

Safety Data Sheet



Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

- Product Name** • 39 Components (1 ppm), Nitrogen (Balance)
- Synonyms** • TO-14 1 ppm mix
- Product Code** • 90103

1.2 Relevant identified uses of the substance or mixture and uses advised against

- Relevant identified use(s)** • Calibration standard

1.3 Details of the supplier of the safety data sheet

- Manufacturer** • Air Liquide
2700 Post Oak Blvd.
Houston, TX 77056
United States
www.us.airliquide.com
sds@airliquide.com
- Telephone (Technical)** • 713-896-2896
- Telephone (Technical)** • 800-819-1704

1.4 Emergency telephone number

- Manufacturer** • 800-424-9300 - CHEMTREC
- Manufacturer** • +1 703-527-3887 - Outside United States

Section 2: Hazards Identification

EU/EEC

According to EU Directive 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]
According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

- CLP** • Compressed Gas - H280
- DSD/DPD** • Not classified - Classification criteria not met

2.2 Label Elements

CLP

WARNING



Hazard statements • H280 - Contains gas under pressure; may explode if heated

Precautionary statements

Storage/Disposal ● P403 - Store in a well-ventilated place.

DSD/DPD

Risk phrases ● No label element(s) required

2.3 Other Hazards

CLP

- This material is a simple asphyxiant. May displace or reduce oxygen available for breathing especially in confined spaces. According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

DSD/DPD

- This material is a simple asphyxiant. May displace or reduce oxygen available for breathing especially in confined spaces. This preparation is not considered dangerous according to European Directive 1999/45/EC.

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012

- Compressed Gas - H280
Simple Asphyxiant

2.2 Label elements

OSHA HCS 2012

WARNING



Hazard statements ● Contains gas under pressure; may explode if heated - H280
May displace oxygen and cause rapid suffocation.

Precautionary statements

Storage/Disposal ● Store in a well-ventilated place. - P403

2.3 Other hazards

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada

According to WHMIS

2.1 Classification of the substance or mixture

WHMIS

- Compressed Gas - A

2.2 Label elements

WHMIS



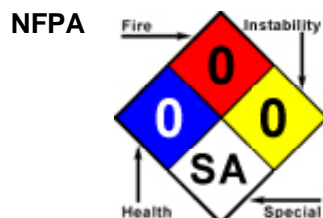
● Compressed Gas - A

2.3 Other hazards

WHMIS

- This material is a simple asphyxiant. May displace or reduce oxygen available for breathing especially in confined spaces. In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

2.4 Other information



Section 3 - Composition/Information on Ingredients

3.1 Substances

- Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

3.2 Mixtures

Composition				
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive
Vinyl Chloride	CAS: 75-01-4 EC Number: 200-831-0	1ppm	Ingestion/Oral-Rat LD50 • 500 mg/kg Inhalation-Rat LC50 • 18 pph 15 Minute(s)	EU DSD/DPD: Annex I: F+; R12 Carc.Cat.1; R45 EU CLP: Annex VI: Press Gas - Comp., H280; Flam. Gas 1, H220; Carc. 1A, H350 OSHA HCS 2012: Press Gas - Comp.; Flam. Gas 1; Carc. 1A; Repr. 1B; Simp. Asphyx.; Acute Tox. 4 (Oral)
Toluene	CAS: 108-88-3 EC Number: 203-625-9	1ppm	Ingestion/Oral-Rat LD50 • 636 mg/kg Inhalation-Rat LC50 • 49 g/m ³ 4 Hour(s) Skin-Rabbit LD50 • 14100 µL/kg	EU DSD/DPD: Annex I: F; R11 Xi; R38 Xn; R48/20-65 Repr.Cat.3; R63 R67 EU CLP: Annex VI: Flam. Liq. 2, H225; Repr. 2, H361d; Asp. Tox. 1, H304; STOT RE 2, H373; Skin Irrit. 2, H315; STOT SE 3: Narc., H336 OSHA HCS 2012: Flam. Liq. 2; Repr. 2; Acute Tox. 4 (Oral); STOT SE 3: Narc.; Asp. Tox. 1; Eye Irrit. 2B
p-Xylene	CAS: 106-42-3 EC Number: 203-396-5	1ppm	Inhalation-Rat LC50 • 4550 ppm 4 Hour(s) Ingestion/Oral-Rat LD50 • 3910 mg/kg	EU DSD/DPD: Annex I: R10 Xn; R20/21 Xi; R38 EU CLP: Annex VI: Flam. Liq. 3, H226; Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Irrit. 2, H315 OSHA HCS 2012: Flam. Liq. 3; STOT SE 3: Narc. & Resp. Irrit.; Eye Irrit. 2A; Skin Irrit. 2; Repr. 2, Acute Tox. 4 (Inh)
Propene, 1,3-dichloro-, (Z)-	CAS: 10061-01-5 EC Number: 233-195-8	1ppm	NDA	EU DSD/DPD: Annex I: R10 Xn; R20-65 T; R24/25 Xi; R36/37/38 R43 N; R50-53 EU CLP: Annex VI: Flam. Liq. 3, H226; Acute Tox. 3, H301; Acute Tox. 3, H331; Acute Tox. 4, H311; Asp. Tox. 1, H304; Eye Irrit. 2, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 OSHA HCS 2012: Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3: Resp. Irrit.; STOT SE 3: Narc.
Propene, 1,3-dichloro-, (E)-	CAS: 10061-02-6	1ppm	NDA	EU DSD/DPD: Data lacking EU CLP: Data lacking OSHA HCS 2012: Data lacking

Propane, 1,2-dichloro-	CAS: 78-87-5 EC Number: 201-152-2	1ppm	Inhalation-Rat LC50 • 300 ppm 8 Hour(s) Ingestion/Oral-Rat LD50 • 1900 mg/kg Skin-Rabbit LD50 • 8750 mg/kg	EU DSD/DPD: Annex I: F; R11 Xn; R20/22 EU CLP: Annex VI: Flam. Liq. 2, H225; Acute Tox. 4, H302; Acute Tox. 4, H332 OSHA HCS 2012: Flam. Liq. 2; Acute Tox. 4 (Oral); Eye Irrit. 2B; Skin Irrit. 2; STOT RE 1 (Kidney, Liver)
o-Xylene	CAS: 95-47-6 EC Number: 202-422-2	1ppm	Ingestion/Oral-Rat LD50 • 3567 mg/kg	EU DSD/DPD: Annex I: R10 Xn; R20/21 Xi; R38 EU CLP: Annex VI: Flam. Liq. 3, H226; Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Irrit. 2, H315 OSHA HCS 2012: Flam. Liq. 3; Eye Irrit. 2A
m-Xylene	CAS: 108-38-3 EC Number: 203-576-3	1ppm	Skin-Rabbit LD50 • 14100 µL/kg Ingestion/Oral-Rat LD50 • 4988 mg/kg	EU DSD/DPD: Annex I: R10 Xn; R20/21 Xi; R38 EU CLP: Annex VI: Flam. Liq. 3, H226; Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Irrit. 2, H315 OSHA HCS 2012: Flam. Liq. 3; Eye Irrit. 2; Skin Irrit. 2
Methane, trichlorofluoro-	CAS: 75-69-4 EINECS: 200-892-3	1ppm	Inhalation-Rat LC50 • 13 pph 15 Minute(s)	EU DSD/DPD: Self Classified: N, R59 EU CLP: Self Classified: Press. Gas - Liq., H280; Ozone 1, H420 OSHA HCS 2012: Press Gas - Liq.; STOT RE 2 (Liver, Lung); Simp. Asphyx.; HNOC(Health)- Frostbite
Methane, dichlorodifluoro-	CAS: 75-71-8 EINECS: 200-893-9	1ppm	NDA	EU DSD/DPD: Self Classified: N, R59 Xn, R67 EU CLP: Self Classified: Press. Gas - Liq., H280; STOT SE 3: Narc., H336; Ozone 1, H420 OSHA HCS 2012: Press Gas - Liq.; Simp. Asphyx.
Methane, chloro-	CAS: 74-87-3 EC Number: 200-817-4	1ppm	Ingestion/Oral-Rat LD50 • 1800 mg/kg Inhalation-Rat LC50 • 5300 mg/m ³ 4 Hour(s) Inhalation-Rat LC50 • 4900 mg/m ³	EU DSD/DPD: Annex I: F+; R12 Carc.Cat.3; R40 Xn; R48/20 EU CLP: Annex VI: Flam. Gas 1, H220; Press. Gas - Comp., H280; Carc. 2, H351; STOT RE 2, H373 OSHA HCS 2012: Flam. Gas 1; Press. Gas - Comp.; Acute Tox. 4 (Orl, Inhl); Repr. 2; STOT RE 1 (Liver, Kidney)
Methane, bromo-	CAS: 74-83-9 EC Number: 200-813-2	1ppm	Ingestion/Oral-Rat LD50 • 214 mg/kg Inhalation-Rat LC50 • 302 ppm 8 Hour(s)	EU DSD/DPD: Annex I: T; R23/25 Xi; R36/37/38 Xn; R48/20 N; R50 N; R59 Muta.Cat.3; R68 EU CLP: Annex VI: Press. Gas - Comp., H280; Muta. 2; H341 Acute Tox. 3; H331 Acute Tox. 3, H301; STOT RE 2, H373; Eye Irrit. 2, H319; STOT SE 3, H335; Skin Irrit. 2, H335; Aquatic Acute 1, H400; Ozone 1, H420 OSHA HCS 2012: Acute Tox. 3 (Oral); Skin Irrit. 2; Eye Irrit. 2; STOT SE 3: Resp. Irrit.; STOT RE 2 (Inhalation, Kidney); Muta. 2 (Inhalation)
Ethylene, trichloro-	CAS: 79-01-6 EC Number: 201-167-4	1ppm	Skin-Rabbit LD50 • >20 g/kg Inhalation-Rat LC50 • 140700 mg/m ³ 1 Hour (s)	EU DSD/DPD: Annex I: Xi; R36/38 Carc.Cat.2; R45 R52-53 R67 Muta.Cat.3; R68 EU CLP: Annex VI: Carc. 1B, H350; Muta. 2, H341; Eye Irrit. 2, H319; Skin Irrit. 2, H315; STOT SE 3, H336; Aquatic Chronic 3, H412 OSHA HCS 2012: Eye Irrit. 2; Skin Irrit. 2; Carc. 1B; STOT SE 3: Narc.; Muta. 2
Ethylene, tetrachloro-	CAS: 127-18-4 EC Number: 204-825-9	1ppm	Ingestion/Oral-Rat LD50 • 2629 mg/kg Inhalation-Rat LC50 • 34200 mg/m ³ 8 Hour (s)	EU DSD/DPD: Annex I: Carc.Cat.3; R40 N; R51-53 EU CLP: Annex VI: Carc. 2, H351; Aquatic Chronic 2, H411 OSHA HCS 2012: Skin Irrit. 2; Eye Irrit. 2B; STOT SE 3 (Resp.); STOT SE 3: Narc; Muta. 2; Carc. 1B; Repr. 2; STOT RE 1 (Liver, Kidney)
Ethylene, 1,2-dichloro-, (Z)-	CAS: 156-59-2 EC Number: 205-859-7	1ppm	Inhalation-Rat LC50 • 13700 ppm	EU DSD/DPD: Annex I: F; R11 Xn; R20 R52-53 EU CLP: Annex VI: Flam. Liq. 2, H225; Acute Tox. 4, H332; Aquatic Chronic 3, H412 OSHA HCS 2012: Flam. Liq. 2; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3: Resp. Irrit.
	CAS: 75-35-4		Ingestion/Oral-Rat	EU DSD/DPD: Annex I: F+; R12 Xn; R20 Carc.Cat.3; R40 EU CLP: Annex VI: Flam. Liq. 1, H224; Carc. 2, H351; Acute

