryllium **	7440417
BERYLLIUM & COMPOUNDS	
Beryllium chloride	7787475
Beryllium dust	7440417
Beryllium fluoride	7787497
Beryllium nitrate	13597994
	7787555
alpha - BHC	319846
beta - BHC	319857
gamma - BHC	58899
delta - BHC	319868
2,2'-Bioxirane	1464535
(1,1'-Biphenyl)-4,4' diamine	92875
(1,1'-Biphenyl)-4,4' diamine, 3,3' dichloro-	91941
(1,1'-Bipheynl)-4,4' diamine, 3,3'- dimethoxy-	119904
(1,1'-Biphenyl)-4,4'- diamine, 3,3'- dimethyl-	119937
Bis(2-chloroethoxy) methane	111911
Bis(2-cloroethyl) ether	111444
Bis(2-chloroisopropyl) ether	108601
Bis(chloromethyl) ether	542881
Bis(dimethylthiocarbamoyl) disulfide	137268
Bis(2-ethylhexyl) phthalate	117817
Bromine cyanide	506683
Bromoacetone	598312
Bromoform	75252
4-Bromophenyl phenyl ether	101553
Brucine	357573
1,3-Butadiene, 1,1,2,3,4-hexachloro-1	87683
Butanamine, N-butyl-N-nitroso	924163
Butanoic acid, 4-[bis(2-chloroethyl)amino] benzene	305033
1-Butanol	71363
2-Butanone	78933
2-Butanone peroxide	1338234
2-Butenal	123739
	4170303
2-Butene, 1,4-dichloro-	764410
Butyl acetate	123864
iso-	110190
sec-	105464
tert-	540885
n-Butyl alcohol	71363
Butylamine	109739
iso-	78819
sec-	513495
sec-	13952846
tert-	75649
Butyl benzyl phthalate	85687
n-Butyl phthalate	84742
Butyric acid	107926
iso-	79312
Cacodylic acid	75605
Cadmium **	7440439
Cadmium acetate	543908
CADMIUM & COMPOUNDS	
Cadmium bromide	7789426
Cadmium chloride	10108642
Calcium arsenate	7778441
Calcium arsenite	52740166
Calcium carbide	75207
Calcium chromate	13765190
Calcium cyanide	592018
Calcium dodecylbenzene sulfonate	26264062
Calcium hypochlorite	7778543
Camphene, octachloro-	8001352
Captan	133062
Carbamic acid, ethyl ester	51793

Carbamic acid, methylnitroso, ethyl ester	615532
Carbamide, N-ethyl-N-nitroso-	759739
Carbamide, N-methyl-N-nitroso-	684935
Carbamide, thio-	62566
Carbamimidoselenoic acid	630104
Carbamoyl chloride, dimethyl-	79447
Carbaryl	63252
Carbofuran	1563662
Carbon bisulfide	75150
Carbon disulfide	75150
Carbonic acid, dithalium (I) salt	6533739
Carbonochloridic acid, methyl ester	79221
Carbon oxyfluoride	353504
Carbon tetrachloride	56235
Carbonyl chloride	75445
Carbonyl fluoride	353504
Chloral	75876
Chlorambucil	305033
CHLORDANE (TECHNICAL MIXTURE AND METABOLITES)	
Chlordane	57749
Chlordane, technical	57749
CHLORINATED BENZENES	
CHLORINATED ETHANES	
CHLORINATED NAPHTHALENE	
CHLORINATED PHENOLS	
Chlorine	7782505
Chlorine cyanide	506774
Chlornaphazine	494031
Chloroacetaldehyde	107200
CHLOROALKYL ETHERS	
p-Chloroaniline	106478
Chlorobenzene	108907
4-Chloro-m-cresol	50507
p-Chloro-m-cresol	59507
Chlorodibromomethane	124481
1-Chloro-2,3-epoxypropane	106898
Chloroethane	75003
2-Chloroethyl vinyl ether	110758
Chloroform	67663
Chloromethyl methyl ether	107302
beta-Chloronaphthalene	91587
2-Chloronaphthalene	91587
2-Chlorophenol	95578
o-Chlorophenol	95578
4-Chlorophenyl phenyl ether	70057232
1-(o-Chlorophenyl) thiourea	5344821
3-Chloropropionitrile	542767
Chlorosulfonic acid	7790945
4-Chloro-o-toluidine, hydrochloride	3165933
Chlorpyrifos	2921882
Chromic acetate	1066304
Chromic acid	11115745
	7738945
Chromic acid, calcium salt	13765190
Chromic sulfate	10101538
Chromium **	7440473
CHROMIUM AND COMPOUNDS	
Chromous chloride	10049055
Chrysene	218019
Cobaltous bromide	7789437
Cobaltous formate	544183
Cobaltous sulfamate	14017415
Coke Oven Emissions	N.A.
Copper**	7440508
COPPER AND COMPOUNDS	
Copper Cyanide	544923
Coumaphos	56724
Creosote	8001589
Cresol(s)	1319773
m-	108394
o-	95487
p-	106445
Cresylic acid	1319773
m-	108394
o-	95487
p-	106445
Crotonaldehyde	123739
	4170303
Cumene	98828
Cupric acetate	142712
Cupric acetoarsenite	12002038
Cupric chloride	7447394
Cupric nitrate	3251238
Cupric oxalate	5893663
Cupric sulfate	7758987
Cupric sulfate ammoniated	10380297

