

Personal protection and sanitation (See Table 3)		Recommendations for respirator selection — maximum concentration for use (MUC) (See Table 4)	Health hazards				
			Route	Symptoms (See Table 5)	First aid (See Table 6)		Target organs (See Table 5)
Clothing	Repeat	NIOSH/OSHA	Inh	Irrit eyes, nose, throat,	Eye	Irr immed	Eyes, resp sys,
Goggles	Reason prob	500 ppm: CCROV*/SA*/SCBA*	Abs	skin; narco	Skin:	Water wash prompt	skin
Wash:	Prompt contam	1000 ppm: PAPROV*/CCRFOV	Ing		Breath:	Resp support	
Change:	N.R.	1250 ppm: SA/CF*	Con		Swallow	Medical attention	
Remove:	Prompt non-imperv contam	2500 ppm: GMFOV/SCBAF/SAF				immed	
		3500 ppm: SAF/PD,PP					
		§: SCBAF/PD,PP/SAF/PD,PP/ASCBA					
		Escape: GMFOV/SCBAE					
Clothing	Repeat	NIOSH/OSHA	Inh	Irrit eyes, muc memb,	Eye	Irr immed	Resp sys, eyes,
Goggles	Reason prob	625 ppm: SA/CF ^g /PAPROV ^g	Abs	head, narco, coma; derm	Skin:	Water flush prompt	skin, CNS
Wash:	Prompt wet	1000 ppm: CCRFOV	Ing		Breath:	Resp support	
Change:	N.R.	1250 ppm: GMFOV/SCBAF/SAF	Con		Swallow	Medical attention	
Remove:	Immed wet (flamm)	5000 ppm: SAF/PD,PP				immed	
		§: SCBAF/PD,PP/SAF/PD,PP/ASCBA					
		Escape: GMFOV/SCBAE					
Clothing	Repeat	NIOSH/OSHA	Inh	Irrit eyes, resp sys,	Eye	Irr immed	Skin, eyes, resp
Goggles	Reason prob	1000 ppm: PAPROV ^g /CCRFOV	Ing	skin; drow	Skin:	Soap wash prompt	sys
Wash:	Prompt wet	7500 ppm: SA/CF ^g	Con		Breath:	Resp support	
Change:	N.R.	10,000 ppm: GMFOV/SCBAF/SAF			Swallow	Medical attention	
Remove:	Immed wet (flamm)	§: SCBAF/PD,PP/SAF/PD,PP/ASCBA				immed	
		Escape: GMFOV/SCBAE					
Clothing	Repeat	NIOSH/OSHA	Inh	Irrit eyes, nose	Eye	Irr immed	Eyes, resp sys
Goggles	Reason prob	750 ppm: CCROV/SA/SCBA	Ing		Skin:	Soap wash prompt	
Wash:	Prompt wet	1000 ppm: PAPROV/CCRFOV/PAPRTOV	Con		Breath:	Resp support	
Change:	N.R.	1875 ppm: SA/CF			Swallow	Medical attention	
Remove:	Immed wet (flamm)	2000 ppm: GMFOV/SCBAF/SAF				immed	
		§: SCBAF/PD,PP/SAF/PD,PP/ASCBA					
		Escape: GMFOV/SCBAE					

Cyclopentadiene

Chemical name, structure/formula, CAS and RTECS Nos., and DOT ID and guide Nos.	Synonyms, trade names, and conversion factors	Exposure limits (TWA unless noted otherwise)	IDLH	Physical description	Chemical and physical properties		Incompatibilities and reactivities	Measurement method (See Table 1)
					MW, BP, SOL Fl.P, IP, Sp.Gr, flammability	VP, FRZ UEL, LEL		
2,4-D <chem>ClC6H3OCH2COOH</chem> 94-75-7 AG6825000	2,4-Dichlorophenoxyacetic acid, Dichlorophenoxyacetic acid	NIOSH/OSHA 10 mg/m ³	500 mg/m ³	White to yellow crystalline, odorless powder [herbicide]	MW: 221.0 BP: Decomposes Sol: 0.05% Fl.P: NA IP: ?	VP: Low MLT: 280°F UEL: NA LEL: NA	Strong oxidizers	Filter; Methanol; HPLC/UV, III [#5001]
2765 55					Sp Gr(86°F): 1.57 Noncombustible Solid, but may be dissolved in flammable liquids			
DDT <chem>(C6H4Cl)2CHCCl3</chem> 50-29-3 KJ3325000	1,1,1-Trichloro-2,2- bis(p-chlorophenyl)ethane, p,p'-DDT; Dichlorodiphenyltrichloro- ethane	NIOSH Ca See Appendix A 0.5 mg/m ³ OSHA 1 mg/m ³ [skin]	Ca [N.E.]	Colorless crystals or off-white powder with a slight aromatic odor. [pesticide]	MW: 354.5 BP: 230°F (Decomposes) Sol: Insoluble Fl.P: 162-171°F IP: ?	VP: Low MLT: 227°F UEL: ? LEL: ?	Strong oxidizers, alkalis	Filter; Isooctane; GC/ECD; II(3) [#S274]
2761 55					Sp Gr: 0.99 Combustible Solid			
Decaborane <chem>B10H14</chem> 17702-41-9 HD1400000	Boron hydride, Decaboron tetradecahydride	NIOSH/OSHA 0.3 mg/m ³ (0.05 ppm) ST 0.9 mg/m ³ (0.15 ppm) [skin]	100 mg/m ³	Colorless to white crystalline solid with an intense, bitter, chocolate- like odor	MW: 122.2 BP: 415°F Sol: Slight Fl.P: 176°F IP: 9.88 eV	VP(77°F): 0.05 mm MLT: 211°F UEL: ? LEL: ?	Oxidizers, water, halogenated materials (especially carbon tetrachloride) [Note: May sponta- neously ignite on exposure to air. Decomposes slowly in hot water.]	None available
1868 34					Sp Gr(77°F): 0.94 Combustible Solid			
Demeton <chem>C6H19O3PS2</chem> 8065-48-3 TF3150000	O-O-Diethyl-(O and S)-2- (ethylthio)ethyl phosphoro- thioate mixture, Systox™	NIOSH/OSHA 0.1 mg/m ³ [skin]	20 mg/m ³	Amber, oily liquid with a sulfur-like odor [insecticide]	MW: 258.3 BP: Decomposes Sol: 0.01% Fl.P: 113°F IP: ?	VP: 0.0003 mm FRZ: <-13°F UEL: ? LEL: ?	Strong oxidizers, alkalis, water	Filter/ XAD-2, Toluene; GC/FPD; III [#5514]
	1 ppm = 10.74 mg/m ³				Sp.Gr: 1.12 Class II Combustible Liquid			

Personal protection and sanitation (See Table 3)		Recommendations for respirator selection — maximum concentration for use (MUC) (See Table 4)	Health hazards				
			Route	Symptoms (See Table 5)	First aid (See Table 6)		Target organs (See Table 5)
Clothing: Goggles: Wash: Change: Remove	Repeat Reason prob Prompt contam After work if reason prob contam Prompt non-imperv contam	NIOSH/OSHA 100 mg/m ³ : CCROVDMFu/SA/SCBA 250 mg/m ³ : PAPROVDMFu/SA:CF 500 mg/m ³ : CCRFOVHiE/GMFOVHiE/ PAPRTOVHiE/SCBAF/SAF/ SAT CF §. SCBAF:PD,PP/SAF:PD,PP:ASCBA Escape: GMFOVHiE/SCBAE	Inh Abs Ing Con	Weak, stupor, hyporeflexia, musc twitch, convuls, derm, in animals liver, kidney damage	Eye: Skin: Breath: Swallow:	Irr immed Soap wash prompt Resp support Medical attention immed	Skin, CNS
Clothing Goggles Wash Change Remove	Repeat Reason prob Prompt contam After work if reason prob contam Prompt non-imperv contam	NIOSH §. SCBAF:PD,PP/SAF:PD,PP:ASCBA Escape: GMFOVHiE/SCBAE	Inh Abs Ing Con	Pares tongue, lips, face, tremor; appre, dizz, conf, mal, head, ftg, convuls, paresis hands; vomit, irrit eyes, skin, [carc]	Eye Skin: Breath: Swallow:	Irr immed Soap wash prompt Resp support Medical attention immed	CNS, kidneys, liver, skin, PNS
Clothing, Goggles Wash Change Remove Provide	Reason prob Reason prob Immed contam/daily After work if reason prob contam Immed non-imperv contam Eyewash, quick drench	NIOSH/OSHA 3 mg/m ³ : SA/SCBA 7.5 mg/m ³ : SA:CF 15 mg/m ³ : SCBAF/SAF/SAT CF 100 mg/m ³ : SAF:PD,PP §. SCBAF:PD,PP/SAF:PD,PP:ASCBA Escape: GMFOVHiE/SCBAE	Inh Abs Ing Con	Dizz, head, nau, li-head, drow, inco, local musc spasm, tremor, convuls, ftg; in animals dysp, weak, liver, kidney damage	Eye Skin: Breath: Swallow	Irr immed Soap wash immed Resp support Medical attention immed	CNS
Clothing, Goggles Wash Change Remove Provide	Any poss Any poss Immed contam N.R. Immed non-imperv contam Eyewash, quick drench	NIOSH/OSHA 1 mg/m ³ : SA/SCBA 2.5 mg/m ³ : SA:CF 5 mg/m ³ : SCBAF/SAF/SAT CF 20 mg/m ³ : SA:PD,PP §. SCBAF:PD,PP/SAF:PD,PP:ASCBA Escape: GMFOVHiE/SCBAE	Inh Abs Ing Con	Miosis, ache eyes, rhin, head; tight chest, wheez, lar spasm, salv, cyan; anor nau, vomit, abdom cramp, diarr; local sweat; musc fasc, weak, para; gidd, conf, ataxia; convuls, coma; low BP, card irregularities, irrit eyes, skin	Eye Skin Breath: Swallow:	Irr immed Soap wash immed Resp support Medical attention immed	Resp sys, CVS, CNS, skin, eyes, blood chol