Ethylene, 1,1-dichloro-	EC Number: 200-864-0	1ppm	LD50 • 200 mg/kg Inhalation-Rat LC50 • 6350 ppm 4 Hour(s)	Tox. 4, H332 OSHA HCS 2012: Flam. Liq. 1; Eye Irrit. 2; Skin Irrit. 2; Acute Tox. 3 (Orl); Acute Tox. 4 (lhal); Repr. 2; STOT SE 3: Narc. & Resp Irrit.
Ethylbenzene	CAS: 100-41-4 EC Number: 202-849-4	1ppm	Ingestion/Oral-Rat LD50 • 3500 mg/kg Inhalation-Rat LC50 • 55000 mg/m ³ 2 Hour(s) Skin-Rabbit LD50 • >5000 mg/kg	EU DSD/DPD: Annex I: F; R11 Xn; R20 EU CLP: Annex VI: Flam. Liq. 2, H225; Acute Tox. 4, H332 OSHA HCS 2012: Flam. Liq. 2; Eye Irrit. 2; Skin Irrit. 3; Repr. 2
Ethenylbenzene	CAS: 100-42-5 EC Number: 202-851-5	1ppm	Ingestion/Oral-Rat LD50 • 2650 mg/kg Inhalation-Rat LC50 • 2770 ppm 4 Hour(s)	EU DSD/DPD: Annex I: R10 Xn; R20 Xi; R36/38 EU CLP: Annex VI: Flam. Liq. 3, H226; Acute Tox. 4, H332; Eye Irrit. 2, H319; Skin Irrit. 2, H315 OSHA HCS 2012: Flam. Liq. 3; Acute Tox 4 (Inhl); Carc. 2; Eye Irrit. 2A; Skin Irrit. 2; STOT SE 3: Resp. Irrit.; STOT SE 3: Narc.; Muta. 2
Ethane, chloro-	CAS: 75-00-3 EC Number: 200-830-5	1ppm	Inhalation-Rat LC50 • 152 g/m ³ 2 Hour(s)	EU DSD/DPD: Annex I: F+; R12 Carc.Cat.3; R40 R52-53 EU CLP: Annex VI: Flam. Gas 1, H220; Press. Gas - Comp, H280; Carc. 2, H351; Aquatic Chronic 3, H412 OSHA HCS 2012: Flam. Gas 1; Press. Gas - Comp; STOT SE 3: Resp. Irrit; Eye Irrit. 2
Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	CAS: 76-14-2 EINECS: 200-937-7	1ppm	Inhalation-Rat LC50 • 72 pph 30 Minute(s)	EU DSD/DPD: Self Classified: N, R59; Xi, R37 EU CLP: Self Classified: Press. Gas - Liq, H280; STOT SE 3: Resp. Irrit., H335; Ozone 1, H420 OSHA HCS 2012: Press. Gas - Liq.; Simp. Asphyx.; HNOC - Frostbite; STOT SE 3: Resp. Irrit.
Ethane, 1,2-dichloro-	CAS: 107-06-2 EC Number: 203-458-1	1ppm	Inhalation-Rat LC50 • 1000 ppm 7 Hour(s) Skin-Rabbit LD50 • 2800 mg/kg Ingestion/Oral-Rat LD50 • 500 mg/kg	EU DSD/DPD: Annex I: F; R11 Xn; R22 Xi; R36/37/38 Carc.Cat.2; R45 EU CLP: Annex VI: Flam. Liq. 2, H225; Acute Tox. 4, H302; Eye Irrit. 2; H319; STOT SE 3, H335; Skin Irrit. 2; H315; Carc. 1B, H350 OSHA HCS 2012: STOT RE 1: Ingestion (Kidney, Liver); Skin Irrit. 2; Eye Irrit. 2A; Carc 2; Acute Tox. 4 (Oral); STOT SE 3: Narc. & Resp. Irrit.
Ethane, 1,2-dibromo-	CAS: 106-93-4 EC Number: 203-444-5	1ppm	Ingestion/Oral-Rat LD50 • 108 mg/kg Inhalation-Rat LC50 • 14300 mg/m ³ 30 Minute(s) Skin-Rabbit LD50 • 300 mg/kg	EU DSD/DPD: Annex I: T; R23/24/25 Xi; R36/37/38 Carc.Cat.2; R45 N; R51-53 EU CLP: Annex VI: Carc. 1B, H350; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Eye Irrit. 2, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Aquatic Chronic 2, H411 OSHA HCS 2012: Carc. 1B; Eye Irrit. 2; Skin Irrit. 2; Acute Tox. 3 (Oral, Skin, Inhalation); Repr. 2; Muta. 2; STOT SE 3: Narc. & Resp. Irrit.; STOT SE 1 (Kidney, Liver)
Ethane, 1,1-dichloro-	CAS: 75-34-3 EC Number: 200-863-5	1ppm	Ingestion/Oral-Rat LD50 • 725 mg/kg Inhalation-Rat LC50 • 13000 ppm 4 Hour(s)	EU DSD/DPD: Annex I: F; R11 Xn; R22 Xi; R36/37 R52-53 EU CLP: Annex VI: Flam. Liq. 2, H225; Acute Tox. 4, H302; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412 OSHA HCS 2012: STOT SE 3 - Narc. & Resp. Irrit.; Eye Irrit. 2A; Skin Irrit. 2; STOT RE 1 (Kidney, Liver); Acute Tox. 4 (Oral)
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	CAS: 76-13-1 EINECS: 200-936-1	1ppm	Ingestion/Oral-Rat LD50 • 43 g/kg Inhalation-Rat LC50 • 38500 ppm 4 Hour(s)	EU DSD/DPD: Self Classified: Xi R36/37/R38 R67, N, R59 EU CLP: Self Classified: Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3: Resp. Irrit., H335; STOT SE 3: Narc., H336; Ozone 1, H420 OSHA HCS 2012: Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3: Narc. & Resp. Irrit.
Ethane, 1,1,2-trichloro-	CAS: 79-00-5 EC Number: 201-166-9	1ppm	Skin-Rabbit LD50 • 3730 µL/kg Ingestion/Oral-Rat LD50 • 580 mg/kg	EU DSD/DPD: Annex I: Xn; R20/21/22 Carc.Cat.3; R40 R66 EU CLP: Annex VI: Carc. 2 H351; Acute Tox. 4, H332; Acute Tox. 4, H312; Acute Tox. 4, H302; EUH066 OSHA HCS 2012: Eye Irrit. 2A; Skin Irrit. 2; STOT SE 3 - Narc. & Resp. Irrit. ; STOT RE 1 (Kidney, Liver); Acute Tox. 4 (Oral,