Cupric tartrate	815827
CYANIDES	
Cyanides (soluble cyanide salts), not elsewhere specified	57125
Cyanogen	460195
Cyanogen bromide	506683
Cyanogen chloride	506774
1,4-Cyclohexadienedione	106514
Cyclohexane	110827
Cyclohexanone	108941
1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-	77474
Cyclophosphamide	50180
2,4-D Acid	94757
2,4-D Esters	94111
	94791
	94804
	1320189
	1928387
	1928616
	1929733
	2971382
	25168267
	53467111
2,4-D, salts and esters	94757
Daunomycin	20830813
DDD	72548
4,4'DDD	72548
DDE	72559
4,4'DDE	72559
DDT	50293
4,4'DDT	50293
DDT AND METABOLITES	
Decachloroctahydro-1,3,4-metheno-2H-cyclobuta[c,d]-pentalen-2-one	143500
Diallate	2303164
Diamine	302012
Diaminotoluene	95807
	25376458
	496720
	823405
Diazinon	5333415
Dibenz[a,h]anthracene	53703
1,2:5,6-Dibenzanthracene	53703
Dibenzo[a,h]anthracene	53703
1,2:7,8-Dibenzopyrene	189559
Dibenz[a,i]pyrene	189559
1,2-Dibromo-3-chloropropane	96128
Dibutyl phthalate	84742
Di-n-butyl phthalate	84742
Dicamba	1918009
Dichlobenil	1194656
Dichlone	117806
S-(2,3-Dichloroallyl) diisopropyl-thiocarbamate	2303164
3,5-Dichloro-N-(1,1-dimethyl-2-propynyl) benzamide	23950585
Dichlorobenzene (mixed)	25321226
1,2-Dichlorobenzene	95501
1,3-Dichlorobenzene	541731
1,4-Dichlorobenzene	106467
m-Dichlorobenzene	541731
o-Dichlorobenzene	95501
p-Dichlorobenzene	106467
DICHLOROBENZIDINE	
3,3'-Dichlorobenzidine	91941
Dichlorobromomethane	75274
1,4-Dichloro-2-butene	764410
Dichlorodifluoromethane	75718
Dichlorodiphenyl dichloroethane	72548
Dichlorodiphenyl trichloroethane	50293
1,1-Dichloroethane	75343
1,2-Dichloroethane	107062
1,1-Dichloroethylene	75354
1,2-trans-Dichloroethylene	156605
Dichloroethyl ether	111444
2,4-Dichlorophenol	120832
2,6-Dichlorophenol	87650
2,4-Dichlorophenoxy -acetic acid, salts and esters	94757
Dichlorophenylarsine	696286
Dichloropropane	26638197
1,1-Dichloropropane	78999
1,3-Dichloropropane	142289
1,2-Dichloropropane	78875
Dichloropropane - Dichloropropene (mixture)	8003198
Dichloropropene	26952238
2,3-Dichloropropene	78886
1,3-Dichloropropene	542756