Demeton

Chemical name, structure/formula, CAS and RTECS Nos., and DOT ID and guide Nos.	Synonyms, trade names, and conversion factors	Exposure limits (TWA unless noted otherwise)	IDLH	Physical description	Chemical and physical properties		Incompatibilities and reactivities	Measurement method (See Table 1)
					MW, BP, SOL Fl.P, IP, Sp.Gr, flammability	VP, FRZ UEL, LEL		
Diacetone alcohol <chem>CH3COCH2C(CH3)2OH</chem> 123-42-2 SA9100000	Diacetone, 4-Hydroxy-4-methyl-2- pentanone, 2-Methyl-2-pentanol-4-one	NIOSH/OSHA 50 ppm (240 mg/m ³)	2100 ppm	Colorless liquid with a faint, minty odor.	MW 116.2 BP 334°F Sol: Miscible Fl.P. 125°F IP: ?	VP 1 mm FRZ -47°F UEL 6.9% LEL 1.8%	Strong oxidizers, strong alkalis	Char; 2-Propanol/ CS ₂ ; GC/FID; III [#1402, Alcohols III]
1148 26	1 ppm = 4.83 mg/m ³				Sp.Gr. 0.94 Class II Combustible Liquid			
Diazomethane <chem>CH2N2</chem> 334-88-3 PA7000000	Azomethylene, Azomethylene, Diazirine, Diazomethane	NIOSH/OSHA 0.2 ppm (0.4 mg/m ³)	2 ppm	Yellow gas with a musty odor [Note: Shipped as a liquefied compressed gas.]	MW 42.1 BP: -9°F Sol: Reacts Fl.P. NA (Gas) IP 9.00 eV	VP >1 atm FRZ -229°F UEL: ? LEL: ?	Alkali metals, water, drying agents such as calcium arsenate [Note: May explode violently on heating, exposure to sunlight, or contact with rough edges such as ground glass.]	XAD-2*; CS ₂ ; GC/FID; III [#2515]
	1 ppm = 1.75 mg/m ³				Flammable Gas [EXPLOSIVE!]			
Diborane <chem>B2H6</chem> 19287-45-7 HQ9275000	Boroethane, Boron hydride, Diboron hexahydride	NIOSH/OSHA 0.1 ppm (0.1 mg/m ³)	40 ppm	Colorless gas with a repulsive, sweet odor [Note: Usually shipped in pressurized cylinders.]	MW 27.7 BP -135°F Sol: Reacts Fl.P. NA (Gas) IP 11.38 eV	VP: >1 atm FRZ: -265°F UEL: 88% LEL: 0.8%	Water, halogenated compounds, aluminum, lithium, oxidized surfaces, acids [Note: Will ignite spontaneously in moist air at room temperature. Reacts with water to form hydrogen & boric acid.]	Filter/ Char*; H ₂ O ₂ ; PES; III [#6006]
1911 18	1 ppm = 1.15 mg/m ³				Flammable Gas			
1,2-Dibromo-3-chloro- propane <chem>CH2BrCHBrCH2Cl</chem> 96-12-8 TX8750000	1-Chloro-2,3-dibromo- propane; DBCP, Dibromochloropropane	NIOSH Ca See Appendix A OSHA [1910.1044] 0.001 ppm	Ca	Dense yellow or amber liquid with a pungent odor at high concentra- tions [Note: A solid below 43°F.] [pesticide]	MW 236.4 BP 384°F Sol(70°F): 0.1% Fl.P(oc): 170°F IP: ?	VP: 0.8 mm FRZ: 43°F UEL: ? LEL: ?	Chemically-active metals such as aluminum, magnesium & tin alloys [Note: Corrosive to metals.]	None available
2872 58	1 ppm = 9.83 mg/m ³				Sp.Gr: 2.05 Class IIIA Combustible Liquid			

Personal protection and sanitation (See Table 3)		Recommendations for respirator selection — maximum concentration for use (MUC) (See Table 4)	Health hazards				
			Route	Symptoms (See Table 5)	First aid (See Table 6)		Target organs (See Table 5)
Clothing	Repeat	NIOSH/OSHA	Inh	Irrit eyes, nose, throat,	Eye.	Irr immed	Eyes, skin, resp
Goggles	Reason prob	1000 ppm: CCRFOV/PAPROV ^c	Ing	skin, corneal tissue	Skin:	Water flush prompt	sys
Wash	Prompt wet	1250 ppm: SA, CF ^c	Con	damage, narco	Breath.	Resp support	
Change	N R	2100 ppm: GMFOV/SCBAF/SAF			Swallow	Medical attention	
Remove	Prompt non-imperv wet	§ SCBAF PD,PP/SAF:PD,PP:ASCBA Escape: GMFOV/SCBAE				immed	
Clothing	Prevent contam or freezing	NIOSH/OSHA	Inh	Cough, short breath;	Eye	Irr immed	Resp sys, eyes,
Goggles	Any poss	2 ppm: SA*/SCBA*	Ing	head, flush skin, fever,	Skin:	Water flush immed	skin
Wash	Prompt contam	§ SCBAF PD,PP/SAF:PD,PP:ASCBA	Con	chest pain, pulm edema, pneumitis; irrit eyes; asthma, ftg	Breath	Resp support	
Change	N.R	Escape: GMFOV/SCBAE			Swallow	Medical attention	
Remove	Immed wet (flamm)					immed	
Provide	Eyewash						
Clothing:	N R	NIOSH/OSHA	Inh	Tight chest, precordial	Eye	Irr immed	Resp sys, CNS
Goggles.	N.R	1 ppm: SA/SCBA	Con	pain, short breath, non-productive cough, nau;	Breath:	Resp support	
Wash	N.R	2.5 ppm: SA CF		head, li-head, verti,			
Change	N.R	5 ppm: SCBAF/SAF/SAT CF		chills, fever, ftg, weak,			
Remove	N.R	40 ppm: SA PD,PP		tremor, musc fasc;			
		§ SCBAF PD,PP/SAF:PD,PP:ASCBA		in animals: liver, kidney			
		Escape: GMFS/SCBAE		damage: pulm edema; hemorr			
Clothing	Any poss	NIOSH	Inh	Drow; nau, vomit;	Eye	Irr immed	CNS, skin, liver,
Goggles	Any poss	Y: SCBAF PD,PP/SAF:PD,PP:ASCBA	Abs	irrit eyes, nose, throat,	Skin.	Soap wash immed	kidneys, spleen,
Wash	Immed contam/daily	Escape: GMFOVH/E/SCBAE	Con	skin; pulm edema, [carc]	Breath.	Resp support	reproductive sys,
Change:	After work if any poss contam				Swallow.	Medical attention	digestive sys
Remove.	Immed contam					immed	

1,2-Dibromo-3-chloropropane

Chemical name, structure/formula, CAS and RTECS Nos., and DOT ID and guide Nos	Synonyms, trade names, and conversion factors	Exposure limits (TWA unless noted otherwise)	IDLH	Physical description	Chemical and physical properties		Incompatibilities and reactivities	Measurement method (See Table 1)
					MW, BP, SOL Fl.P, IP, Sp.Gr, flammability	VP, FRZ UEL, LEL		
Dibutyl phosphate (C ₄ H ₉ O) ₂ (OH)PO 107-66-4 TB9605000	Dibutyl acid o-phosphate, di-n-Butyl hydrogen phosphate, Dibutyl phosphoric acid	NIOSH/OSHA 1 ppm (5 mg/m ³) ST 2 ppm (10 mg/m ³)	125 ppm	Pale amber, odorless liquid	MW: 210.2 BP: 212°F (Decomposes) Sol: Insoluble Fl.P: ? IP: ?	VP: 1 mm (approx) FRZ: ? UEL: ? LEL: ?	Strong oxidizers	Filter, CH ₃ CN; GC/FPD, III [#5017]
	1 ppm = 8.74 mg/m ³				Sp Gr: 1.06 Combustible Liquid			
Dibutylphthalate C ₆ H ₄ (COOC ₄ H ₉) ₂ 84-74-2 TI0875000	DBP; Dibutyl 1,2-benzene- dicarboxylate, Di-n-butyl phthalate	NIOSH/OSHA 5 mg/m ³	9300 mg/m ³	Colorless to faint yellow, oily liquid with a slight, aromatic odor	MW: 278.3 BP: 644°F Sol(77°F): 0.5% Fl.P: 315°F IP: ?	VP: <0.01 mm FRZ: -31°F UEL: ? LEL(456°F): 0.5%	Nitrates; strong oxidizers, alkalis & acids, liquid chlorine	Filter CS ₂ ; GC/FID, III [#5020]
	1 ppm = 11.57 mg/m ³				Sp Gr: 1.05 Class IIIB Combustible Liquid			
o-Dichlorobenzene C ₆ H ₄ Cl ₂ 95-50-1 CZ4500000	o-DCB, 1,2-Dichlorobenzene, ortho-Dichlorobenzene; o-Dichlorobenzol	NIOSH/OSHA C 50 ppm (300 mg/m ³)	1000 ppm	Colorless to pale- yellow liquid with a pleasant, aromatic odor. [herbicide]	MW: 147.0 BP: 357°F Sol: 0.01% Fl.P: 151°F IP: 9.06 eV	VP: 1 mm FRZ: 1°F UEL: 9.2% LEL: 2.2%	Strong oxidizers, aluminum, acids, acid fumes, chlorides	Char, CS ₂ ; GC/FID, III [#1003, Halogenated Hydrocarbons]
1591-58	1 ppm = 6.11 mg/m ³				Sp Gr: 1.30 Class IIIA Combustible Liquid			
p-Dichlorobenzene C ₆ H ₄ Cl ₂ 106-46-7 CZ4550000	p-DCB, 1,4-Dichlorobenzene, para-Dichlorobenzene, Dichlorocide	NIOSH Ca See Appendix A OSHA 75 ppm (450 mg/m ³) ST 110 ppm (675 mg/m ³)	Ca [1000 ppm]	Colorless or white crystalline solid with a mothball- like odor [insecticide]	MW: 147.0 BP: 345°F Sol: 0.008% Fl.P: 150°F IP: 8.98 eV Sp Gr: 1.25 Combustible Solid, but may take some effort to ignite	VP(77°F): 0.4 mm MLT: 128°F UEL: ? LEL: ?	Oxidizers	Char; CS ₂ ; GC/FID; III [#1003, Halogenated Hydrocarbons]
1592-58								