				Inhl); Muta. 2
Ethane, 1,1,2,2-tetrachloro-	CAS: 79-34-5 EC Number: 201-197-8	1ppm	Ingestion/Oral-Rat LD50 • 200 mg/kg	EU DSD/DPD: Annex I: T+; R26/27 N; R51-53 EU CLP: Annex VI: Acute Tox. 2, H330; Acute Tox. 1, H310; Aquatic Chronic 2, H411 OSHA HCS 2012: STOT SE 1: Inhalation (Liver); STOT SE 3: Narc. & Resp. Irrit.; Eye Dam.1; Acute Tox. 3 (Oral); STOT RE 1 (Kidney, Liver, Blood, CNS, PNS, GI); Eye Dam. 1
Ethane, 1,1,1-trichloro-	CAS: 71-55-6 EC Number: 200-756-3	1ppm	Ingestion/Oral-Rat LD50 • 9600 mg/kg Inhalation-Rat LC50 • 17000 ppm 4 Hour(s)	EU DSD/DPD: Annex I: Xn; R20 N; R59 EU CLP: Self Classified: Acute Tox. 4, H332; Ozone 1, H420 OSHA HCS 2012: Eye Irrit. 2A; Skin Irrit. 2; STOT SE 3: Resp. Irrit. & Narc.
Dichloromethane	CAS: 75-09-2 EC Number: 200-838-9	1ppm	Inhalation-Rat LC50 • 76000 mg/m ³ 4 Hour(s) Ingestion/Oral-Rat LD50 • 985 mg/kg	EU DSD/DPD: Annex I: Carc.Cat.3; R40 EU CLP: Annex VI: Carc. 2; H351 OSHA HCS 2012: Eye Irrit. 2, Skin Irrit. 2, Carc. 2 Repr. 2; STOT SE 3: Resp. Irrit. & Narc.; Acute Tox 4 (oral)
Chloroform	CAS: 67-66-3 EC Number: 200-663-8	1ppm	Inhalation-Rat LC50 • 47702 mg/m ³ 4 Hour(s) Inhalation-Rat LC50 • 6000 mg/m ³ 6 Hour(s) Ingestion/Oral-Rat LD50 • 300 mg/kg Skin-Rabbit LD50 • >20 g/kg	EU DSD/DPD: Self Classified: F; R11 Xi; R36 R67 EU CLP: Self Classified: Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336 OSHA HCS 2012: Flam. Liq. 2; Eye Irrit. 2; STOT SE 3: Narc.; Carc. 2
Carbon tetrachloride	CAS: 56-23-5 EC Number: 200-262-8	1ppm	Ingestion/Oral-Rat LD50 • 2350 mg/kg Inhalation-Rat LC50 • 8000 ppm 4 Hour(s) Skin-Rabbit LD50 • >20 g/kg	EU DSD/DPD: Annex I: T; R23/24/25-48/23 Carc.Cat.3; R40 R52-53 N; R59 EU CLP: Annex VI: Carc. 2, H351; Acute Tox. 3, H331; Acute Tox. 3, H311; Acute Tox. 3, H301; STOT RE 1, H372; Aquatic Chronic 3, H412; Ozone 1, H420; EUH059 OSHA HCS 2012: Acute Tox. 4 (Inhl); Carc. 2; Eye Irrit. 2B; STOT RE 2 (Liver, Oral & Inhl)
Benzene, p-dichloro-	CAS: 106-46-7 EC Number: 203-400-5	1ppm	Ingestion/Oral-Rat LD50 • 500 mg/kg Skin-Rat LD50 • 2000 mg/kg Inhalation-Rat LC50 • 5000 mg/m ³ 4 Hour(s)	EU DSD/DPD: Annex I: Xi; R36 Carc.Cat.3; R40 N; R50-53 EU CLP: Annex VI: Carc. 2, H351; Eye Irrit. 2, H319; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 OSHA HCS 2012: Flam. Liq. 4; Carc 2; STOT RE 1 (Kidney, Liver); STOT SE 3: Narc.; STOT SE 3: Resp. Irrit.; Acute Tox. 4 (Oral); Eye Irrit. 2A
Benzene, o-dichloro-	CAS: 95-50-1 EC Number: 202-425-9	1ppm	Ingestion/Oral-Rat LD50 • 500 mg/kg Skin-Rabbit LD50 • >10 g/kg Inhalation-Rat LC50 • 8150 mg/m ³ 4 Hour(s)	EU DSD/DPD: Annex I: Xn; R22 Xi; R36/37/38 N; R50-53 EU CLP: Annex VI: Acute Tox. 4, H302; Eye Irrit. 2, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 OSHA HCS 2012: Flam. Liq. 4; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3: Resp. Irrit.; STOT SE 3: Narc.; STOT RE 2: Inhalation (Liver, Kidney, Blood); Skin Sens. 1B; Acute Tox. 3 (Inh); Acute Tox. 4 (Oral)
Benzene, m-dichloro-	CAS: 541-73-1 EC Number: 208-792-1	1ppm	NDA	EU DSD/DPD: Annex I: Xn; R22 N; R51-53 EU CLP: Annex VI: Acute Tox. 4, H302; Aquatic Chronic 2, H411 OSHA HCS 2012: Flam. Liq. 4; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3: Resp. Irrit.; STOT SE 3: Narc.; STOT RE 2 (Kidney, Liver); Skin Sens. 1B
Benzene, chloro-	CAS: 108-90-7 EC Number: 203-628-5	1ppm	Ingestion/Oral-Rat LD50 • 1110 mg/kg Inhalation-Rat LC50 • 2965 ppm Ingestion/Oral-Rat LD50 • 2290 mg/kg	EU DSD/DPD: Annex I: R10 Xn; R20 N; R51-53 EU CLP: Annex VI: Flam. Liq. 3, H226; Acute Tox. 4, H332; Aquatic Chronic 2, H411 OSHA HCS 2012: Flam. Liq. 3; Asp. Tox. 1; STOT SE 3: Narc.; Skin Irrit. 2; Eye Irrit. 2A; STOT RE 2: Oral (Kidney, Liver); Acute Tox. 4 (Oral); Acute Tox. 4 (Inal)