2,2-Dichloropropionic acid	75990
Dichlorvos	62737
Dieldrin	60571
1,2:3,4-Diepoxybutane	1464535
Diethylamine	109897
Diethylarsine	692422
1,4-Diethylene dioxide	123911
N,N-Diethylhydrazine	1615801
O,O-Diethyl S-[2-(ethylthio) ethyl] phosphrodithioate	298044
O,O Diethyl S-methyl dithiophosphate	3288582
Diethyl-p-nitrophenyl phosphate	311455
Ddiethyl phthalate	84662
O,O-Diethyl O-pyrazinyl phosphorothioate	297972
Diethylstilbestrol	56531
1,2-Dihydro-3,6-pyridazinedione	123331
Dihydrosafrole	94586
Diisopropyl fluorophosphate	55914
Dimethoate	60515
3,3-Dimethoxybenzidine	119904
Dimethylamine	124403
Dimethylaminoazobenzene	60117
7,12-Dimethylbenz(a) anthracene	59796
3,3-Dimethylbenzidine	119937
alpha, alpha-Dimethylbenzylhydro peroxide	81059
3,3-Dimethyl-1-(methylthio)-2-butanone, O-[(methylamino) carbonyl] oxime	39196184
Dimethylcarbamoyl chloride	79447
1,1-Dimethylhydrazine	57147
1,2-Dimethylhydrazine	540378
O,O-Dimethyl O-p-nitrophenyl phosphorothioate	298000
Dimethylnitrosamine	62759
alpha,alpha-Dimethyl phenethylamine	122098
2,4-Dimethylphenol	105679
Dimethyl phthalate	131113
Dimethyl sulfate	77781
Dinitrobenzene (mixed)	25154545
m-	99650
o-	528290
p-	100254
4,6-Dinitro-o-cresol and salts	534521
4,6-Dinitro-o-cyclohexylphenol	131895
Dinitrophenol	25550587
2,5-	329715
2,6-	573568
2,4-Dmitrophenol	51285
Dinitrotoluene	25321146
3,4-Dinitrotoluene	610399
2,4-Dinitrotoluene	121142
Dinoseb	88857
Di-n-octyl phthalate	117840
1,4-Dioxane	123911
DIPHENYLHYDRAZINE	
1,2-Diphenylhydrazine	122667
Diphosphoramide, octamethyl-	152169
Dipropylamine	142847
Di-n-propylnitrosamine	621647
Diquat	85007
	2764729
Disulfoton	298044
2,4-Dithiobiuret	541537
Dithiopyrophosphoric acid, tetraethyl ester	3689245
Diuron	330541
Dodecylbenzenesulfonic acid	27176870
Endosulfan	115297
alpha-Endosulfan	959988
beta-Endosulfan	33213659
ENDOSULFAN AND METABOLITES	
Ensodulfan sulfate	1031078
Endothall	145733
Endrin	72208
Endrin aldehyde	7421934
ENDRIN AND METABOLITES	
Epichlorohydrin	106898
Epinephrine	51434
Ethanal	75070
Ethanamine, 1,1-dimethyl-2-phenyl-	122098
Ethanamine, N-ethyl-N-nitroso-	55185
Ethane, 1,2-dibromo-	106934

Ethane, 1,1-dichloro-	75343
Ethane, 1,2-dichloro-	107062
Ethane, 1,1,1,2,2,2-hexachloro-	67721
Ethane, 1,1'-[methylenebis(oxy)] bis(2-chloro-	111911
Ethane, 1,1'-oxybis-	60297
Ethane, 1,1'-oxybis(2-chloro-	111444
Ethane, pentachloro-	76017
Ethane, 1,1,1,2-tetrachloro-	630206
Ethane, 1,1,2,2-tetrachloro-	79345
Ethane, 1,1,2-trichloro-	79005
Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)-	72435
1,2- Ethanediylbiscarbamodi thioic acid	111546
Ethanenitrile	75058
Ethanethioamide	62555
Ethanol, 2,2'-(nitrosoimino)bis-	1116547
Ethanone, 1-phenyl-	98862
Ethanoyl chloride	75365
Ethenamine, N-methyl-N-nitroso	4549400
Ethene, chloro-	75014
Ethene, 2-chloroethoxy	110758
Ethene, 1,1-dichloro-	75354
Ethene,1,1,2,2-tetrachloro-	127184
Ethene, trans-1,2-dichloro-	156605
Ethion	563122
Ethyl acetate	141786
Ethyl acrylate	140885
Ethylbenzene	100414
Ethyl carbamate(Urethan)	51796
Ethyl cyanide	107120
Ethyl 4,4'-dichlorobenzilate	510156
Ethylene dibromide	106934
Ethylene dichloride	107062
Ethylene oxide	75218
Ethylenebis(dithio carbamic acid)	111546
Ethylendiamine	107153
Ethylenediamine tetraacetic acid (EDTA)	60004
Ethylenethiourea	96457
Ethylenimine	151564
Ethyl ether	60297
Ethylidene dichloride	75343
Ethyl methacrylate	97632
Ethyl methanesulfonate	62500
Famphur	52857
Ferric ammonium citrate	1185575
Ferric ammonium oxalate	2944674
	55488874
Ferric chloride	7705080
Ferric dextran	9004664
Ferric fluoride	7783508
Ferric nitrate	10421484
Ferric sulfate	10028225
Ferrous ammonium sulfate	10045893
Ferrous chloride	7758943
Ferrous sulfate	7720787
	7782630
Fluoroacetic acid, sodium salt	62748
Fluoroanthene	206440
Fluorene	86737
Fluorine	7782414
Fluoroacetamide	640197
Formaldehyde	50000
Formic acid	64186
Fulminic acid, mercury(II)salt	628864
Fumaric acid	110178
Furan	110009
Furan, tetrahydro	109999
2-Furancarboxaldehyde	98011
2,5-Furandione	108316
Furfural	98011
Furfuran	110009
D-Glucopyranose, 2-deoxy-2-(3-methyl-3-nitrosoureido)-	18883664
Glycidylaldehyde	765344
Guanidine, N-nitroso-N-methyl-N'-nitro	70257
Guthion	86500
HALOETHERS	
HALOMETHANES	
Heptachlor	76448
HEPTACHLOR & METABOLITES	
Heptachlor epoxide	1024573
Hexachlorobenzene	118741
Hexachlorobutadiene	87683