Personal protection and sanitation (See Table 3)		Recommendations for respirator selection — maximum concentration for use (MUC) (See Table 4)	Health hazards				
			Route	Symptoms (See Table 5)	First aid (See Table 6)		Target organs (See Table 5)
Clothing: Goggles: Wash: Change: Remove: Provide:	Reason prob Reason prob Prompt contam N R Prompt non-imperv contam Quick drench	NIOSH/OSHA 10 ppm SA/SCBA 25 ppm SA CF 50 ppm SCBAF/SAF/SAT CF 125 ppm SA:PD,PP § SCBAF PD,PP/SAF PD,PP,ASCBA Escape: GMFOVH/E/SCBAE	Inh Ing Con	Irrit resp sys, skin, head	Eye Skin Breath Swallow	Irr immed Soap wash prompt Resp support Medical attention immed	Resp sys, skin
Clothing: Goggles: Wash: Change: Remove:	N R Reason prob N.R. N.R. N R	NIOSH/OSHA 50 mg/m ³ DMF 125 mg/m ³ PAPRDM ^E /SA CF ^E 250 mg/m ³ HiEF/SCBAF/SAF 9300 mg/m ³ SAF:PD,PP § SCBAF PD,PP/SAF PD,PP,ASCBA Escape: HiEF/SCBAE	Inh Ing Con	Irrit upper resp tract, stomach	Eye Skin Breath Swallow	Irr immed Wash regularly Resp support Medical attention immed	Resp sys, GI tract
Clothing: Goggles: Wash: Change: Remove:	Repeat Reason prob Prompt contam N.R. Prompt non-imperv contam	NIOSH/OSHA 1000 ppm PAPROV ^E /CCRFOV § SCBAF PD,PP/SAF PD,PP,ASCBA Escape: GMFOV/SCBAE	Inh Abs Ing Con	Irrit nose, eyes, liver, kidney damage, skin blister	Eye Skin Breath Swallow	Irr immed Soap wash prompt Resp support Medical attention immed	Liver, kidneys, skin, eyes
Clothing: Goggles: Wash: Change: Remove:	Repeat Reason prob Daily (reason prob) N R N.R.	NIOSH Y SCBAF PD,PP/SAF PD,PP,ASCBA Escape: GMFOV/SCBAE	Inh Ing Con	Head, eye irrit, swell periorb: profuse rhinitis, anor, nau, vomit, low-wgt, jaun, cirr, [carc] in animals: liver, kidney damage	Eye Skin Breath Swallow	Irr immed Soap wash Resp support Medical attention immed	Liver, resp sys, eyes, kidneys, skin

p-Dichlorobenzene

Chemical name, structure/formula, CAS and RTECS Nos., and DOT ID and guide Nos.	Synonyms, trade names, and conversion factors	Exposure limits (TWA unless noted otherwise)	IDLH	Physical description	Chemical and physical properties		Incompatibilities and reactivities	Measurement method (See Table 1)
					MW, BP, SOL Fl.P, IP, Sp.Gr, flammability	VP, FRZ UEL, LEL		
3,3'-Dichlorobenzidine (and its salts) <chem>C6H3ClNH2C6H3ClNH2</chem> 91-94-1 DD0525000	4,4'-Diamino-3,3'-dichloro- biphenyl, Dichlorobenzidine base, o,o'-Dichlorobenzidine; 3,3'-Dichlorobiphenyl-4,4'- diamine; 3,3'-Dichloro-4,4'-biphenyl- diamine; 3,3'-Dichloro-4,4'-diamino- biphenyl	NIOSH Ca See Appendix A OSHA [1910.1007] See Appendix B ACGIH A2 [skin]	Ca	Gray to purple crystalline solid	MW: 253.1 BP: 788°F Sol. Almost Insoluble Fl.P. ? IP: ?	VP: ? MLT: 271°F UEL: ? LEL: ?	None reported	Filter/ Si gel, Reagent, HPLC/UVD, III [#5509]
Dichlorodifluoromethane <chem>CCl2F2</chem> 75-71-8 PAB200000	Difluorodichloromethane, Fluorocarbon 12, Freon® 12, Halon® 122, Propellant 12, Refrigerant 12	NIOSH/OSHA 1000 ppm (4950 mg/m³)	50,000 ppm	Colorless gas with an ether-like odor at extremely high concentrations [Note. Shipped as a liquefied compressed gas.]	MW: 120.9 BP: -22°F Sol(77°F): 0.03% Fl.P. NA IP: 11.75 eV	VP: >1 atm FRZ: -252°F UEL: NA LEL: NA	Chemically-active metals such as sodium, potassium, calcium, powdered aluminum, zinc & magnesium	Char(2); CH ₂ Cl ₂ ; GC/FID; III [#1018]
1028 12	1 ppm = 5.03 mg/m³				Nonflammable Gas			
1,3-Dichloro 5,5 dimethylhydantoin <chem>C5H6Cl2N2O2</chem> 118-52-5 MU0700000	Dactin, DDH, Halane	NIOSH/OSHA 0.2 mg/m³ ST 0.4 mg/m³	Unknown	White powder with a chlorine-like odor.	MW: 197.0 BP: ? Sol: 0.2% Fl.P. 346°F IP: ?	VP: ? MLT: 270°F UEL: ? LEL: ?	Water, strong acids, easily oxidized materials such as ammonia salts & sulfides	None available
					Sp Gr: 1.5 Combustible Solid			
1,1 Dichloroethane <chem>CHCl2CH3</chem> 75-34-3 KI0175000	Asymmetrical dichloroethane, Ethylidene chloride, 1,1-Ethylidene dichloride	NIOSH/OSHA 100 ppm (400 mg/m³)	4000 ppm	Colorless, oily liquid with a chloroform-like odor	MW: 99.0 BP: 135°F Sol: 0.6% Fl.P(oc): 22°F IP: 11.06 eV	VP(77°F): 230 mm FRZ: -143°F UEL: ? LEL: 5.6%	Strong oxidizers, strong caustics	Char, CS ₂ ; GC/FID, III [#1003, Haloge- nated Hydro- carbons]
2362 27	1 ppm = 4.12 mg/m³				Sp Gr: 1.18 Class IB Flammable Liquid			

Personal protection and sanitation (See Table 3)		Recommendations for respirator selection — maximum concentration for use (MUC) (See Table 4)	Health hazards				
			Route	Symptoms (See Table 5)	First aid (See Table 6)		Target organs (See Table 5)
Clothing	Any poss	NIOSH	Inh	Allergic skin reaction,	Eye:	Irr immed (15 min)	Bladder, liver,
Goggles	Any poss	Y SCBAF,PD,PP/SAF:PD,PP:ASCBA	Abs	sens, derm; head, dizz,	Skin	Soap wash immed	lung, skin, GI
Wash	Immed contam/daily	Escape HIEF/SCBAE	Ing	caustic burns; frequent	Breath.	Resp support	tract
Change	After work if any poss		Con	urination, dysuria, hema;	Swallow.	Medical attention	
Remove	Immed contam			GI upsets; upper resp		immed	
Provide	Eyewash, quick drench			infection, [carc]			
Clothing	Prevent wet or freezing	NIOSH/OSHA	Inh	Dizz, tremors,	Eye	Irr immed	CVS, PNS
Goggles	Reason prob	10,000 ppm: SA/SCBA	Con	unconsciousness, card	Skin	Water flush immed	
Wash	N R.	25,000 ppm: SA/CF		arrhy, card arrest	Breath:	Resp support	
Change	N R.	50,000 ppm: SCBAF/SAF					
Remove	Immed wet (flamm)	S: SCBAF,PD,PP/SAF:PD,PP:ASCBA					
		Escape GMFOV/SCBAE					
Clothing	Repeat	NIOSH/OSHA	Inh	Irrit eyes, muc memb,	Eye.	Irr immed	Resp sys, eyes
Goggles	Any poss	2 mg/m ³ : SA/SCBA	Ing	resp sys	Skin.	Soap wash prompt	
Wash	Prompt contam	5 mg/m ³ : SA/CF/SCBAF/SAF	Con		Breath:	Resp support	
Change	After work if reason	S: SCBAF,PD,PP/SAF:PD,PP:ASCBA			Swallow:	Medical attention	
Remove	prob contam	Escape GMFSHIE/SCBAE				immed	
Provide	Prompt non-imperv						
	contam						
	Eyewash						
Clothing	Repeat	NIOSH/OSHA	Inh	CNS depres, skin irrit,	Eye	Irr immed	Skin, liver,
Goggles	Reason prob	1000 ppm: SA/SCBA	Ing	liver, kidney damage	Skin.	Soap flush prompt	kidneys
Wash	Immed wet	2500 ppm: SA/CF	Con		Breath:	Resp support	
Change	N R.	4000 ppm: SCBAF/SAF			Swallow	Medical attention	
Remove	Immed wet (flamm)	S: SCBAF,PD,PP/SAF:PD,PP:ASCBA				immed	
		Escape GMFOV/SCBAE					

1,1-Dichloroethane

Chemical name, structure/formula, CAS and RTECS Nos., and DOT ID and guide Nos.	Synonyms, trade names, and conversion factors	Exposure limits (TWA unless noted otherwise)	IDLH	Physical description	Chemical and physical properties		Incompatibilities and reactivities	Measurement method (See Table 1)
					MW, BP, SOL Fl.P, IP, Sp.Gr, flammability	VP, FRZ UEL, LEL		
1,2-Dichloroethylene ClCH=CHCl 540-59-0 KV9360000	Acetylene dichloride, cis-Acetylene dichloride, trans-Acetylene dichloride, sym-Dichloroethylene	NIOSH/OSHA 200 ppm (790 mg/m ³)	4000 ppm	Colorless liquid (usually a mixture of the cis & trans isomers) with a slightly acrid, chloroform-like odor	MW: 97.0 BP: 118-140°F Sol: 0.4% Fl.P: 36°F IP: 9.65 eV	VP: 180-264 mm FRZ: -57 to -115°F UEL: 12.8% LEL: 5.6%	Strong oxidizers, strong alkalis, potassium hydroxide, copper	Char; CS ₂ ; GC/FID; III [#1003, Halogenated Hydro- carbons]
1150 29	1 ppm = 4.03 mg/m ³				Sp.Gr(77°F): 1.27 Class IB Flammable Liquid			
Dichloroethyl ether (ClCH ₂ CH ₂) ₂ O 111-44-4 KN0875000	bis(2-Chloroethyl)ether; 2,2'-Dichlorodiethyl ether	NIOSH Ca See Appendix A 5 ppm (30 mg/m ³) ST 10 ppm (60 mg/m ³) [skin] OSHA 5 ppm (30 mg/m ³) ST 10 ppm (60 mg/m ³) [skin]	Ca [250 ppm]	Colorless liquid with a chlorinated solvent-like odor	MW: 143.0 BP: 352°F Sol: 1% Fl.P: 131°F IP: ?	VP: 0.7 mm FRZ: -58°F UEL: ? LEL: 2.7%	Strong oxidizers [Note: Decomposes in presence of moisture to form hydrochloric acid]	Char, CS ₂ ; GC/FID III [#1004]
1916 57	1 ppm = 5.94 mg/m ³				Sp.Gr: 1.22 Class IIIA Combustible Liquid			
Dichloromonofluoro- methane CHCl ₂ F 75-43-4 PA8400000	Dichlorofluoromethane, Fluorodichloromethane, Freon® 21, Halon® 112, Refrigerant 21	NIOSH/OSHA 10 ppm (40 mg/m ³)	50,000 ppm	Colorless gas with a slight, ether- like odor. [Note: A liquid below 48°F Shipped as a liquefied compressed gas]	MW: 102.9 BP: 48°F Sol(86°F): 0.7% Fl.P: NA IP: 12.39 eV	VP: >1 atm FRZ: -211°F UEL: NA LEL: NA	Chemically-active metals such as sodium, potassium, calcium, powdered aluminum, zinc & magnesium, acid, acid fumes	Char(2); CS ₂ ; GC/FID; III [#2516]
1029 12	1 ppm = 4.28 mg/m ³				Nonflammable Gas			
1,1-Dichloro-1-nitro- ethane CH ₃ CCl ₂ NO ₂ 594-72-9 KI1050000	Dichloronitroethane	NIOSH/OSHA 2 ppm (10 mg/m ³)	150 ppm	Colorless liquid with an unpleasant odor. [fumigant]	MW: 143.9 BP: 255°F Sol: 0.3% Fl.P: 136°F IP: ?	VP: 15 mm FRZ: ? UEL: ? LEL: ?	Strong oxidizers [Note: Corrosive to iron in presence of moisture.]	Char(pet); CS ₂ ; GC/FID; III [#1601]
2650 57	1 ppm = 5.98 mg/m ³				Sp.Gr: 1.43 Class II Combustible Liquid			