Benzene, 1,2,4-trichloro-	CAS: 120-82-1 EC Number: 204-428-0	1ppm	Ingestion/Oral-Rat LD50 • 756 mg/kg	EU DSD/DPD: Annex I: Xn; R22 Xi; R38 N; R50-53 EU CLP: Annex VI: Acute Tox. 4, H302; Skin Irrit. 2, H315; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 OSHA HCS 2012: Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3: Resp. Irrit.; STOT RE 2 (Inhalation - Kidney, Liver & Lung); Acute Tox. 4 (Oral)
Benzene	CAS: 71-43-2 EC Number: 200-753-7	1ppm	Ingestion/Oral-Rat LD50 • 930 mg/kg Inhalation-Rat LC50 • 10000 ppm 7 Hour(s) Skin-Rabbit LD50 • >9400 µL/kg	EU DSD/DPD: Annex I: F; R11 Xi; R36/38 Carc.Cat.1; R45 Muta.Cat.2; R46 T; R48/23/24/25 Xn; R65 EU CLP: Annex VI: Flam. Liq. 2, H225; Carc. 1A, H350; Muta. 1B, H340; STOT RE 1, H372; Asp. Tox. 1, H304; Eye Irrit. 2, H319; Skin Irrit. 2, H315 OSHA HCS 2012: Flam Liq. 2; Eye Irrit. 2A; Skin Irrit. 2; Muta. 1B; Carc. 1A; Asp. Tox 1; STOT RE 1- Blood and Bone marrow; Repr. 2; STOT SE 3: Narc.; Acute Tox. 4 (Oral)
1,3-Butadiene, hexachloro-	CAS: 87-68-3 EINECS: 201-765-5	1ppm	Ingestion/Oral-Rat LD50 • 82 mg/kg Inhalation-Rat LC50 • 630 mg/m ³ 4 Hour(s) Skin-Rabbit LD50 • 126 mg/kg 7 Hour(s)	EU DSD/DPD: Self Classified: N R50/53; T, R23/24/25 Repr. 3 R63; Muta. 3, R68; Xn, R48/20 EU CLP: Self Classified: Aquatic Acute 1, H400; Repr. 2, H361d; Acute Tox. 2 (Dermal), H310; Acute Tox. 3 (Oral), H301; Acute Tox. 2 (Inhl), H330; Muta. 2, H341; STOT RE 2 (Inhalation- Kidney, Liver), H373 OSHA HCS 2012: Eye Irrit 2B; Repr 2; Acute Tox. 2 (Dermal); Acute Tox. 3 (Oral); Acute Tox. 2 (Inhl); Muta. 2; STOT RE 2 (Inhalation- Kidney, Liver)
1,3,5-Trimethylbenzene	CAS: 108-67-8 EC Number: 203-604-4	1ppm	Inhalation-Rat LC50 • 24000 mg/m ³ 4 Hour(s) Ingestion/Oral-Rat LD50 • 5000 mg/kg	EU DSD/DPD: Annex I: R10 Xi; R37 N; R51-53 EU CLP: Annex VI: Flam. Liq. 3, H226; STOT SE 3: Resp. Irrit., H335; Aquatic Chronic 2, H411 OSHA HCS 2012: Flam Liq. 3; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3: Resp. Irrit.; STOT SE 3: Narc.; STOT RE 2 - Blood
1,2,4-Trimethylbenzene	CAS: 95-63-6 EC Number: 202-436-9	1ppm	Ingestion/Oral-Rat LD50 • 5 g/kg Inhalation-Rat LC50 • 18000 mg/m ³ 4 Hour (s)	EU DSD/DPD: Annex I: R10 Xn; R20 Xi; R36/37/38 N; R51-53 EU CLP: Annex VI: Flam. Liq. 3, H226; Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3: Resp. Irrit., H335; Skin Irrit. 2, H315; Aquatic Chronic 2, H411 OSHA HCS 2012: Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3: Resp. Irrit.; Acute Tox. 4 (Inh); STOT SE 3 - CNS; STOT RE 2 - Blood
Nitrogen	CAS: 7727-37-9 EINECS: 231-783-9	Balance	NDA	EU DSD/DPD: Not Classified - Criteria not met EU CLP: Self Classified: Press. Gas - Comp., H280 OSHA HCS 2012: Press. Gas - Comp.; Simp. Asphyx.

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

Skin

- Although exposure is unlikely, in case of contact immediately flush skin with running water. If skin irritation develops get medical advice/attention.

Eye

- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If irritation develops and persists, get medical attention.

Ingestion

- Ingestion is not considered a potential route of exposure.

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials

other than this product may have occurred. A potential health hazard associated with this gas is anoxia.

4.4 Other information

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. **RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO GASES WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT.** At a minimum, Self-Contained Breathing Apparatus must be worn. Victim(s) who experience any adverse effect after over-exposure to this gas mixture must be taken for medical attention. Rescuers should be taken for medical attention if necessary. Take a copy of the label and the MSDS to physician or other health professional with victim(s).

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media • Use extinguishing agent suitable for type of surrounding fire.

Unsuitable Extinguishing Media • No data available

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards • Containers may explode when heated. Ruptured cylinders may rocket.

Hazardous Combustion Products • No data available

5.3 Advice for firefighters

- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.
Wear positive pressure self-contained breathing apparatus (SCBA).
Move containers from fire area if you can do it without risk.
FIRE: If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.
FIRE INVOLVING TANKS: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
FIRE INVOLVING TANKS: Cool containers with flooding quantities of water until well after fire is out.
FIRE INVOLVING TANKS: Do not direct water at source of leak or safety devices; icing may occur.
FIRE INVOLVING TANKS: Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
FIRE INVOLVING TANKS: ALWAYS stay away from tanks engulfed in fire.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions • Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material. Ventilate the area before entry.

Emergency Procedures • Stop leak if you can do it without risk. Keep unauthorized personnel away. Keep out of low areas. Stay upwind. Do not direct water at spill or source of leak. **LARGE SPILL:** Consider initial downwind evacuation for at least 500 meters (1/3 mile)

6.2 Environmental precautions

- Prevent spreading of vapors through sewers, ventilation systems and confined areas.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Stop leak if you can do it without risk.
Do not direct water at spill or source of leak.
Use water spray to reduce vapors; do not put water directly on leak, spill area or inside container.
If possible, turn leaking containers so that gas escapes rather than liquid.
Isolate area until gas has dispersed.
Ventilate the area.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage**7.1 Precautions for safe handling****Handling**

- Use only with adequate ventilation. Ventilate closed spaces before entering. Be aware of any signs of dizziness or fatigue, especially if work is done in a poorly ventilated area; exposures to fatal concentrations of this gas mixture could occur without any significant warning symptoms, due to olfactory fatigue or oxygen deficiency. Cylinders should be firmly secured to prevent falling or being knocked-over. Do not attempt to repair, adjust, or in any other way modify cylinders. If there is a malfunction or another type of operational problem, contact nearest distributor immediately. Empty containers retain product residue and can be hazardous. Do not cut, weld, puncture or incinerate container.

7.2 Conditions for safe storage, including any incompatibilities**Storage**

- Store in a cool, dry, well-ventilated place. Protect cylinders against physical damage. Cylinders should be firmly secured to prevent falling or being knocked-over.

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection**8.1 Control parameters**

Exposure Limits/Guidelines						
	Result	ACGIH	Canada Ontario	Canada Quebec	China	China Highly Toxic Goods
Ethane, chloro- (75-00-3)	TWAs	100 ppm TWA 100 ppm TWA	100 ppm TWA 100 ppm TWA	1000 ppm TWAEV; 2640 mg/m3 TWAEV 1000 ppm TWAEV; 2640 mg/m3 TWAEV	Not established	Not established
Propane, 1,2- dichloro- (78-87-5)	STELs	Not established	Not established	110 ppm STEV; 508 mg/m3 STEV 110 ppm STEV; 508 mg/m3 STEV	500 mg/m3 STEL 500 mg/m3 STEL	Not established
	TWAs	10 ppm TWA 10 ppm TWA	10 ppm TWA 10 ppm TWA	75 ppm TWAEV; 347 mg/m3 TWAEV 75 ppm TWAEV; 347 mg/m3 TWAEV	350 mg/m3 TWA 350 mg/m3 TWA	Not established

Ethylene, 1,2-dichloro-, (Z)- (156-59-2)	STELs	Not established	250 ppm STEL; 990 mg/m3 STEL	Not established	Not established	Not established
	TWAs	200 ppm TWA 200 ppm TWA	250 ppm STEL; 990 mg/m3 STEL 200 ppm TWA; 790 mg/m3 TWA 200 ppm TWA; 790 mg/m3 TWA	Not established	Not established	Not established
Benzene, chloro- (108-90-7)	STELs	Not established	Not established	Not established	100 mg/m3 STEL	Not established
	TWAs	10 ppm TWA	10 ppm TWA	50 ppm TWAEV; 230 mg/m3 TWAEV	50 mg/m3 TWA	Not established
Toluene (108-88-3)	STELs	Not established	Not established	Not established	100 mg/m3 STEL	Not established
	TWAs	20 ppm TWA	20 ppm TWA	50 ppm TWAEV; 188 mg/m3 TWAEV	50 mg/m3 TWA	Not established
o-Xylene (95-47-6)	STELs	150 ppm STEL	150 ppm STEL	150 ppm STEV; 651 mg/m3 STEV	100 mg/m3 STEL	Not established
	TWAs	100 ppm TWA	100 ppm TWA	100 ppm TWAEV; 434 mg/m3 TWAEV	50 mg/m3 TWA	Not established
p-Xylene (106-42-3)	STELs	150 ppm STEL	150 ppm STEL	150 ppm STEV; 651 mg/m3 STEV	100 mg/m3 STEL	Not established
	TWAs	100 ppm TWA	100 ppm TWA	100 ppm TWAEV; 434 mg/m3 TWAEV	50 mg/m3 TWA	Not established
m-Xylene (108-38-3)	STELs	150 ppm STEL	150 ppm STEL	150 ppm STEV; 651 mg/m3 STEV	100 mg/m3 STEL	Not established
	TWAs	100 ppm TWA	100 ppm TWA	100 ppm TWAEV; 434 mg/m3 TWAEV	50 mg/m3 TWA	Not established
Ethane, 1,2-dichloro- (107-06-2)	STELs	Not established	Not established	2 ppm STEV; 8 mg/m3 STEV	15 mg/m3 STEL	Not established
	TWAs	10 ppm TWA	10 ppm TWA	1 ppm TWAEV; 4 mg/m3 TWAEV	7 mg/m3 TWA	Not established
Methane, chloro- (74-87-3)	STELs	100 ppm STEL	100 ppm STEL	100 ppm STEV; 207 mg/m3 STEV	120 mg/m3 STEL	Not established
	TWAs	50 ppm TWA	50 ppm TWA	50 ppm TWAEV; 103 mg/m3 TWAEV	60 mg/m3 TWA	Not established
Vinyl Chloride (75-01-4)	STELs	Not established	Not established	Not established	20 mg/m3 STEL	25 mg/m3 STEL
	TWAs	1 ppm TWA	1 ppm TWA (designated substance regulation); 1 ppm TWA (applies to workplaces to which the designated substance regulation does not apply)	1 ppm TWAEV; 2.6 mg/m3 TWAEV	10 mg/m3 TWA	10 mg/m3 TWA
Methane, bromo-	STELs	Not established	Not established	Not established	5 mg/m3 STEL	Not established