HEXACHLOROCYCLOHEXANE (all isomers)	608731
Hexachlorocyclohexane (gamma isomer)	58899
Hexachlorocyclopentadiene	77474
1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo,endo-1,4:5,8-dimethanon aphthalene	72208
1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo,exo-1,4:5,8-dimethanonaphthalene	60571
Hexachloroethane	67721
Hexachlorohexahydro-endo,endo-dimethanonaphthalene	465736
1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,endo,endo-dimethanonaphthalene	465736
1,2,3,4,10-10-Hexachloro-1,4,4a,5,8,8a,-hexahydro-1,4:5,8-endo, exo,dimethanonaphthalene	309022
Hexachlorophene	70304
Hexachloropropene	1888717
Hexaethyl tetraphosphate	757584
Hydrazine	302012
Hydrazine, 1,2-diethyl-	1615801
Hydrazine, 1,1-dimethyl-	57147
Hydrazine, 1,2-dimethyl-	540738
Hydrazine, 1,2-diphenyl-	122667
Hydrazine, methyl-	60344
Hydrazinecarbothioamide	79196
Hydrochloric acid	7647010
Hydrocyanic acid	74908
Hydrofluoric acid	7664393
Hydrogen cyanide	74908
Hydrogen fluoride	7664393
Hydrogen phosphide	7803512
Hydrogen sulfide	7783064
Hydroperoxide, 1-methyl-1-phenylethyl	80159
Hydrosulfuric acid	7783064
Hydroxydimethylarsine oxide	75605
2-Imidazolidinethione	96457
Indeno(1,2,3-cd)pyrene	193395
Iron dextran	9004664
Isobutyl alcohol	78831
Isocyanic acid, methyl ester	624839
Isophorone	78591
Isoprene	78795
Isopropanolamine dodecylbenzenesulfonate	42504461
Isosafrole	120581
3(2H)-Isoxazolone, 5-(aminomethyl)-	2763964
Kelthane	115322
Kepone	143500
Lasiocarpine	303344
Lead**	7439921
Lead acetate	301042
LEAD AND COMPOUNDS	
Lead arsenate	7784409
	7645252
	10102484
Lead chloride	7758954
Lead fluoborate	13814965
Lead fluoride	7783462
Lead iodide	10101630
Lead nitrate	10099748
Lead phosphate	7446277
Lead stearate	7428480
	1072351
	56189094
	52652592
Lead subacetate	1335326
Lead sulfate	15739807
	7446142
Lead sulfide	1314870
Lead thiocyanate	592870
Lindane	58899
Lithium chromate	14307358
Malathion	121755
Maleic acid	110167
Maleic anhydride	108316
Maleic hydrazide	123331
Malononitrile	109773
Melphalan	148823
Mercaptodimethur	2032657
Mercuric cyanide	592041
Mercuric nitrate	10045940
Mercuric sulfate	7783359
Mercuric thiocyanate	592858
Mercurous nitrate	10415755
	7782867
Mercury	7439976