Personal protection and sanitation (See Table 3)		Recommendations for respirator selection — maximum concentration for use (MUC) (See Table 4)	Health hazards				
			Route	Symptoms (See Table 5)	First aid (See Table 6)		Target organs (See Table 5)
Clothing:	Repeat	NIOSH/OSHA	Inh	Irrit eyes, resp sys; CNS	Eye:	Irr immed	Resp sys, eyes,
Goggles:	Reason prob	1000 ppm: PAPROV ¹ /CCRFOV	Ing	depres	Skin:	Soap wash prompt	CNS
Wash:	Prompt wet	4000 ppm: SA,CF ¹ /GMFOV/SCBAF/SAF	Con		Breath:	Resp support	
Change:	N.R	§: SCBAF:PD,PP/SAF:PD,PP:ASCBA			Swallow	Medical attention immed	
Remove:	Immed wet (flamm)	Escape: GMFOV/SCBAE					
Clothing:	Reason prob	NIOSH	Inh	Lac; irrit nose, throat,	Eye:	Irr immed	Resp sys, skin,
Goggles:	Reason prob	¥: SCBAF:PD,PP/SAF:PD,PP:ASCBA	Abs	cough; nau, vomit, [carc];	Skin:	Soap wash	eyes
Wash:	Immed contam	Escape: GMFOV/SCBAE	Ing	in animals: pulm irrit,	Breath:	Resp support	
Change:	N.R		Con	edema; liver damage	Swallow	Medical attention immed	
Remove:	Immed non-imperv contam						
Provide:	Quick drench						
Clothing:	Any poss wet	NIOSH/OSHA	Inh	Asphy, card arrhy,	Eye:	Irr immed	Resp sys, CVS
Goggles:	Reason prob	100 ppm: SA/SCBA	Ing	card arrest	Skin:	Water flush immed	
Wash:	N.R	250 ppm: SA,CF	Con		Breath:	Resp support	
Change:	N.R	500 ppm: SCBAF/SAF			Swallow:	Medical attention immed	
Remove:	Immed wet	10,000 ppm: SA:PD,PP					
		20,000 ppm: SAF:PD,PP					
		§: SCBAF:PD,PP/SAF:PD,PP:ASCBA					
		Escape: GMFOV/SCBAE					
Clothing:	Repeat	NIOSH/OSHA	Inh	In animals: irrit eyes,	Eye:	Irr immed	Lungs
Goggles:	Reason prob	20 ppm: SA/SCBA	Ing	skin, liver, heart, kidney	Skin:	Soap wash immed	
Wash:	Prompt contam	50 ppm: SA,CF	Con	damage; pulm edema, hemorr	Breath:	Resp support	
Change:	N.R	100 ppm: SCBAF/SAF			Swallow	Medical attention immed	
Remove:	Prompt non-imperv contam	150 ppm: SAF:PD,PP					
		§: SCBAF:PD,PP/SAF:PD,PP:ASCBA					
		Escape: GMFOV/SCBAE					

1,1-Dichloro-1-nitroethane

Chemical name, structure/formula, CAS and RTECS Nos., and DOT ID and guide Nos.	Synonyms, trade names, and conversion factors	Exposure limits (TWA unless noted otherwise)	IDLH	Physical description	Chemical and physical properties		Incompatibilities and reactivities	Measurement method (See Table 1)
					MW, BP, SOL Fl.P, IP, Sp.Gr, flammability	VP, FRZ UEL, LEL		
Dichlorotetrafluoro- ethane CClF ₂ CClF ₂ 76-14-2 K11101000	1,2-Dichlorotetra- fluoroethane; Freon® 114, Halon® 242; Refrigerant 114	NIOSH/OSHA 1000 ppm (7000 mg/m ³)	50,000 ppm	Colorless gas with a faint, ether- like odor at high concentrations. [Note: A liquid below 38°F. Shipped as a liquefied compressed gas.]	MW: 170.9 BP: 38°F Sol: 0.01% Fl.P. NA IP: 12.20 eV	VP: >1 atm FRZ: -137°F UEL: NA LEL: NA	Chemically-active metals such as sodium, potassium, calcium, powdered aluminum, zinc & magnesium; acids; acid fumes	Char(2), CH ₂ Cl ₂ , GC/FID, III [#1018]
1958 12	1 ppm = 7.10 mg/m ³				Nonflammable Gas			
Dichlorvos (CH ₃ O) ₂ P(O)OCH=CCl ₂ 62-73-7 TC0350000	DDVP; 2,2-Dichlorovinyl dimethyl phosphate	NIOSH/OSHA 1 mg/m ³ [skin]	200 mg/m ³	Colorless to amber liquid with a mild, chemical odor. [Note: Insecticide that may be absorbed on a dry carrier.]	MW: 221.0 BP: Decomposes Sol: 0.5% Fl.P(oc): >175°F IP: ?	VP(86°F) 0.01 mm FRZ: ? UEL: ? LEL: ?	Strong acids, strong alkalis [Note: Corrosive to iron & mild steel.]	XAD-2; Toluene; GC/FPD, II(5) [P&CAM #295]
2783 55	1 ppm = 9.19 mg/m ³				Sp.Gr(77°F) 1.42 Class III Combustible Liquid			
Dieldrin C ₁₂ H ₈ Cl ₆ O 60-57-1 IO1750000	1,2,3,4,10,10-Hexachloro- 6,7-epoxy-1,4,4a,5,6,7,8, 8a-octahydro-1,4-endo- exo-5,8-dimethano- naphthalene, HEOD	NIOSH Ca See Appendix A 0.25 mg/m ³ [skin] OSHA 0.25 mg/m ³ [skin]	Ca [450 mg/m ³]	Colorless to light tan crystals with a mild, chemical odor. [insecticide]	MW: 380.9 BP: Decomposes Sol: 0.02% Fl.P. NA IP: ?	VP: Low MLT: 349°F UEL: NA LEL: NA	Strong oxidizers, active metals such as sodium, strong acids, phenols	Filter: Isocotane, GC/ECD, II(3) [#S283]
2761 55					Sp.Gr. 1.75 Noncombustible Solid			
Diethylamine (C ₂ H ₅) ₂ NH 109-89-7 HZ8750000	Diethylamine; N,N-Diethylamine; N-Ethylethanamine	NIOSH/OSHA 10 ppm (30 mg/m ³) ST 25 ppm (75 mg/m ³)	2000 ppm	Colorless liquid with a fishy, ammonia-like odor	MW: 73.1 BP: 132°F Sol: Miscible Fl.P. -15°F IP: 8.01 eV	VP: 192 mm FRZ: -58°F UEL: 10.1% LEL: 1.8%	Strong oxidizers, strong acids, cellulose nitrate	Si gel; H ₂ SO ₄ / Methanol; GC/FID; III [#2010]
1154 68	1 ppm = 3.04 mg/m ³				Sp.Gr. 0.71 Class IB Flammable Liquid			

Personal protection and sanitation (See Table 3)		Recommendations for respirator selection — maximum concentration for use (MUC) (See Table 4)	Health hazards				
			Route	Symptoms (See Table 5)	First aid (See Table 6)		Target organs (See Table 5)
Clothing	Any poss wet	NIOSH/OSHA	Inh	Irrit resp sys: asphy;	Eye	Irr immed	Resp sys, CVS
Goggles	Reason prob	10,000 ppm SA/SCBA	Ing	card arrhy, card arrest	Skin	Water flush immed	
Wash	N R	25,000 ppm SA:CF	Con		Breath	Resp support	
Change	N R	50,000 ppm SCBAF/SAF			Swallow	Medical attention immed	
Remove	Immed wet	§ SCBAF:PD,PP/SAF:PD,PP ASCBA					
		Escape: GMFOV/SCBAE					
Clothing	Repeat	NIOSH/OSHA	Inh	Miosis, ache eyes, rhin;	Eye:	Irr immed	Resp sys, CVS.
Goggles	Reason prob	10 mg/m ³ : SA/SCBA	Abs	head; tight chest, wheez,	Skin	Soap wash immed	CNS, eyes, skin,
Wash	Immed contam	25 mg/m ³ : SA:CF	Ing	lar spasm, salv; cyan,	Breath:	Resp support	blood chol
Change	N R	50 mg/m ³ : SCBAF/SAF/SAT.CF	Con	anor, nau, vomit, diarr,	Swallow:	Medical attention immed	
Remove:	Immed non-imperv contam	200 mg/m ³ : SA:PD,PP		sweat; musc fasc, para,			
		§: SCBAF,PD,PP/SAF:PD,PP,ASCBA		gidd, ataxia; convuls,			
		Escape: GMFOVHiE/SCBAE		low BP, card irregularities,			
				irrit skin, eyes			
Clothing:	Any poss	NIOSH	Inh	Head, dizz; nau, vomit,	Eye	Irr immed	CNS, liver,
Goggles:	Any poss	§: SCBAF:PD,PP/SAF:PD,PP ASCBA	Abs	mal, sweat, myoclonic	Skin	Soap wash immed	kidneys, skin
Wash:	Immed contam	Escape: GMFOVHiE/SCBAE	Ing	limb jerks; clonic, tonic	Breath:	Resp support	
Change	After work if any poss contam		Con	convuls, coma, [carc], in animals liver, kidney damage	Swallow	Medical attention immed	
Remove, Provide	Immed non-imperv contam Eyewash, quick drench						
Clothing:	Any poss liq	NIOSH/OSHA	Inh	Eye, skin, resp sys irrit	Eye	Irr immed	Resp sys, skin, eyes
Goggles	Any poss >0.5%/	250 ppm: SA:CF [§] /PAPRS [§]	Abs		Skin:	Water flush immed	
Wash	Reason prob 0.5%	500 ppm: GMFS/SCBAF/SAF/CCRFS	Ing		Breath:	Resp support	
Change	Immed contam liq	2000 ppm SAF:PD,PP	Con		Swallow	Medical attention immed	
Remove	N R	§: SCBAF,PD,PP/SAF:PD,PP,ASCBA					
Provide	Immed wet (flamm) Eyewash (>0.5%)/ Quick drench (liq)	Escape: GMFS/SCBAE					