(74-83-9)	TWAs	1 ppm TWA	1 ppm TWA	5 ppm TWAEV; 19 mg/m3 TWAEV	2 mg/m3 TWA	Not established
Chloroform (67-66-3)	STELs	Not established	Not established	Not established	40 mg/m3 STEL	Not established
	TWAs	10 ppm TWA	10 ppm TWA	5 ppm TWAEV; 24.4 mg/m3 TWAEV	20 mg/m3 TWA	Not established
Carbon tetrachloride (56-23-5)	STELs	10 ppm STEL	3 ppm STEL	10 ppm STEV; 63 mg/m3 STEV	25 mg/m3 STEL	Not established
	TWAs	5 ppm TWA	2 ppm TWA	5 ppm TWAEV; 31 mg/m3 TWAEV	15 mg/m3 TWA	Not established
Benzene, o-dichloro- (95-50-1)	STELs	50 ppm STEL	50 ppm STEL	Not established	100 mg/m3 STEL	Not established
	TWAs	25 ppm TWA	25 ppm TWA	Not established	50 mg/m3 TWA	Not established
	Ceilings	Not established	Not established	50 ppm Ceiling; 301 mg/m3 Ceiling	Not established	Not established
Benzene, p-dichloro- (106-46-7)	STELs	Not established	Not established	Not established	60 mg/m3 STEL	Not established
	TWAs	10 ppm TWA	10 ppm TWA	20 ppm TWAEV; 120 mg/m3 TWAEV	30 mg/m3 TWA	Not established
Methane, dichlorodifluoro- (75-71-8)	STELs	Not established	Not established	Not established	7500 mg/m3 STEL	Not established
	TWAs	1000 ppm TWA	1000 ppm TWA	1000 ppm TWAEV; 4950 mg/m3 TWAEV	5000 mg/m3 TWA	Not established
Ethylbenzene (100-41-4)	STELs	Not established	125 ppm STEL	125 ppm STEV; 543 mg/m3 STEV	150 mg/m3 STEL	Not established
	TWAs	20 ppm TWA	100 ppm TWA	100 ppm TWAEV; 434 mg/m3 TWAEV	100 mg/m3 TWA	Not established
Ethenylbenzene (100-42-5)	STELs	40 ppm STEL	100 ppm STEL	100 ppm STEV; 426 mg/m3 STEV	100 mg/m3 STEL	Not established
	TWAs	20 ppm TWA	35 ppm TWA	50 ppm TWAEV; 213 mg/m3 TWAEV	50 mg/m3 TWA	Not established
Benzene (71-43-2)	STELs	2.5 ppm STEL	2.5 ppm STEL (applies to workplaces to which the designated substance regulation does not apply); 2.5 ppm STEL (designated substances regulation)	5 ppm STEV; 15.5 mg/m3 STEV	10 mg/m3 STEL	10 mg/m3 STEL
	TWAs	0.5 ppm TWA	0.5 ppm TWA (applies to workplaces to which the designated substance regulation does not apply); 0.5 ppm TWA (designated substance regulation)	1 ppm TWAEV; 3 mg/m3 TWAEV	6 mg/m3 TWA	6 mg/m3 TWA
Dichloromethane (75-09-2)	STELs	Not established	Not established	Not established	300 mg/m3 STEL	Not established
	TWAs	50 ppm TWA	50 ppm TWA	50 ppm TWAEV; 174 mg/m3 TWAEV	200 mg/m3 TWA	Not established
Ethylene,	STELs	100 ppm STEL	100 ppm STEL	100 ppm STEV; 685 mg/m3 STEV	300 mg/m3 STEL	Not established

tetrachloro- (127-18-4)	TWAs	25 ppm TWA	25 ppm TWA	25 ppm TWAEV; 170 mg/m ³ TWAEV	200 mg/m ³ TWA	Not established
Ethylene, trichloro- (79-01-6)	STELs	25 ppm STEL	25 ppm STEL	200 ppm STEV; 1070 mg/m ³ STEV	60 mg/m ³ STEL	Not established
	TWAs	10 ppm TWA	10 ppm TWA	50 ppm TWAEV; 269 mg/m ³ TWAEV	30 mg/m ³ TWA	Not established
1,3-Butadiene, hexachloro- (87-68-3)	STELs	Not established	Not established	Not established	0.6 mg/m ³ STEL	Not established
	TWAs	0.02 ppm TWA	0.02 ppm TWA	0.02 ppm TWAEV; 0.21 mg/m ³ TWAEV	0.2 mg/m ³ TWA	Not established
Ethane, 1,1,1- trichloro- (71-55-6)	STELs	450 ppm STEL	450 ppm STEL	450 ppm STEV; 2460 mg/m ³ STEV	1350 mg/m ³ STEL	Not established
	TWAs	350 ppm TWA	350 ppm TWA	350 ppm TWAEV; 1910 mg/m ³ TWAEV	900 mg/m ³ TWA	Not established
Methane, trichlorofluoro- (75-69-4)	Ceilings	1000 ppm Ceiling	1000 ppm Ceiling	1000 ppm Ceiling; 5620 mg/m ³ Ceiling	Not established	Not established
Benzene, 1,2,4- trichloro- (120-82-1)	Ceilings	5 ppm Ceiling	5 ppm Ceiling	5 ppm Ceiling; 37 mg/m ³ Ceiling	Not established	Not established
Ethane, 1,1,2- trichloro-1,2,2- trifluoro- (76-13-1)	STELs	1250 ppm STEL	1250 ppm STEL	1250 ppm STEV; 9590 mg/m ³ STEV	Not established	Not established
	TWAs	1000 ppm TWA	1000 ppm TWA	1000 ppm TWAEV; 7670 mg/m ³ TWAEV	Not established	Not established
Ethane, 1,1,2- trichloro- (79-00-5)	TWAs	10 ppm TWA	10 ppm TWA	10 ppm TWAEV; 55 mg/m ³ TWAEV	Not established	Not established
Ethane, 1,2- dichloro-1,1,2,2- tetrafluoro- (76-14-2)	TWAs	1000 ppm TWA (listed under Dichlorotetrafluoroethane)	1000 ppm TWA (listed under Dichlorotetrafluoroethane)	1000 ppm TWAEV; 6990 mg/m ³ TWAEV	Not established	Not established
Ethane, 1,1,2,2- tetrachloro- (79-34-5)	TWAs	1 ppm TWA	1 ppm TWA	1 ppm TWAEV; 6.9 mg/m ³ TWAEV	Not established	Not established
Ethane, 1,1- dichloro- (75-34-3)	TWAs	100 ppm TWA	100 ppm TWA	100 ppm TWAEV; 405 mg/m ³ TWAEV	Not established	Not established
Ethylene, 1,1- dichloro- (75-35-4)	STELs	Not established	20 ppm STEL; 80 mg/m ³ STEL	Not established	Not established	Not established
	TWAs	5 ppm TWA	1 ppm TWA; 4 mg/m ³ TWA	1 ppm TWAEV; 4 mg/m ³ TWAEV	Not established	Not established
Ethane, 1,2- dibromo- (106-93-4)	TWAs	Not established	exposure by all routes should be carefully controlled to levels as low as possible	20 ppm TWAEV; 155 mg/m ³ TWAEV	Not established	Not established
Exposure Limits/Guidelines (Con't.)						
	Result	Europe	France	Germany DFG	Germany TRGS	Ireland
					40 ppm TWA AGW	