MERCURY AND COMPOUNDS	
Mercury, (acetato-O)phenyl-	62384
Mercury fulminate	628864
Methacrylonitrile	126987
Methanamine, N-Methyl-	124403
Methane, bromo-	74839
Methane, chloro-	74873
Methane, chloromethoxy-	107302
Methane, dibromo-	74953
Methane, dichloro-	95092
Methane, dichlorodifluoro-	75718
Methane, iodo-	74884
Methane, oxybis(chloro-	542881
Methane, tetrachloro-	56235
Methane, tetranitro-	509148
Methane, tribromo-	75252
Methane, trichloro-	67663
Methane, trichlorofluoro-	75694
Methanesulfonic acid, ethyl ester	62500
Methanethiol	74931
Methanesulfenyl chloride, trichloro-	594423
4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a, 3,7,7a-tetrahydro-	76448
Methanoic acid	64186
4,7-Methanoindan,1,2, 4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro-	57749
Methanol	67561
Methapyrilene	91805
Methomyl	16752775
Methoxychlor	72435
Methyl alcohol	67561
2-Methylaziridine	75558
Methyl bromide	74839
1-Methylbutadiene	504609
Methyl chloride	74873
Methyl chlorocarbonate	79221
Methyl chloroform	71556
4,4-Methylenebis(2-chloroaniline)	101144
2,2'-Methylenebis(3,4,6-trichlorophenol)	70304
3-Methylcholanthrene	56495
Methylene bromide	74953
Methylene chloride	75092
Methylene oxide	50000
Methyl ethyl ketone	78933
Methyl ethyl ketone peroxide	1338234
Methyl hydrazine	60344
Methyl iodide	74884
Methyl isobutyl ketone	108101
Methyl isocyanate	624839
2-Methyllactonitrile	75865
Methylmercaptan	74931
Methyl methacrylate	80626
N-Methyl-N'-nitro-N-nitrosoguanidine	70257
Methyl parathion	298000
4-Methyl-2-pentanone	108101
Methylthiouracil	56042
Mevinphos	7786347
Mexacarbate	315184
Mitomycin C	50077
Monoethylamine	75047
Monomethylamine	74895
Naled	300765
5,12-Naphthacenedione, (8S-cis)-8-acetyl-10-[3-amino-2,3,6-tride-oxy-alpha-l-lyxo-hexo-pyranosyl)oxy]-7,8,9, 10-tetrahydro-6,8,11-trihydroxy-1-methoxy-	20830813
Naphthalene, 2-chloro-	91203
Naphthalene, 2-chloro-	91587
1,4-Naphthalenedione	130154
2,7-Naphthalenedisulfonic acid,3,3'-[(3, 3'-dimethyl-(1,1' biphenyl)-4,4-diyl) -bis(azo)bis(5-amino -4-hydroxy)-tetra-sodium salt	72571
Naphthenic acid	1338245
1,4-Naphthoquinone	130154
1-Naphthylamine	134327
2-Naphthylamine	91598
alpha-Naphthylamine	134327
beta-Naphthylamine	91598
2-Naphthylamine, N,N-bis(2-chloroethyl)-	494031
alpha-Naphthylthathiourea	86884
Nickel**	7440020

NICKEL AND COMPOUNDS	
Nickel ammonium sulfate	15699180
Nickel carbonyl	13463393
Nickel chloride	7718549
	37211055
Nickel cyanide	557197
Nickel(II) cyanide	557197
Nickel hydroxide	12054487
Nickel nitrate	14216752
Nickel sulfate	7786814
Nickel tetracarbonyl	13463393
Nicotine and salts	54115
Nitric acid	7697372
Nitric oxide	10102439
p-Nitroaniline	100016
Nitrobenzene	98953
Nitrogen dioxide	10102440
	10544726
Nitrogen(II) oxide	10102439
Nitrogen(IV) oxide	10102440
	10544726
Nitroglycerine	55630
Nitrophenol (mixed)	25154556
m-	554847
o-	88755
p-	100027
p-Nitrophenol	100027
2-Nitrophenol	88755
4-Nitrophenol	100027
NITROPHENOLS	
2-Nitropropane	79469
NITROSAMINES	
N-Nitrosodi-n-butylamine	924163
N-Nitrosodiethanolamine	1116547
N-Nitrosodiethylamine	55185
N-Nitrosodimethylamine	62759
N-Nitrosodiphenylamine	86306
N-Nitrosodi-n-propylamine	621647
N-Nitroso-N-ethylurea	759739
N-Nitroso-N-methylurea	684935
N-Nitroso-N-methylurethane	615532
N-Nitrosomethylvinylamine	4549400
N-Nitrosopiperidine	100754
N-Nitrosopyrrolidine	930552
Nitrotoluene	1321126
m-	99081
o-	88722
p-	99990
5-Nitro-o-toluidine	99558
5-Norbornene-2,3-dimethanol,1,4,5,6,7,7-hexachloro, cyclic sulfite	115297
Octamethylpyrophosphor amide	152169
Osmium oxide	20816120
Osmium tetroxide	20816120
7-Oxabicyclo[2.2.1] Heptane-2,3-dicarboxylic acid	145733
1,2-Oxathiolane,2,2-dioxide	1120714
2h-1,3,2-Oxazaphosphorine,2-[bis(2-chloroethyl) amino] tetrahydro-2-oxide.	50180
Oxirane	75218
Oxirane, 2-(chloromethyl)	106898
Paraformaldehyde	30525894
Paraldehyde	123637
Parathion	56382
Pentachlorobenzene	608935
Pentachloroethane	76017
Pentachloronitrobenzene	82688
Pentachlorophenol	87865
1,3-Pentadiene	504609
Phenacetin	62442
Phenanthrene	85018
Phenol	108952
Phenol, 2-chloro-	95578
Phenol, 4-chloro-3-methyl-	59507
Phenol, 2-cyclohexyl-4,6-dinitro-	131895
Phenol, 2,4-dichloro-	120832
Phenol, 2,6-dichloro-	87650
Phenol, 2,4-dimethyl-	105679
Phenol, 2,4-dinitro-	51285
Phenol, 2,4-dinitro-6-(1-methylpropyl)	88857
Phenol, 2,4-dinitro-6-methyl-, and salts	534521
Phenol, 4-nitro-	100027
Phenol, pentachloro-	87865
Phenol, 2,3,4,6-tetrachloro-	58902
Phenol, 2,4,5-trichloro-	95954
Phenol, 2,4,6-trichloro-	88062