Diethylamine

Chemical name, structure/formula, CAS and RTECS Nos., and DOT ID and guide Nos.	Synonyms, trade names, and conversion factors	Exposure limits (TWA unless noted otherwise)	IDLH	Physical description	Chemical and physical properties		Incompatibilities and reactivities	Measurement method (See Table 1)
					MW, BP, SOL Fl.P, IP, Sp.Gr, flammability	VP, FRZ UEL, LEL		
2 Diethylaminoethanol (C ₂ H ₅) ₂ NCH ₂ CH ₂ OH 100-37-8 KK5075000	Diethylaminoethanol, 2-Diethylaminoethyl alcohol, N,N-Diethylethanolamine; Diethyl-(2-hydroxyethyl)- amine, 2-Hydroxytriethylamine	NIOSH/OSHA 10 ppm (50 mg/m ³) [skin]	500 ppm	Colorless liquid with a nauseating, ammonia-like odor.	MW: 117.2 BP: 325°F Sol: Miscible Fl.P: 126°F IP: ?	VP: 21 mm FRZ: -94°F UEL: ? LEL: ?	Strong oxidizers, strong acids	Si gel, Methanol, GC/FID; III [#2007, Amino- ethanol Com- pounds]
2686-29	1 ppm = 4.87 mg/m ³				Sp Gr: 0.89 Class II Combustible Liquid			
Difluorodibromomethane CBr ₂ F ₂ 75-61-6 PA7525000	Dibromodifluoromethane, Freon® 12B2, Halon® 1202	NIOSH/OSHA 100 ppm (860 mg/m ³)	2500 ppm	Colorless, heavy liquid or gas (above 76°F) with a characteristic odor.	MW: 209.8 BP: 76°F Sol: Insoluble Fl.P: NA IP: 11.07 eV	VP: 620 mm FRZ: -231°F UEL: NA LEL: NA	Chemically-active metals such as sodium, potassium, calcium, powdered aluminum, zinc & magnesium	Char(2); 2-Propanol, GC/FID; III [#1012]
1941-58	1 ppm = 8.72 mg/m ³				Sp Gr(59°F): 2.29 Nonflammable Liquid			
Diglycidyl ether C ₆ H ₁₀ O ₃ 2238-07-5 KN2350000	Diallyl ether dioxide, DGE, 2-Epoxypropyl ether, bis (2,3-Epoxypropyl) ether; di(2,3-Epoxypropyl) ether	NIOSH Ca See Appendix A 0.1 ppm (0.5 mg/m ³) OSHA 0.1 ppm (0.5 mg/m ³)	Ca [25 ppm]	Colorless liquid with a strong, irritating odor.	MW: 130.2 BP: 500°F Sol: ? Fl.P: 147°F IP: ?	VP(77°F): 0.09 mm FRZ: ? UEL: ? LEL: ?	Strong oxidizers	None available
	1 ppm = 5.41 mg/m ³				Sp Gr(77°F): 1.26 Class IIIA Combustible Liquid			
Diisobutyl ketone ((CH ₃) ₂ CHCH ₂) ₂ CO 108-83-8 MJ5775000	DIBK; sym-Diisopropyl acetone, 2,6-Dimethyl-4-heptanone, Isovalerone; Valerone	NIOSH/OSHA 25 ppm (150 mg/m ³)	2000 ppm	Colorless liquid with a mild, sweet odor	MW: 142.3 BP: 334°F Sol: 0.05% Fl.P: 120°F IP: ?	VP: 2 mm FRZ: -43°F UEL(200°F): 7.1% LEL(200°F): 0.8%	Strong oxidizers	Char, CS ₂ , GC/FID; III [#1300, Ketones I]
1157-26	1 ppm = 5.92 mg/m ³				Sp.Gr: 0.81 Class II Combustible Liquid			

Personal protection and sanitation (See Table 3)		Recommendations for respirator selection — maximum concentration for use (MUC) (See Table 4)	Health hazards				
			Route	Symptoms (See Table 5)	First aid (See Table 6)		Target organs (See Table 5)
Clothing Goggles Wash. Change: Remove Provide	Reason prob Any poss >5%/Reason prob <5% Immed contam N R Immed non-imperv contam Eyewash (>5%), quick drench	NIOSH/OSHA 100 ppm CCROV*/SA*/SCBA* 250 ppm SA CF*/PAPROV* 500 ppm CCRFOV/PAPRTOV*/GMFOV/ SCBAF/SAF § SCBAF:PD,PP/SAF,PD,PP:ASCBA Escape: GMFOV/SCBAE	Inh Abs Ing Con	Nau. vomit; irrit resp sys, skin, eyes	Eye: Skin: Breath: Swallow:	Irr immed Water flush immed Resp support Medical attention immed	Resp sys skin, eyes
Clothing Goggles Wash. Change: Remove	Repeat Reason prob N R N R Prompt non-imperv wet	NIOSH/OSHA 1000 ppm SA/SCBA 2500 ppm SA:CF/SCBAF/SAF § SCBAF:PD,PP/SAF,PD,PP:ASCBA Escape GMFOV/SCBAE	Inh Ing Con	In animals: irrit resp sys; CNS symptoms, liver damage	Eye Skin: Breath: Swallow.	Irr immed Water flush immed Resp support Medical attention immed	Resp sys
Clothing Goggles Wash Change: Remove Provide	Any poss Reason prob Immed contam/daily After work if any poss contam Immed non-imperv contam Quick drench	NIOSH § SCBAF PD,PP/SAF,PD,PP:ASCBA Escape GMFOV/SCBAE	Inh Ing Con	Irrit eyes, resp sys; skin burns, [carc]; in animals: hemato sys, lung, liver, kidney damage	Eye: Skin: Breath Swallow	Irr immed Soap wash immed Resp support Medical attention immed	Skin, eyes, resp sys
Clothing Goggles Wash Change Remove	Repeat N R Prompt wet N.R. Prompt non-imperv contam	NIOSH/OSHA 625 ppm SA CF*/PAPROV* 1000 ppm: CCRFOV 1250 ppm: GMFOV/SCBAF/SAF 2000 ppm: SAF:PD,PP § SCBAF PD,PP/SAF:PD,PP:ASCBA Escape. GMFOV/SCBAE	Inh Ing Con	Irrit eyes, nose, throat; head. dizz. derm	Eye: Skin Breath. Swallow:	Irr immed Soap wash prompt Resp support Medical attention immed	Resp sys, skin, eyes

Diisobutyl ketone

Chemical name, structure/formula, CAS and RTECS Nos., and DOT ID and guide Nos.	Synonyms, trade names, and conversion factors	Exposure limits (TWA unless noted otherwise)	IDLH	Physical description	Chemical and physical properties		Incompatibilities and reactivities	Measurement method (See Table 1)
					MW, BP, SOL Fl.P, IP, Sp.Gr, flammability	VP, FRZ UEL, LEL		
Diisopropylamine $((CH_3)_2CH)_2NH$ 108-18-9 IM4025000	N-(1-Methylethyl)-2- propanamine	NIOSH/OSHA 5 ppm (20 mg/m ³) [skin]	1000 ppm	Colorless liquid with an ammonia- or fish-like odor.	MW: 101.2 BP: 183°F Sol: Slight Fl.P. 20°F IP 7.73 eV	VP: 70 mm FRZ: -141°F UEL: 7.1% LEL: 1.1%	Strong oxidizers, strong acids	Imp; KOH; GC/FID; II(4) [S141]
1158 68	1 ppm = 4.21 mg/m ³				Sp.Gr. 0.72 Class IB Flammable Liquid			
Dimethyl acetamide $CH_3CON(CH_3)_2$ 127-19-5 AB7700000	N,N-Dimethyl acetamide; DMAC	NIOSH/OSHA 10 ppm (35 mg/m ³) [skin]	400 ppm	Colorless liquid with a weak ammonia- or fish- like odor	MW: 87.1 BP: 329°F Sol: Miscible Fl.P(oc): 158°F IP 8.81 eV	VP: 2 mm FRZ: -4°F UEL(320°F): 11.5% LEL(212°F): 1.8%	Carbon tetrachloride, other halogenated compounds when in contact with iron	Si gel; Methanol; GC/FID; III [#2004]
	1 ppm = 3.62 mg/m ³				Sp.Gr: 0.94 Class IIIA Combustible Liquid			
Dimethylamine $(CH_3)_2NH$ 124-40-3 IP8750000	Dimethylamine (anhydrous), N-Methylmethanamine	NIOSH/OSHA 10 ppm (18 mg/m ³)	2000 ppm	Colorless gas with an ammonia- or fish-like odor. [Note: A liquid below 44°F Shipped as a liquefied compressed gas.]	MW: 45.1 BP: 44°F Sol(140°F): 24% Fl.P. NA (Gas) 20°F (Liquid) IP: 8.24 eV	VP: >1 atm FRZ: -134°F UEL: 14.4% LEL: 2.8%	Strong oxidizers, chlorine, mercury, acetaldehyde, fluoride, maleic anhydride	Si gel, H ₂ SO ₄ / Methanol; GC/FID; III [#2010]
1032 19	1 ppm = 1.87 mg/m ³				Sp.Gr: 0.67 (Liquid at 44°F) Class IA Flammable Liquid			
4-Dimethylamino- azobenzene $C_6H_5NNC_6H_4N(CH_3)_2$ 60-11-7 BX7350000	Butter yellow, DAB, p-Dimethylaminoazobenzene; N,N-Dimethyl-4-aminoazo- benzene, Methyl yellow	NIOSH Ca See Appendix A OSHA [1910.1015] See Appendix B	Ca	Yellow, leaf- shaped crystals.	MW: 225.3 BP: Sublimes Sol: Insoluble Fl.P. ? IP: ?	VP: ? MLT: 237°F UEL: ? LEL: ?	None reported	G-chrom P; 2-Propanol; GC/FID; II(4) [P&CAM #284]