Ethane, chloro- (75-00-3)	TWAs	100 ppm TWA; 268 mg/m3 TWA 100 ppm TWA; 268 mg/m3 TWA	100 ppm TWA [VME] (indicative limit); 268 mg/m3 TWA [VME] (indicative limit) 100 ppm TWA [VME] (indicative limit); 268 mg/m3 TWA [VME] (indicative limit)	Not established	(exposure factor 2); 110 mg/m3 TWA AGW (exposure factor 2) 40 ppm TWA AGW (exposure factor 2); 110 mg/m3 TWA AGW (exposure factor 2)	100 ppm TWA; 268 mg/m3 TWA 100 ppm TWA; 268 mg/m3 TWA
Propane, 1,2-dichloro- (78-87-5)	TWAs	Not established	75 ppm TWA [VME]; 350 mg/m3 TWA [VME] 75 ppm TWA [VME]; 350 mg/m3 TWA [VME]	Not established	Not established	10 ppm TWA; 46 mg/m3 TWA 10 ppm TWA; 46 mg/m3 TWA
Ethylene, 1,2-dichloro-, (Z)- (156-59-2)	Ceilings	Not established	Not established	400 ppm Peak; 1600 mg/m3 Peak 400 ppm Peak; 1600 mg/m3 Peak	Not established	Not established
	MAKs	Not established	Not established	200 ppm TWA MAK; 800 mg/m3 TWA MAK 200 ppm TWA MAK; 800 mg/m3 TWA MAK	Not established	Not established
Benzene, chloro- (108-90-7)	STELs	15 ppm STEL; 70 mg/m3 STEL	15 ppm STEL [VLCT] (restrictive limit); 70 mg/m3 STEL [VLCT] (restrictive limit)	Not established	Not established	15 ppm STEL; 70 mg/m3 STEL
	TWAs	5 ppm TWA; 23 mg/m3 TWA	5 ppm TWA [VME] (restrictive limit); 23 mg/m3 TWA [VME] (restrictive limit)	Not established	10 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 47 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)	5 ppm TWA; 23 mg/m3 TWA
	Ceilings	Not established	Not established	20 ppm Peak; 94 mg/m3 Peak	Not established	Not established
	MAKs	Not established	Not established	10 ppm TWA MAK; 47 mg/m3 TWA MAK	Not established	Not established
	STELs	100 ppm STEL; 384 mg/m3 STEL	100 ppm STEL [VLCT] (restrictive limit); 384 mg/m3 STEL [VLCT] (restrictive limit)	Not established	Not established	100 ppm STEL; 384 mg/m3 STEL

Toluene (108-88-3)	TWAs	50 ppm TWA; 192 mg/m ³ TWA	50 ppm TWA [VME] (restrictive limit); 192 mg/m ³ TWA [VME] (restrictive limit)	Not established	50 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 4); 190 mg/m ³ TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 4)	50 ppm TWA; 192 mg/m ³ TWA
	Ceilings	Not established	Not established	200 ppm Peak; 760 mg/m ³ Peak	Not established	Not established
	MAKs	Not established	Not established	50 ppm TWA MAK; 190 mg/m ³ TWA MAK	Not established	Not established
o-Xylene (95-47-6)	STELs	Not established	100 ppm STEL [VLCT] (restrictive limit); 442 mg/m ³ STEL [VLCT] (restrictive limit)	Not established	Not established	100 ppm STEL; 442 mg/m ³ STEL
	TWAs	Not established	50 ppm TWA [VME] (restrictive limit); 221 mg/m ³ TWA [VME] (restrictive limit)	Not established	Not established	50 ppm TWA; 221 mg/m ³ TWA
p-Xylene (106-42-3)	STELs	Not established	100 ppm STEL [VLCT] (restrictive limit); 442 mg/m ³ STEL [VLCT] (restrictive limit)	Not established	Not established	100 ppm STEL; 442 mg/m ³ STEL
	TWAs	Not established	50 ppm TWA [VME] (restrictive limit); 221 mg/m ³ TWA [VME] (restrictive limit)	Not established	Not established	50 ppm TWA; 221 mg/m ³ TWA
m-Xylene (108-38-3)	STELs	Not established	100 ppm STEL [VLCT] (restrictive limit); 442 mg/m ³ STEL [VLCT] (restrictive limit)	Not established	Not established	100 ppm STEL; 442 mg/m ³ STEL
	TWAs	Not established	50 ppm TWA [VME] (restrictive limit); 221 mg/m ³ TWA [VME] (restrictive limit)	Not established	Not established	50 ppm TWA; 221 mg/m ³ TWA
Ethane, 1,2-dichloro- (107-06-2)	TWAs	Not established	10 ppm TWA [VME]; 40 mg/m ³ TWA [VME]	Not established	Not established	5 ppm TWA; 20 mg/m ³ TWA
	STELs	Not established	Not established	Not established	Not established	10 ppm STEL; 40 mg/m ³ STEL
	STELs	Not established	100 ppm STEL [VLCT]; 210 mg/m ³ STEL [VLCT]	Not established	Not established	100 ppm STEL; 210 mg/m ³ STEL

Methane, chloro- (74-87-3)	TWAs	Not established	50 ppm TWA [VME]; 105 mg/m3 TWA [VME]	Not established	50 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 100 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)	50 ppm TWA; 105 mg/m3 TWA
	Ceilings	Not established	Not established	100 ppm Peak; 200 mg/m3 Peak	Not established	Not established
	MAKs	Not established	Not established	50 ppm TWA MAK; 100 mg/m3 TWA MAK	Not established	Not established
Vinyl Chloride (75-01-4)	TWAs	Not established	1 ppm TWA [VME] (restrictive limit); 2.59 mg/m3 TWA [VME] (restrictive limit)	Not established	Not established	3 ppm TWA; 7.77 mg/m3 TWA
Methane, bromo- (74-83-9)	TWAs	Not established	5 ppm TWA [VME] (restrictive limit); 20 mg/m3 TWA [VME] (restrictive limit)	Not established	Not established	5 ppm TWA; 20 mg/m3 TWA
	STELs	Not established	Not established	Not established	Not established	15 ppm STEL; 60 mg/m3 STEL
	Ceilings	Not established	Not established	2 ppm Peak; 7.8 mg/m3 Peak	Not established	Not established
	MAKs	Not established	Not established	1 ppm TWA MAK; 3.9 mg/m3 TWA MAK	Not established	Not established
Chloroform (67-66-3)	STELs	Not established	50 ppm STEL [VLCT]; 250 mg/m3 STEL [VLCT]	Not established	Not established	Not established
	TWAs	Not established	2 ppm TWA [VME] (restrictive limit); 10 mg/m3 TWA [VME] (restrictive limit)	Not established	0.5 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 2.5 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)	2 ppm TWA; 9.8 mg/m3 TWA

	Ceilings	Not established	Not established	1 ppm Peak; 5 mg/m ³ Peak	Not established	Not established
	MAKs	Not established	Not established	0.5 ppm TWA MAK; 2.5 mg/m ³ TWA MAK	Not established	Not established
Carbon tetrachloride (56-23-5)	STELs	Not established	10 ppm STEL [VLCT]; 60 mg/m ³ STEL [VLCT]	Not established	Not established	Not established
	TWAs	Not established	2 ppm TWA [VME]; 12 mg/m ³ TWA [VME]	Not established	0.5 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 3.2 mg/m ³ TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)	2 ppm TWA; 12.6 mg/m ³ TWA
	Ceilings	Not established	Not established	1 ppm Peak; 6.4 mg/m ³ Peak	Not established	Not established
	MAKs	Not established	Not established	0.5 ppm TWA MAK; 3.2 mg/m ³ TWA MAK	Not established	Not established
	STELs	Not established	50 ppm STEL [VLCT] (restrictive limit); 306 mg/m ³ STEL [VLCT] (restrictive limit)	Not established	Not established	50 ppm STEL; 306 mg/m ³ STEL
Benzene, o-dichloro- (95-50-1)	TWAs	Not established	20 ppm TWA [VME] (restrictive limit); 122 mg/m ³ TWA [VME] (restrictive limit)	Not established	10 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 61 mg/m ³ TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)	20 ppm TWA; 122 mg/m ³ TWA
	Ceilings	Not established	Not established	20 ppm Peak; 122 mg/m ³ Peak	Not established	Not established
	MAKs	Not established	Not established	10 ppm TWA MAK; 61 mg/m ³ TWA MAK	Not established	Not established
	STELs	Not established	50 ppm STEL [VLCT] (indicative limit); 306 mg/m ³ STEL [VLCT]	Not established	Not established	50 ppm STEL; 306 mg/m ³ STEL