Phenol, 2,4,6-trinitro-, ammonium salt	131748
Phenyl dichloroarsine	696286
1,10-(1,2-Phenylene)pyrene	193395
Phenylmercuric acetate	62384
N-Phenylthiourea	103855
Phorate	298022
Phosgene	75445
Phosphine	7803512
Phosphoric acid	7664382
Phosphoric acid, diethyl p-nitrophenyl ester	311455
Phosphoric acid, lead salt	7446277
Phosphorodithioic acid, O,O-diethyl S-methyl ester	3288582
Phosphorodithioic acid, O,O-diethyl S-(ethylthio), methyl ester	298022
Phosphorodithioic acid, O,O-dimethyl S-[2 (methylamino)-2-oxoethyl] ester	60515
Phosphorofluoridic acid, bis(1-methylethyl) ester	55914
Phosphorothioic acid, O,O -diethyl O-(p-nitrophenyl) ester	56582
Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester	297972
phosphorothioic acid, O,O-dimethyl O-[p-[dimethylamino)-sulfonyl]phenyl]ester.	52857
Phosphorus	7723140
Phosphorus oxychloride	10025873
Phosphorus pentasulfide	1314803
Phosphorus sulfide	1314803
Phosphorus trichloride	7719122
PHTHALATE ESTERS	
Phthalic anhydride	85449
2-Picoline	109068
Plumbane, tetraethyl-	78002
POLYCHLORINATED BIPHENYLS (PCBs)	1336363 12674112 11104282 11141165 12672296 53469219 11097691 11096825
POLYNUCLEAR AROMATIC HYDROCARBONS	
Potassium arsenate	7784410
Potassium arsenite	10124502
Potassium bichromate	7778509
Potassium chromate	7789006
Potassium cyanide	151508
Potassium hydroxide	1310583
Potassium permanganate	7722647
Potassium silver cyanide	506616
Pronamide	23950585
1-Propanal, 2,3-epoxy-	765344
Propanal,2-methyl-2-(methylthio)-,O-[(methylamino) carbonyl]oxime	116063
1-Propanamine	107108
1-Propanamine, N-propyl-	142847
Propane, 1,2-dibromo-3-chloro-	96128
Propane, 2-nitro-	79469
Propane, 2,2-oxybis(2-chloro-	108601
1,3-Propane sultone	1120714
Propanedinitrile	109773
Propanenitrile	107120
Propanenitrile, 3-chloro-	542767
Propanenitrile, 2-hydroxy-2-methyl-	75865
1,2,3-Propanetriol, trinitrate-	55630
Propanol, 2,3-dibromo-,phosphate (3:1)	126727
1-Propanol, 2-methyl-	78831
2-Propanone	67641
2-Propanone, 1-bromo	598312
Propargite	2312358
Propargyl alcohol	107197
2-Propenal	107028
2-Propenamide	79061
Propene, 1,3-dichloro-	542756
1-Propene, 1,1,2,3,3,3-hexachloro-	1888717
2-Propenenitrile	107131
2-Propenenitrile, 2-methyl-	126987