Personal protection and sanitation (See Table 3)		Recommendations for respirator selection — maximum concentration for use (MUC) (See Table 4)	Health hazards				
			Route	Symptoms (See Table 5)	First aid (See Table 6)		Target organs (See Table 5)
Clothing: Goggles: Wash: Change: Remove: Provide:	Repeat Any poss (soln >5%) Prompt wet N.R. Immed wet (flamm) Eyewash (<5%)	NIOSH/OSHA 125 ppm: SA:CF ^c /PAPROV ^c 250 ppm: CCRFOV/GMFOV/SCBAF/SAF 1000 ppm: SAF-PD,PP §: SCBAF PD,PP/SAF-PD,PP ASCBA Escape: GMFOV/SCBAE	Ing Abs Ing Con	Nau, vomit; head; eye irrit, vis dist, pulm irrit	Eye: Skin: Breath: Swallow	Irr immed Water wash immed Resp support Medical attention immed	Resp sys, skin, eyes
Clothing: Goggles: Wash: Change: Remove: Provide:	Any poss Reason prob Immed contam N.R. Immed non-imperv contam Quick drench	NIOSH/OSHA 100 ppm: SA/SCBA 250 ppm: SA CF 400 ppm: SCBAF/SAF §: SCBAF:PD,PP/SAF:PD,PP ASCBA Escape: GMFOV/SCBAE	Inh Abs Ing Con	Jaun, liver damage; depres, lethargy, halu, delusions, irrit skin	Eye: Skin: Swallow	Irr immed Water flush immed Medical attention immed	Liver, skin
Clothing: Goggles: Wash: Change: Remove: Provide:	Any poss liq/Repeat soln Any poss Immed contam liq/ Prompt contam soln N.R. Immed wet (flamm) Liq. Eyewash, quick drench	NIOSH/OSHA 250 ppm: SA CF ^c 500 ppm: SCBAF/SAF 2000 ppm: SAF-PD,PP §: SCBAF PD,PP/SAF PD,PP ASCBA Escape: GMFS/SCBAE	Inh Ing Con	Irrit nose, throat sneezing, cough, dysp, pulm edema; conj; burns skin, muc memb; derm	Eye: Skin: Breath: Swallow:	Irr immed Water flush immed Resp support Medical attention immed	Resp sys, skin, eyes
Clothing: Goggles: Wash: Change: Remove: Provide:	Any poss Any poss Immed contam/daily After work if any poss contam Immed contam Eyewash, quick drench	NIOSH § SCBAF:PD,PP/SAF:PD,PP ASCBA Escape: HIEF/SCBAE	Inh Abs Ing Con	Enlarged liver, hepatic and renal dysfunction; contact derm; cough, wheez, difficulty breath; bloody sputum, bronchial secretions, frequent urination, hema, dysuria; [carc]	Eye: Skin: Breath: Swallow.	Irr immed Soap wash immed Resp support Medical attention immed	Liver, skin, bladder

4-Dimethylaminoazobenzene

Chemical name, structure/formula, CAS and RTECS Nos., and DOT ID and guide Nos.	Synonyms, trade names, and conversion factors	Exposure limits (TWA unless noted otherwise)	IDLH	Physical description	Chemical and physical properties		Incompatibilities and reactivities	Measurement method (See Table 1)
					MW, BP, SOL Fl.P, IP, Sp.Gr, flammability	VP, FRZ UEL, LEL		
Dimethylaniline <chem>C6H5N(CH3)2</chem> 121-69-7 BX4725000	N,N-Dimethylaniline; N,N-Dimethylbenzeneamine; N,N-Dimethylphenylamine	NIOSH/OSHA 5 ppm (25 mg/m ³) ST 10 ppm (50 mg/m ³) [skin]	100 ppm	Pale yellow, oily liquid with an amine-like odor. [Note: A solid below 36°F.]	MW: 121.2 BP: 378°F Sol: 2% Fl.P: 142°F IP: 7.14 eV	VP(85°F): 1 mm FRZ: 36°F UEL: ? LEL: ?	Strong oxidizers, strong acids, benzoyl peroxide	Si gel; Ethanol; GC/FID; III [#2002, Aromatic Amines]
2253 57	1 ppm = 5.04 mg/m ³				Sp.Gr: 0.96 Class IIIA Combustible Liquid			
Dimethyl 1,2-dibromo- 2,2-dichloroethyl phosphate <chem>C4H7O4PBr2Cl2</chem> 300-76-5 TB9450000	Dibrom; 1,2-Dibromo-2,2-dichloro- ethyl dimethyl phosphate; Naled [(CH ₃ O) ₂ P(O)OC(Br)- H ₂ CCl ₂]	NIOSH/OSHA 3 mg/m ³ [skin]	1800 mg/m ³	Colorless to white solid or straw- colored liquid (above 80°F) with a slightly pungent odor.	MW: 380.8 BP: Decomposes Sol: Insoluble Fl.P: NA IP: ?	VP: 0.0002 mm MLT: 80°F UEL: NA LEL: NA	Strong oxidizers, acids [Note: Corrosive to metals.]	None available
2783 55	1 ppm = 15.83 mg/m ³				Sp.Gr(77°F): 1.96 Noncombustible Solid			
Dimethylformamide <chem>HCON(CH3)2</chem> 68-12-2 LQ2100000	Dimethyl formamide; N,N-Dimethylformamide; DMF	NIOSH/OSHA 10 ppm (30 mg/m ³) [skin]	3500 ppm	Colorless to pale- yellow liquid with a faint, amine- like odor.	MW: 73.1 BP: 307°F Sol: Miscible Fl.P: 136°F IP: 9.12 eV	VP(77°F): 4 mm FRZ: -78°F UEL: 15.2% LEL(212°F): 2.2%	Carbon tetrachloride; other halogenated compounds when in contact with iron; strong oxidizers; alkyl aluminums; inorganic nitrates	Si gel; Methanol; GC/FID; III [#2004]
2265 26	1 ppm = 3.04 mg/m ³				Sp.Gr: 0.95 Class IIIA Combustible Liquid			
1,1-Dimethylhydrazine <chem>(CH3)2NNH2</chem> 57-14-7 MV2450000	Dimazine, DMH, UDMH, Unsymmetrical dimethyl- hydrazine	NIOSH Ca See Appendix A C 0.06 ppm (0.15 mg/m ³) [2-hr] OSHA 0.5 ppm (1 mg/m ³) [skin]	Ca [50 ppm] ACGIH A2	Colorless liquid with an ammonia- or fish-like odor.	MW: 60.1 BP: 147°F Sol: Miscible Fl.P: 5°F IP: 8.05 eV	VP(77°F): 157 mm FRZ: -72°F UEL: 95% LEL: 2%	Oxidizers, halogens, metallic mercury, fuming nitric acid, hydrogen peroxide [Note: May ignite SPONTANEOUSLY in contact with oxidizers.]	Bub; Reagent; Vis; II(3) [#S143]
1163 28	1 ppm = 2.50 mg/m ³				Sp.Gr: 0.79 Class IB Flammable Liquid			

Personal protection and sanitation (See Table 3)		Recommendations for respirator selection — maximum concentration for use (MUC) (See Table 4)	Health hazards				
			Route	Symptoms (See Table 5)	First aid (See Table 6)		Target organs (See Table 5)
Clothing: Goggles: Wash: Change: Remove: Provide:	Reason prob Reason prob Immed contam N R. Immed non-imperv contam Quick drench	NIOSH/OSHA 50 ppm: SA/SCBA 100 ppm: SA/CF/SCBAF/SAF §. SCBAF/PD,PP/SAF/PD,PP:ASCBA Escape: GMFOV/SCBAE	Inh Abs Ing Con	Anoxia symptoms: cyan, weak, dizz, ataxia	Eye: Skin Breath: Swallow:	Irr immed Soap wash immed Resp support Medical attention immed	Blood, kidneys, liver, CVS
Clothing: Goggles: Wash: Change: Remove: Provide	Reason prob Any poss Immed contam After work if reason prob contam Immed non-imperv contam Eyewash	NIOSH/OSHA 30 mg/m ³ : DMFu/SA/HiE/SCBA 75 mg/m ³ : PAPRDMFu/SA:CF 150 mg/m ³ : HiEF/PAPRTHiE/SAT/CF/ SCBAF/SAF 1800 mg/m ³ : SA/PD,PP §. SCBAF/PD,PP/SAF/PD,PP:ASCBA Escape: HiEF/SCBAE	Inh Abs Ing Con	Miosis, lac, head; tight chest, wheez, lar spasm, salv, cyan, anor, nau. vomit, abdom cramp, diarr; weak twitch para: gidd, ataxia, convuls, low BP, card irregularities irrit skin, eyes	Eye: Skin Breath Swallow.	Irr immed Soap wash immed Resp support Medical attention immed	Resp sys, CNS, CVS, skin, eyes, blood chol
Clothing: Goggles: Wash: Change: Remove:	Repeat Reason prob Prompt contam N.R. Prompt non-imperv contam	NIOSH/OSHA 100 ppm: SA*/SCBA* 250 ppm: SA/CF* 500 ppm: SCBAF/SAF/SAT/CF* 3500 ppm: SAF/PD,PP §: SCBAF/PD,PP/SAF/PD,PP:ASCBA Escape: GMFOV/SCBAE	Inh Abs Ing Con	Nau, vomit, colic; liver damage, hepatomegaly; high BP; face flush; derm, in animals: kidney, heart damage	Eye: Skin: Breath: Swallow	Irr immed Water flush prompt Resp support Medical attention immed	Liver, kidneys, CVS, skin
Clothing: Goggles: Wash: Change: Remove: Provide:	Any poss Any poss Immed contam N.R. Immed wet (flamm) Eyewash, quick drench	NIOSH Y: SCBAF/PD,PP/SAF/PD,PP:ASCBA Escape: GMFS/SCBAE	Inh Abs Ing Con	Irrit eyes, skin; choking, chest pain, dysp; lethargy; nau; anoxia, convuls; liver inj; [carc]	Eye: Skin: Breath: Swallow:	Irr immed Water flush immed Resp support Medical attention immed	CNS, liver, GI tract blood, resp sys, eyes, skin