Benzene, p-dichloro- (106-46-7)			(indicative limit)			
	TWAs	Not established	0.75 ppm TWA [VME] (indicative limit); 4.5 mg/m ³ TWA [VME] (indicative limit)	Not established	1 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 6 mg/m ³ TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)	20 ppm TWA; 122 mg/m ³ TWA
Methane, dichlorodifluoro- (75-71-8)	TWAs	Not established	1000 ppm TWA [VME]; 4950 mg/m ³ TWA [VME]	Not established	1000 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 5000 mg/m ³ TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)	1000 ppm TWA; 4950 mg/m ³ TWA
	STELs	Not established	Not established	Not established	Not established	1250 ppm STEL; 6200 mg/m ³ STEL
	Ceilings	Not established	Not established	2000 ppm Peak; 10000 mg/m ³ Peak	Not established	Not established
	MAKs	Not established	Not established	1000 ppm TWA MAK; 5000 mg/m ³ TWA MAK	Not established	Not established
Ethylbenzene (100-41-4)	STELs	Not established	100 ppm STEL [VLCT] (restrictive limit); 442 mg/m ³ STEL [VLCT] (restrictive limit)	Not established	Not established	200 ppm STEL; 884 mg/m ³ STEL
	TWAs	Not established	20 ppm TWA [VME] (restrictive limit); 88.4 mg/m ³ TWA [VME] (restrictive limit)	Not established	100 ppm TWA AGW (exposure factor 2); 440 mg/m ³ TWA AGW (exposure factor 2)	100 ppm TWA; 442 mg/m ³ TWA
	Ceilings	Not established	Not established	40 ppm Peak; 176 mg/m ³ Peak	Not established	Not established
	MAKs	Not established	Not established	20 ppm TWA MAK; 88 mg/m ³ TWA MAK	Not established	Not established

Ethenylbenzene (100-42-5)	TWAs	Not established	50 ppm TWA [VME]; 215 mg/m ³ TWA [VME]	Not established	20 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 86 mg/m ³ TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)	20 ppm TWA; 85 mg/m ³ TWA
	STELs	Not established	Not established	Not established	Not established	40 ppm STEL; 170 mg/m ³ STEL
	Ceilings	Not established	Not established	40 ppm Peak; 172 mg/m ³ Peak	Not established	Not established
	MAKs	Not established	Not established	20 ppm TWA MAK; 86 mg/m ³ TWA MAK	Not established	Not established
Benzene (71-43-2)	TWAs	Not established	1 ppm TWA [VME] (restrictive limit); 3.25 mg/m ³ TWA [VME] (restrictive limit)	Not established	Not established	1 ppm TWA; 3 mg/m ³ TWA
Dichloromethane (75-09-2)	STELs	Not established	100 ppm STEL [VLCT]; 350 mg/m ³ STEL [VLCT]	Not established	Not established	150 ppm STEL; 550 mg/m ³ STEL
	TWAs	Not established	50 ppm TWA [VME]; 180 mg/m ³ TWA [VME]	Not established	75 ppm TWA AGW (exposure factor 4); 260 mg/m ³ TWA AGW (exposure factor 4)	50 ppm TWA; 174 mg/m ³ TWA
Ethylene, tetrachloro- (127-18-4)	TWAs	Not established	50 ppm TWA [VME]; 335 mg/m ³ TWA [VME]	Not established	20 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 138 mg/m ³ TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)	25 ppm TWA; 170 mg/m ³ TWA
	STELs	Not established	Not established	Not established	Not established	100 ppm STEL; 678 mg/m ³ STEL
	STELs	Not established	200 ppm STEL [VLCT]; 1080 mg/m ³	Not established	Not established	25 ppm STEL

Ethylene, trichloro- (79-01-6)			STEL [VLCT]			
	TWAs	Not established	75 ppm TWA [VME]; 405 mg/m3 TWA [VME]	Not established	Not established	10 ppm TWA
1,3-Butadiene, hexachloro- (87-68-3)	TWAs	Not established	Not established	Not established	Not established	0.02 ppm TWA; 0.21 mg/m3 TWA
Ethane, 1,1,1- trichloro- (71-55-6)	STELs	Not established	200 ppm STEL [VLCT] (restrictive limit); 1110 mg/m3 STEL [VLCT] (restrictive limit)	Not established	Not established	200 ppm STEL; 1110 mg/m3 STEL
	TWAs	Not established	100 ppm TWA [VME] (restrictive limit); 555 mg/m3 TWA [VME] (restrictive limit)	Not established	200 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 1); 1100 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 1)	100 ppm TWA; 555 mg/m3 TWA
	Ceilings	Not established	Not established	200 ppm Peak; 1100 mg/m3 Peak	Not established	Not established
	MAKs	Not established	Not established	200 ppm TWA MAK; 1100 mg/m3 TWA MAK	Not established	Not established
Methane, trichlorofluoro- (75-69-4)	STELs	Not established	1000 ppm STEL [VLCT]; 5600 mg/m3 STEL [VLCT]	Not established	Not established	1250 ppm STEL; 7000 mg/m3 STEL
	TWAs	Not established	Not established	Not established	1000 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 5700 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)	1000 ppm TWA; 5600 mg/m3 TWA

	Ceilings	Not established	Not established	2000 ppm Peak; 11400 mg/m3 Peak	Not established	Not established
	MAKs	Not established	Not established	1000 ppm TWA MAK; 5700 mg/m3 TWA MAK	Not established	Not established
Benzene, 1,2,4-trichloro- (120-82-1)	STELs	Not established	5 ppm STEL [VLCT] (restrictive limit); 37.8 mg/m3 STEL [VLCT] (restrictive limit)	Not established	Not established	5 ppm STEL; 37.8 mg/m3 STEL
	TWAs	Not established	2 ppm TWA [VME] (restrictive limit); 15.1 mg/m3 TWA [VME] (restrictive limit)	Not established	0.5 ppm TWA AGW (exposure factor 4); 3.8 mg/m3 TWA AGW (exposure factor 4)	2 ppm TWA; 15.1 mg/m3 TWA
Ethane, 1,1,2-trichloro-1,2,2-trifluoro- (76-13-1)	STELs	Not established	1250 ppm STEL [VLCT]; 9500 mg/m3 STEL [VLCT]	Not established	Not established	1250 ppm STEL; 9500 mg/m3 STEL
	TWAs	Not established	1000 ppm TWA [VME]; 7600 mg/m3 TWA [VME]	Not established	500 ppm TWA AGW (exposure factor 2); 3900 mg/m3 TWA AGW (exposure factor 2)	1000 ppm TWA; 7600 mg/m3 TWA
	Ceilings	Not established	Not established	1000 ppm Peak; 7800 mg/m3 Peak	Not established	Not established
	MAKs	Not established	Not established	500 ppm TWA MAK; 3900 mg/m3 TWA MAK	Not established	Not established
Ethane, 1,1,2-trichloro- (79-00-5)	STELs	Not established	Not established	Not established	Not established	20 ppm STEL; 90 mg/m3 STEL
	TWAs	Not established	Not established	Not established	10 ppm TWA AGW (exposure factor 2); 55 mg/m3 TWA AGW (exposure factor 2)	10 ppm TWA; 45 mg/m3 TWA
	Ceilings	Not established	Not established	20 ppm Peak; 110 mg/m3 Peak	Not established	Not established
	MAKs	Not established	Not established	10 ppm TWA MAK; 55 mg/m3 TWA MAK	Not established	Not established
Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro- (76-14-2)	TWAs	Not established	1000 ppm TWA [VME]; 7000 mg/m3 TWA [VME]	Not established	1000 ppm TWA AGW (exposure factor 8); 7100 mg/m3 TWA AGW (exposure factor 8)	1000 ppm TWA; 7000 mg/m3 TWA
	STELs	Not established	Not established	Not established	Not established	1250 ppm STEL; 8750 mg/m3 STEL
	Ceilings	Not established	Not established	8000 ppm Peak; 56800 mg/m3 Peak	Not established	Not established
	MAKs	Not established	Not established	1000 ppm TWA MAK; 7100 mg/m3 TWA MAK	Not established	Not established
	STELs	Not established	5 ppm STEL [VLCT]; 35 mg/m3 STEL [VLCT]	Not established	Not established	Not established