2-Propenoic acid	79107
2-Propenoic acid, ethyl ester	140885
2-Propenoic acid, 2-methyl-, ethyl ester	97632
2-Propenoic acid, 2-methyl-, methyl ester	80626
2-Propen-1-ol	107186
Propionic acid	79094
Propionic acid, 2-(2,4,5-trichlorophenoxy)-	93721
Propionic anhydride	123626
n-Propylamine	107108
Propylene dichloride	78875
Propylene oxide	75569
1,2-Propylenimine	75558
2-Propyn-1-ol	107197
Pyrene	129000
Pyrethrins	121299
	121211
	8003347
4-Pyridinamine	504245
Pyridine	110861
Pyridine,2-[(2-(dimethylyamine)ethyl)-2-thenylamino]-	91805
Pyridine, hexahydro-N-nitroso-	100754
Pyridine,2-methyl-	109068
Pyridine,(S)-3-(1-methyl-2-pyrrolidinyl)-,and salts	54115
4(1H)-Pyrimidinone,2,3-dihydro-6-methyl-2-thioxo-	56042
Pyrophosphoric acid, tetraethyl ester	107493
Pyrrole, tetrahydro-n-nitroso-	930552
Quinoline	91225

RADIONUCLIDES

Reserpine	50555
Resorcinol	108463
Saccharin and salts	81072
Safrole	94597
Selenious acid	7783008
Selenium**	7782492

SELENIUM AND COMPOUNDS

Selenium dioxide	7446084
Selenium disulfide	7488564
Selenium oxide	7446084
Selenourea	630104
L-Serine, diazoacetate (ester)	115026
Silver**	7440224

SILVER AND COMPOUNDS

Silver cyanide	506649
Silver nitrate	7761888
Silvex	93721
Sodium	7440235
Sodium arsenate	7631892
Sodium arsenite	7784465
Sodium azide	26628228
Sodium bichromate	10588019
Sodium bifluoride	1333831
Sodium bisulfite	7631905
Sodium chromate	7775113
Sodium cyanide	143339
Sodium dodecylbenzene sulfonate	25155300
Sodium fluoride	7681494
Sodium hydrosulfide	16721805
Sodium hydroxide	1310732
Sodium hypochlorite	7681529
	10022705
Sodium methylate	124414
Sodium nitrite	7632000
Sodium phosphate, dibasic	7558794
	10039324
	10140655
Sodium phosphate, tribasic	7601549
	7785844
	10101890
	10361894
	7758294
	10124568
Sodium selenite	10102188
	7782823
4,4'Stilbenediol, alpha, alpha'-diethyl-	56531
Streptozotocin	18883664
Strontrium chromate	7789062
Strontium sulfide	1314961
Strychnidin-10-one, and salts	57249
Strychnidin-10-one, 2,3-dimethoxy-	357573
Strychnine and salts	57249
Styrene	100425
Sulfur hydride	7783064
Sulfur monochloride	12771083
Sulfur phosphide	1314803