1,1-Dimethylhydrazine

Chemical name, structure/formula, CAS and RTECS Nos., and DOT ID and guide Nos.	Synonyms, trade names, and conversion factors	Exposure limits (TWA unless noted otherwise)	IDLH	Physical description	Chemical and physical properties		Incompatibilities and reactivities	Measurement method (See Table 1)
					MW, BP, SOL Fl.P, IP, Sp.Gr, flammability	VP, FRZ UEL, LEL		
Dimethylphthalate $C_6H_4(COOCH_3)_2$ 131-11-3 TI1575000	Dimethyl ester of 1,2- benzenedicarboxylic acid, DMP	NIOSH/OSHA 5 mg/m ³	9300 mg/m ³	Colorless, oily liquid with a slight, aromatic odor. [Note: A solid below 42°F.]	MW. 194.2 BP. 543°F Sol. 0.4% Fl.P: 295°F IP 9.64 eV	VP 0.01 mm FRZ: 42°F UEL: ? LEL(358°F) 0.9%	Nitrates; strong oxidizers, alkalis & acids	None available
	1 ppm = 8.07 mg/m ³				Sp Gr. 1.19 Class IIIB Combustible Liquid			
Dimethyl sulfate $(CH_3)_2SO_4$ 77-78-1 WS8225000	Dimethyl ester of sulfuric acid, Dimethylsulfate, Methyl sulfate	NIOSH Ca See Appendix A 0.1 ppm (0.5 mg/m ³) [skin] OSHA 0.1 ppm (0.5 mg/m ³) [skin]	Ca [10 ppm] ACGIH A2	Colorless, oily liquid with a faint, onion-like odor	MW: 126.1 BP: 370°F (Decomposes) Sol(64°F): 3% Fl.P: 182°F IP: ?	VP 0.1 mm FRZ: -25°F UEL: ? LEL: ?	Strong oxidizers, ammonia solutions [Note: Decomposes in water to sulfuric acid, corrosive to metals.]	Porapak-P; Diethyl ether; GC/EConD, III; [#2524]
1595 57	1 ppm = 5.24 mg/m ³				Sp Gr: 1.33 Class IIIA Combustible Liquid			
Dinitrobenzene (all isomers) $C_6H_4(NO_2)_2$ o: 528-29-0 CZ7450000 m: 99-65-0 CZ7350000 p: 100-25-4 CZ7525000 1597 56	o: ortho-Dinitrobenzene; 1,2-Dinitrobenzene m: meta-Dinitrobenzene; 1,3-Dinitrobenzene p: para-Nitrobenzene, 1,4-Dinitrobenzene	NIOSH/OSHA 1 mg/m ³ [skin]	200 mg/m ³	Pale white or yellow solids.	MW 168.1 BP. 606/572/ 570°F Sol. 0.05/ 0.02/0.01% Fl.P: 302/ 302°F/? IP. 10.71/10.43/10.50 eV Sp.Gr(64°F): 1.57/1.58/1.63 Combustible Solids	VP: ?/?/? MLT: 244/ 192/343°F UEL: ?/?/? LEL: ?/?/?	Strong oxidizers, caustics, metals such as tin & zinc [Note: Prolonged exposure to fire and heat may result in an explosion due to SPONTANEOUS decomposition.]	Filter/Bub; Methanol; HPLC/UVD, II(4) [#S214]
Dinitro-o-cresol $CH_3C_6H_2OH(NO_2)_2$ 534-52-1 GO9625000	4,6-Dinitro-o-cresol; 3,5-Dinitro-2-hydroxy- toluene, 4,6-Dinitro-2-methyl phenol, DN; DNOC	NIOSH/OSHA 0.2 mg/m ³ [skin]	5 mg/m ³	Yellow, odorless solid. [insecticide]	MW: 198.1 BP: 594°F Sol: 0.01% Fl.P. NA IP: ?	VP. 0.00005 mm MLT. 190°F UEL. NA LEL. NA	Strong oxidizers	Filter/Bub; 2-Propanol; HPLC/UVD, II(5) [#S166]
1598 53					Sp.Gr. 1.1 (estimated) Noncombustible Solid			

Personal protection and sanitation (See Table 3)		Recommendations for respirator selection — maximum concentration for use (MUC) (See Table 4)	Health hazards				
			Route	Symptoms (See Table 5)	First aid (See Table 6)		Target organs (See Table 5)
Clothing:	N R.	NIOSH/OSHA	Inh	Irrit upper resp sys.	Eye:	Irr prompt	Resp sys, GI
Goggles:	Reason prob	50 mg/m ³ . DMF	Ing	stomach pain	Skin:	Wash regularly	tract
Wash:	N R	125 mg/m ³ . PAPRDM ⁵ /SA CF ⁶	Con		Breath:	Resp support	
Change:	N R	250 mg/m ³ . HIEF/SCBAF/SAF			Swallow	Medical attention	
Remove:	N R	9300 mg/m ³ . SAF.PD,PP				immed	
		§. SCBAF.PD,PP/SAF.PD,PP.ASCBA					
		Escape: HIEF/SCBAE					
Clothing:	Any poss	NIOSH	Inh	Irrit eyes, nose; head,	Eye:	Irr immed	Eyes, resp sys,
Goggles:	Any poss	¥. SCBAF:PD,PP/SAF:PD,PP.ASCBA	Abs	gidd; conj irrit, photo,	Skin:	Water flush immed	liver, kidneys,
Wash:	Immed contam	Escape: GMFS/SCBAE	Ing	periorb edema; dysphonia,	Breath:	Resp support	CNS, skin
Change:	N R.		Con	aphonia, dysphagia,	Swallow:	Medical attention	
Remove:	Immed non-imperv contam			productive cough; chest		immed	
Provide:	Eyewash, quick drench			pain; dysp, cyan;			
				vomit, diarr; dysuria;			
				analgesia, fever, ict;			
				album, hema, skin, eye			
				burns, delirium, [carc]			
Clothing:	Reason prob	NIOSH/OSHA	Inh	Anoxia, cyan; vis dist,	Eye:	Irr immed	Blood, liver,
Goggles:	Reason prob	5 mg/m ³ . DM	Abs	central scotomas; bad	Skin:	Soap wash immed	CVS, eyes, CNS
Wash:	Immed wet/Prompt contam	10 mg/m ³ . DMXSQ/SA/HIE/SCBA	Ing	taste, burning mouth, dry	Breath:	Resp support	
Change:	After work if reason	25 mg/m ³ . PAPRDM/SA CF	Con	throat, thirst, yellowing	Swallow:	Medical attention	
	prob contam	50 mg/m ³ . HIEF/PAPRTHIE/SCBAF/		hair, eyes, skin, anemia,		immed	
	Immed non-imperv wet/	SAF/SAT:CF		liver damage			
Remove:	Prompt non-imperv	200 mg/m ³ . SA:PD,PP					
	contam	§. SCBAF:PD,PP/SAF:PD,PP.ASCBA					
Provide:	Quick drench	Escape: HIEF/SCBAE					
Clothing:	Reason prob	NIOSH/OSHA	Inh	Sense of well being,	Eye.	Irr immed	CVS, endocrine
Goggles:	Reason prob	2 mg/m ³ . DMF	Abs	head, fever, lass, profuse	Skin:	Soap wash immed	sys, eyes
Wash:	Prompt contam/daily	5 mg/m ³ . PAPRDM ⁵ /SA CF ⁶ /HIEF/	Ing	sweat, excess thirst,	Breath	Resp support	
Change:	After work if reason	SCBAF/SAF	Con	tacar, hyperpnea, cough,	Swallow.	Medical attention	
	prob contam	§. SCBAF.PD,PP/SAF.PD,PP.ASCBA		short breath, coma		immed	
Remove:	Prompt non-imperv	Escape: HIEF/SCBAE					
	contam						

Dinitro-o-cresol

Chemical name, structure/formula, CAS and RTECS Nos., and DOT ID and guide Nos.	Synonyms, trade names, and conversion factors	Exposure limits (TWA unless noted otherwise)	IDLH	Physical description	Chemical and physical properties		Incompatibilities and reactivities	Measurement method (See Table 1)
					MW, BP, SOL Fl.P, IP, Sp.Gr, flammability	VP, FRZ UEL, LEL		
Dinitrotoluene $C_6H_3CH_3(NO_2)_2$ 25321-14-6 XT1300000 1600 56 (liquid) 2038 56 (solid)	Dinitrotolual, DNT, Methyldinitrobenzene	NIOSH Ca See Appendix A 1.5 mg/m ³ [skin] OSHA 1.5 mg/m ³ [skin]	Ca [200 mg/m ³]	Orange-yellow crystalline solid with a character- istic odor [Note. Often shipped molten.]	MW 182.2 BP 572°F Sol. Insoluble Fl.P 404°F IP ? Sp Gr 1.32 Combustible Solid, but difficult to ignite.	VP: 1 mm MLT: 158°F UEL ? LEL ?	Strong oxidizers, caustics, metals such as tin & zinc [Note: Commercial grades will decompose at 482°F, with self-sustaining decomposition at 536°F.]	None available
Di-sec octyl phthalate $C_{24}H_{38}O_4$ 117-81-7 T10350000	DEHP, DOP, bis-(2-Ethylhexyl) phthalate, di(2-Ethylhexyl) phthalate, Octyl phthalate [$C_6H_4(COOCH_2CH$ (C_2H_5) C_4H_9) ₂] 1 ppm = 16.23 mg/m ³	NIOSH Ca See Appendix A 5 mg/m ³ ST 10 mg/m ³ OSHA 5 mg/m ³ ST 10 mg/m ³	Ca [Unknown]	Colorless, oily liquid with a slight odor.	MW: 390.5 BP 727°F Sol. Insoluble Fl P (oc): 420°F IP ? Sp Gr: 0.99 Class IIIB Combustible Liquid	VP <0.01 mm FRZ: -58°F UEL ? LEL (474°F): 0.3%	Nitrates: strong oxidizers, acids & alkalis	Filter; CS ₂ ; GC/FID, III [#5020, di(2-Ethyl- hexyl) phthalate]
Dioxane $C_4H_8O_2$ 123-91-1 JG8225000 1165 26	Diethylene dioxide, Diethylene ether, Dioxan, p Dioxane, 1,4-Dioxane 1 ppm = 3.66 mg/m ³	NIOSH Ca See Appendix A C 1 ppm (3.6 mg/m ³) [30-min] OSHA 25 ppm (90 mg/m ³) [skin]	Ca [2000 ppm]	Colorless liquid or solid (below 53°F) with a mild ether-like odor.	MW. 88.1 BP: 214°F Sol. Miscible Fl P 55°F IP: 9.13 eV Sp.Gr: 1.03 Class IB Flammable Liquid	VP: 29 mm FRZ: 53°F UEL 22% LEL 2.0%	Strong oxidizers, decaborane, triethynyl aluminum	Char, CS ₂ ; GC/FID, III [#1602]
Diphenyl $C_6H_5C_6H_5$ 92-52-4 DU8050000	Biphenyl, Phenyl benzene	NIOSH/OSHA 1 mg/m ³ (0.2 ppm)	300 mg/m ³	Colorless to pale- yellow solid with a pleasant, characteristic odor	MW. 154.2 BP: 489°F Sol: Insoluble Fl.P: 235°F IP: 7.95 eV Sp Gr. 1.04 Combustible Solid	VP (160°F): 1 mm MLT: 156°F UEL (311°F): 5.8% LEL (232°F): 0.6%	Oxidizers	Tenax GC; CCl ₄ ; GC/FID; III [#2530, Biphenyl]