Sulfur selenide	7488564
Sulfuric acid	7664939
	8014957
Sulfuric acid, dimethyl ester	77781
Sulfuric acid, thallium(I) salt	7446186
	10031591
2,4,5-T	93765
2,4,5-T acid	93765
2,4,5-T amines	2008460
	6369966
	6369977
	1319728
	3813147
2,4,5-T esters	93798
	2545597
	61792072
	1928478
	25168154
2,4,5-T salts	13560991
TDE	72548
1,2,4,5-Tetrachlorobenzene	95943
2,3,7,8-Tetrachlorodibenzo-p-dioxin(TCDD)	1746016
1,1,1,2-Tetrachloroethane	630206
1,1,2,2-Tetrachloroethane	79345
Tetrachloroethylene	127184
2,3,4,6-Tetrachlorophenol	58902
Tetraethyldithiopyro-phosphate	3689245
Tetraethyl lead	78002
Tetraethyl pyrophosphate	107493
Tetrahydrofuran	109999
Tetranitromethane	509148
Tetraphosphoric acid, hexaethyl ester	757584
Thallic oxide	1314325
Thallium**	7440280
THALLIUM AND COMPOUNDS	
Thallium(I) acetate	563688
Thallium(I) carbonate	6533739
Thallium(I) chloride	7791120
Thallium(I) nitrate	10102451
Thallium(III) oxide	1314325
Thallium(I) selenide	12039520
Thallium(I) sulfate	7446186
	10031591
Thioacetamide	62555
Thiofanox	39196184
Thiomidodicarbonic diamide	541537
Thiomethanol	74931
Thiophenol	108985
Thiosemicarbazide	79196
Thiourea	62566
thiourea, (2,chlorophenyl)-	5344821
Thiourea, 1-naphthalenyl	86884
Thiourea, phenyl	103855
Thiram	137268
Toluene	108883
Toluenediamine	95807
	25376458
	496720
	823405
Toluene diisocyanite	584849
	91087
	26471625
o-Toluidine hydrochloride	636215
Toxaphene	8001352
2,4,5-TP acid	93721
2,4,5-TP acid esters	32534955
1H-1,2,4-Triazol-3-amine	61825
Trichlorfon	52686
1,2,4-Trichlorobenzene	120821
1,1,1-Trichloroethane	71556
1,1,2-Trichloroethane	79005
Trichloroethene	79016
Trichloroethylene	79016
Trichloromethanesulfenyl chloride	594423
Trichloromonofluoro-methane	75694
Trichlorophenol	25167822
2,3,4-Trichlorophenol	15950660
2,3,5-Trichlorophenol	933788
2,3,6-Trichlorophenol	933755
2,4,5-Trichlorophenol	95954
2,4,6-Trichlorophenol	88062
3,4,5-Trichlorophenol	609198
2,4,5-Trichlorophenol	95954
2,4,6-Trichlorophenol	80862
2,4,5-Trichlorophenoxy-acetic acid	93765

Triethanolamine dodecylbenzene-sulfonate	27323417
Trimethylamine	121488
Triethylamine	75503
sym-Trinitrobenzene	99354
1,3,5-Trioxane, 2,4,6-trimethyl-	123637
Tris(2,3-dibromopropyl) phosphate	126727
Trypan blue	72571
Unlisted Hazardous Wastes	
Characteristic of Ingnitability	
Characteristic of Corrosivity	
Characteristic of Reactivity	
Characteristic of EP Toxicity	
Arsenic	
Barium	
Cadmium	
Chromium	
Lead	
Mercury	
Selenium	
Silver	
Endrin	
Lindane	
Methoxychlor	
Toxaphene	
2,4-D	
2,4,5-TP	
Uracil, 5-[bis(2-chloro-ethyl)amino]-	66751
Uracil mustard	66751
Uranyl acetate	541093
Uranyl nitrate	10102064
	36478769
Vanadic acid, ammonium salt	7803556
Vanadium (V) oxide	1314621
Vanadium pentoxide	1314621
Vanadyl sulfate	27774136
Vvinyl acetate	108054
Vinyl chloride	75014
Vinylidene chloride	75354
Warfarin	81812
Xylene (mixed)	1330207
m-	108383
o-	95476
p-	106423
Xylenol	1300716
yohimban-16-carboxylic-acid,11,17-dimethoxy -18-[(3,4,5-trimeth-oxybenzoyl)oxy]-, methylester.	50555
Zinc**	7440666
ZINC AND COMPOUNDS	
Zinc acetate	557346
Zinc ammonium chloride	52628258
	14639975
	14639986
Zinc borate	1332076
Zinc bromide	7699458
Zinc carbonate	3486359
Zinc chloride	7646857
Zinc cyanide	557211
Zinc fluoride	7783495
Zinc formate	557415
Zinc hydrosulfite	7779864
Zinc nitrate	7779886
Zinc phenolsulfonate	127822
Zinc phosphide	1314847
Zinc silicofluoride	16871719
Zinc sulfate	7733020
Zirconium nitrate	13746899
Zirconium potassium fluoride	16923958
Zirconium sulfate	14644612
Zirconium tetrachloride	10026116
2-Amino-1-methylbenzene*	95534
4-Amino-1-methylbenzene*	106490
2-Ethoxyethanol*	110805
Ethylene glycol monoethyl ether*	110805
o-Toluidine	95534
p-Toluidine	106490

** No reporting of releases of this hazardous substance is required if diameter of the pieces of the solid metal released is equal to or exceeds 100 micrometers (0.004 Inches).

*** The reportable quantity of asbestos is limited to friable forms only.

(E) Hazardous substances shall include a mixture of hazardous substance and petroleum which is not contained in a petroleum UST system.

Effective date: January 22, 1993

Promulgated under: 119.03
Rule authorized by: 3737.88
Rule amplifies: 3737.88
Prior effective date: 10/2/90

Printed: 1/22/93