Personal protection and sanitation (See Table 3)		Recommendations for respirator selection — maximum concentration for use (MUC) (See Table 4)	Health hazards				
			Route	Symptoms (See Table 5)	First aid (See Table 6)		Target organs (See Table 5)
Clothing:	Any poss molt/Repeat liq	NIOSH Y: SCBAF:PD,PP/SAF:PD,PP:ASCBA Escape: GMFOVHiE/SCBAE	Inh Abs Ing Con	Anoxia, cyan, anemia, jaun; [carc]	Eye: Skin: Breath. Swallow	Irr immed Soap wash immed Resp support Medical attention immed	Blood, liver, CVS
Goggles:	Any poss molt						
Wash:	Immed wet/Prompt contam/daily						
Change:	After if reason prob contam						
Remove:	Immed non-imperv wet/Prompt non-imperv contam						
Provide:	Quick drench						
Clothing:	N.R	NIOSH Y: SCBAF:PD,PP/SAF:PD,PP:ASCBA Escape: HiEF/SCBAE	Inh Con Ing	Irrit eyes, muc memb, [carc]	Eye: Skin: Breath: Swallow	Irr immed (Not a dermal hazard) Resp support Medical attention immed	Eyes, upper resp sys, GI tract
Goggles:	N.R						
Wash:	N.R						
Change:	N.R						
Remove:	N.R						
Clothing:	Repeat	NIOSH Y: SCBAF:PD,PP/SAF:PD,PP:ASCBA Escape: GMFOV/SCBAE	Inh Abs Ing Con	Drow, head, nau, vomit, irrit eyes, nose, throat, liver damage; kidney failure, skin irrit, [carc]	Eye: Skin: Breath. Swallow.	Irr immed Water wash prompt Resp support Medical attention immed	Liver, kidney, skin, eyes
Goggles:	Reason prob						
Wash:	Prompt contam						
Change:	N.R						
Remove:	Immed wet (flamm)						
Clothing:	Repeat	NIOSH/OSHA 10 mg/m ³ : CCROVDM/SA/SCBA 25 mg/m ³ : SA:CF/PAPROVDM* 50 mg/m ³ : CCRFOVHiE/SCBAF/SAF/GMFOVHiE/PAPRTOVHiE* 300 mg/m ³ : SAF:PD,PP §: SCBAF:PD,PP/SAF:PD,PP:ASCBA Escape: GMFOVHiE/SCBAE	Inh Abs Ing Con	Irrit throat, eyes, head, nau, fig, numb limbs; liver damage	Eye: Skin: Breath. Swallow	Irr immed Water flush immed Resp support Medical attention immed	Liver, skin, CNS, upper resp sys, eyes
Goggles:	Any poss molt/Repeat otherwise						
Wash:	Prompt contam						
Change:	After work if reason prob contam						
Remove:	Prompt non-imperv contam						

Diphenyl

Chemical name, structure/formula, CAS and RTECS Nos., and DOT ID and guide Nos.	Synonyms, trade names, and conversion factors	Exposure limits (TWA unless noted otherwise)	IDLH	Physical description	Chemical and physical properties		Incompatibilities and reactivities	Measurement method (See Table 1)
					MW, BP, SOL Fl.P, IP, Sp.Gr, flammability	VP, FRZ UEL, LEL		
Dipropylene glycol methyl ether <chem>CH3OC3H6OC3H6OH</chem> 34590-94-8 JM1575000	Dipropylene glycol monomethyl ether, Dowanol® 50B	NIOSH/OSHA 100 ppm (600 mg/m³) ST 150 ppm (900 mg/m³) [skin]	Unknown	Colorless liquid with a mild, ether-like odor.	MW: 148.2 BP: 374°F Sol: Miscible Fl.P. 180°F IP: ?	VP(79°F): 0.4 mm FRZ: -112°F UEL: ? LEL: ?	Strong oxidizers	Char, CS₂, GC/FID, II(2) [#S69]
1 ppm = 6.16 mg/m³					Sp.Gr. 0.95 Class IIIA Combustible Liquid			
Endrin <chem>C12H8Cl6O</chem> 72-20-8 I01575000	1,2,3,4,10,10-Hexachloro- 6,7-epoxy-1,4,4a,5,6,7, 8,8a-octahydro-1,4-endo- endo-5,8-dimethano- naphthalene, Hexadrin	NIOSH/OSHA 0.1 mg/m³ [skin]	2000 mg/m³	Colorless to tan crystalline solid with a mild, chemical odor. [insecticide]	MW: 380.9 BP: Decomposes Sol: Insoluble Fl.P. NA IP: ?	VP: Low BP: 392°F (Decomposes) UEL: NA LEL: NA	Strong oxidizers, strong acids, parathion	Filter/ Chrom-102, Toluene; GC/ECD, III [#5519]
2761 55					Sp.Gr. 1.70 Noncombustible Solid, but may be dissolved in flammable liquids			
Epichlorohydrin <chem>C3H5OCl</chem> 106-89-8 TX4900000	1-Chloro-2,3-epoxypropane, 2-Chloropropylene oxide, gamma-Chloropropylene oxide	NIOSH Ca See Appendix A Reduce exposure to lowest feasible concentration. OSHA 2 ppm (8 mg/m³) [skin]	Ca [250 ppm]	Colorless liquid with a slightly irritating, chloroform-like odor	MW: 92.5 BP: 242°F Sol: 7% Fl.P. 93°F IP: 10.60 eV	VP: 13 mm FRZ: -54°F UEL: 21.0% LEL: 3.8%	Strong oxidizers, strong acids, certain salts, caustics zinc, aluminum, water [Note: May polymerize in presence of strong acids and bases, particularly when hot.]	Char CS₂; GC/FID; III [#1010]
2023 30					Sp.Gr. 1.18 Class IC Flammable Liquid			
EPN <chem>C3H5O(C6H5)P(S)-OC6H4NO2</chem> 2104-64-5 TB1925000	O-Ethyl O-P-nitrophenyl benzenephosphonothioate, O-Ethyl O-P-nitrophenyl benzenethiophosphonate	NIOSH/OSHA 0.5 mg/m³ [skin]	50 mg/m³	Yellow solid with an aromatic odor. [Note: A brown liquid above 97°F.] [pesticide]	MW: 323.3 BP: ? Sol: Insoluble Fl.P. NA IP: ?	VP(212°F): 0.0003 mm MLT: 97°F UEL: NA LEL: NA	Strong oxidizers	Filter, Isooctane, GC/FPD, III [#5012]
					Sp.Gr.(77°F) 1.27 Noncombustible Solid			

Personal protection and sanitation (See Table 3)		Recommendations for respirator selection — maximum concentration for use (MUC) (See Table 4)	Health hazards				
			Route	Symptoms (See Table 5)	First aid (See Table 6)		Target organs (See Table 5)
Clothing:	N.R.	NIOSH/OSHA	Inh	Irrit eyes, nose, weak, li-	Eye:	Irr immed	Resp sys eyes
Goggles:	N.R.	1000 ppm: SA/SCBA	Abs	head, head	Skin:	Water wash prompt	
Wash:	N.R.	2500 ppm: SA CF	Ing		Breath:	Resp support	
Change:	N.R.	5000 ppm: SCBAF/SAF/SAT CF	Con		Swallow:	Medical attention	
Remove:	N.R.	§: SCBAF PD,PP/SAF:PD,PP:ASCBA				immed	
		Escape: GMFOVHiE/SCBAE					
Clothing:	Any poss	NIOSH/OSHA	Inh	Epileptiform convuls;	Eye:	Irr immed	CNS, liver
Goggles:	Any poss	1 mg/m ³ : CCROVDMFu/SA/SCBA	Abs	stupor, head, dizz, abdom	Skin:	Soap wash immed	
Wash:	Immed contam	2.5 mg/m ³ : SA CF/PAPROVDMFu	Ing	discomfort, nau, vomit;	Breath:	Resp support	
Change:	After work if any poss	5 mg/m ³ : CCRFOVHiE/SCBAF/SAF/	Con	insom, aggressiveness,	Swallow:	Medical attention	
	contam	GMFOVHiE/PAPRTOVHiE/		conf; lethargy, weak; anor;		immed	
		SAT CF		in animals: liver damage			
Remove:	Immed non-imperv contam	100 mg/m ³ : SA,PD,PP					
Provide:	Eyewash, quick drench	200 mg/m ³ : SAF,PD,PP					
		§: SCBAF PD,PP/SAF:PD,PP:ASCBA					
		Escape: GMFOVHiE/SCBAE					
Clothing:	Any poss	NIOSH	Inh	Nau, vomit; abdom pain,	Eye:	Irr immed	Resp sys, skin,
Goggles:	Any poss	¥: SCBAF PD,PP/SAF PD,PP:ASCBA	Abs	resp distress, cough;	Skin:	Soap wash immed	kidneys
Wash:	Immed contam	Escape: GMFOVAG/SCBAE	Ing	cyan, irrit eyes, skin with	Breath:	Resp support	
Change:	N.R.		Con	deep pain, [carc]	Swallow	Medical attention	
Remove:	Immed non-imperv contam					immed	
Provide:	Eyewash, quick drench						
Clothing:	Any poss	NIOSH/OSHA	Inh	Miosis, lac, rhin; head,	Eye	Irr immed	Resp sys, CVS,
Goggles:	Any poss	5 mg/m ³ : SA/SCBA	Abs	tight chest, wheez, lar	Skin:	Soap wash immed	CNS, eyes, skin,
Wash:	Immed contam	12.5 mg/m ³ : SA:CF	Ing	spasm; salv, cyan, anor,	Breath:	Resp support	blood chol
Change:	After work if any poss	25 mg/m ³ : SCBAF/SAF/SAT CF	Con	nau, abdom cramp, diarr;	Swallow:	Medical attention	
	contam	50 mg/m ³ : SA,PD,PP		para, convuls; low BP;		immed	
Remove:	Immed non-imperv contam	§: SCBAF PD,PP/SAF:PD,PP:ASCBA		card irregularities; irrit			
Provide:	Eyewash, quick drench	Escape: GMFOVHiE/SCBAE		skin, eyes			