Ethane, 1,1,2,2-tetrachloro- (79-34-5)	TWAs	Not established	1 ppm TWA [VME]; 7 mg/m ³ TWA [VME]	Not established	1 ppm TWA AGW (exposure factor 2); 7 mg/m ³ TWA AGW (exposure factor 2)	1 ppm TWA; 6.9 mg/m ³ TWA
	Ceilings	Not established	Not established	2 ppm Peak; 14.0 mg/m ³ Peak	Not established	Not established
	MAKs	Not established	Not established	1 ppm TWA MAK; 7.0 mg/m ³ TWA MAK	Not established	Not established
Ethane, 1,1-dichloro- (75-34-3)	TWAs	Not established	100 ppm TWA [VME] (indicative limit); 412 mg/m ³ TWA [VME] (indicative limit)	Not established	100 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 410 mg/m ³ TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)	100 ppm TWA; 412 mg/m ³ TWA
	Ceilings	Not established	Not established	200 ppm Peak; 820 mg/m ³ Peak	Not established	Not established
	MAKs	Not established	Not established	100 ppm TWA MAK; 410 mg/m ³ TWA MAK	Not established	Not established
Ethylene, 1,1-dichloro- (75-35-4)	TWAs	Not established	5 ppm TWA [VME]; 20 mg/m ³ TWA [VME]	Not established	2 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 8 mg/m ³ TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)	5 ppm TWA; 20 mg/m ³ TWA
	Ceilings	Not established	Not established	4 ppm Peak; 16.0 mg/m ³ Peak	Not established	Not established
	MAKs	Not established	Not established	2 ppm TWA MAK; 8.0 mg/m ³ TWA MAK	Not established	Not established
	STELs	Not established	50 ppm STEL [VLCT] (restrictive limit); 250 mg/m ³ STEL [VLCT] (restrictive limit)	Not established	Not established	Not established
					20 ppm TWA AGW (The risk of damage	

1,2,4-Trimethylbenzene (95-63-6)	TWAs	Not established	20 ppm TWA [VME] (restrictive limit); 100 mg/m3 TWA [VME] (restrictive limit)	Not established	to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 100 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)	20 ppm TWA; 100 mg/m3 TWA
	Ceilings	Not established	Not established	40 ppm Peak (all isomers, listed under Trimethylbenzene); 200 mg/m3 Peak (all isomers, listed under Trimethylbenzene)	Not established	Not established
	MAKs	Not established	Not established	20 ppm TWA MAK; 100 mg/m3 TWA MAK	Not established	Not established
1,3,5-Trimethylbenzene (108-67-8)	STELs	Not established	50 ppm STEL [VLCT] (restrictive limit); 250 mg/m3 STEL [VLCT] (restrictive limit)	Not established	Not established	Not established
	TWAs	Not established	20 ppm TWA [VME] (restrictive limit); 100 mg/m3 TWA [VME] (restrictive limit)	Not established	20 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 100 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)	20 ppm TWA; 100 mg/m3 TWA
	Ceilings	Not established	Not established	40 ppm Peak (all isomers, listed under Trimethylbenzene); 200 mg/m3 Peak (all isomers, listed under Trimethylbenzene)	Not established	Not established
	MAKs	Not established	Not established	20 ppm TWA MAK; 100 mg/m3 TWA MAK	Not established	Not established
Ethane, 1,2-dibromo- (106-93-4)	TWAs	Not established	Not established	Not established	Not established	0.5 ppm TWA; 4 mg/m3 TWA
					2 ppm TWA AGW (The risk of damage to the embryo or	

Benzene, m-dichloro- (541-73-1)	TWAs	Not established	Not established	Not established	fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 12 mg/m ³ TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)	Not established
	Ceilings	Not established	Not established	4 ppm Peak; 24 mg/m ³ Peak	Not established	Not established
	MAKs	Not established	Not established	2 ppm TWA MAK; 12 mg/m ³ TWA MAK	Not established	Not established
Exposure Limits/Guidelines (Con't.)						
	Result	Israel	Italy	NIOSH	OSHA	Portugal
Ethane, chloro- (75-00-3)	TWAs	100 ppm TWA	100 ppm TWA; 268 mg/m ³ TWA	Not established	1000 ppm TWA; 2600 mg/m ³ TWA	100 ppm TWA [VLE-MP]
		100 ppm TWA	100 ppm TWA; 268 mg/m ³ TWA		1000 ppm TWA; 2600 mg/m ³ TWA	100 ppm TWA [VLE-MP]
Propane, 1,2-dichloro- (78-87-5)	STELs	Not established	Not established	Not established	Not established	110 ppm STEL [VLE-CD] 110 ppm STEL [VLE-CD]
	TWAs	10 ppm TWA 10 ppm TWA	Not established	Not established	75 ppm TWA; 350 mg/m ³ TWA 75 ppm TWA; 350 mg/m ³ TWA	10 ppm TWA [VLE-MP] 10 ppm TWA [VLE-MP]
Ethylene, 1,2-dichloro-, (Z)- (156-59-2)	TWAs	200 ppm TWA 200 ppm TWA	Not established	Not established	Not established	200 ppm TWA [VLE-MP] 200 ppm TWA [VLE-MP]
Benzene, chloro- (108-90-7)	TWAs	10 ppm TWA	10 ppm TWA; 47 mg/m ³ TWA; 5 ppm TWA (as Monochlorobenzene); 23 mg/m ³ TWA (as Monochlorobenzene)	Not established	75 ppm TWA; 350 mg/m ³ TWA	10 ppm TWA [VLE-MP]
	STELs	Not established	20 ppm STEL; 94 mg/m ³ STEL; 15 ppm STEL (as Monochlorobenzene); 70 mg/m ³ STEL (as Monochlorobenzene)	Not established	Not established	Not established
Toluene (108-88-3)	TWAs	50 ppm TWA	50 ppm TWA; 192 mg/m ³ TWA	100 ppm TWA; 375 mg/m ³ TWA	200 ppm TWA	50 ppm TWA [VLE-MP]
	STELs	75 ppm STEL	Not established	150 ppm STEL; 560 mg/m ³ STEL	Not established	Not established

	Ceilings	Not established	Not established	Not established	300 ppm Ceiling	Not established
o-Xylene (95-47-6)	STELs	150 ppm STEL	100 ppm STEL; 442 mg/m3 STEL	150 ppm STEL; 655 mg/m3 STEL	Not established	150 ppm STEL [VLE-CD]
	TWAs	100 ppm TWA	50 ppm TWA; 221 mg/m3 TWA	100 ppm TWA; 435 mg/m3 TWA	Not established	100 ppm TWA [VLE-MP]
p-Xylene (106-42-3)	STELs	150 ppm STEL	100 ppm STEL; 442 mg/m3 STEL	150 ppm STEL; 655 mg/m3 STEL	Not established	150 ppm STEL [VLE-CD]
	TWAs	100 ppm TWA	50 ppm TWA; 221 mg/m3 TWA	100 ppm TWA; 435 mg/m3 TWA	Not established	100 ppm TWA [VLE-MP]
m-Xylene (108-38-3)	STELs	150 ppm STEL	100 ppm STEL; 442 mg/m3 STEL	150 ppm STEL; 655 mg/m3 STEL	Not established	150 ppm STEL [VLE-CD]
	TWAs	100 ppm TWA	50 ppm TWA; 221 mg/m3 TWA	100 ppm TWA; 435 mg/m3 TWA	Not established	100 ppm TWA [VLE-MP]
Ethane, 1,2-dichloro- (107-06-2)	TWAs	10 ppm TWA	Not established	1 ppm TWA; 4 mg/m3 TWA	50 ppm TWA	10 ppm TWA [VLE-MP]
	Ceilings	Not established	Not established	Not established	100 ppm Ceiling	Not established
	STELs	Not established	Not established	2 ppm STEL; 8 mg/m3 STEL	Not established	Not established
Methane, chloro- (74-87-3)	STELs	100 ppm STEL	Not established	Not established	Not established	100 ppm STEL [VLE-CD]
	TWAs	50 ppm TWA	Not established	Not established	100 ppm TWA	50 ppm TWA [VLE-MP]
	Ceilings	Not established	Not established	Not established	200 ppm Ceiling	Not established
Vinyl Chloride (75-01-4)	TWAs	1 ppm TWA; 0.75 ppm TWA (for pregnant and breastfeeding women)	3 ppm TWA; 7.77 mg/m3 TWA	Not established	1 ppm TWA	1 ppm TWA [VLE-MP]
	STELs	5 ppm STEL	Not established	Not established	5 ppm STEL (see 29 CFR 1910.1017)	Not established
Methane, bromo- (74-83-9)	TWAs	1 ppm TWA	Not established	Not established	Not established	1 ppm TWA [VLE-MP]
	Ceilings	Not established	Not established	Not established	20 ppm Ceiling; 80 mg/m3 Ceiling	Not established
Chloroform (67-66-3)	TWAs	10 ppm TWA	2 ppm TWA; 10 mg/m3 TWA	Not established	Not established	10 ppm TWA [VLE-MP]
	Ceilings	Not established	Not established	Not established	50 ppm Ceiling; 240 mg/m3 Ceiling	Not established
	STELs	Not established	Not established	2 ppm STEL (60 min); 9.78 mg/m3 STEL (60 min)	Not established	Not established
Carbon tetrachloride (56-23-5)	STELs	10 ppm STEL	Not established	2 ppm STEL (60 min); 12.6 mg/m3 STEL (60 min)	Not established	10 ppm STEL
	TWAs	5 ppm TWA	Not established	Not established	10 ppm TWA	5 ppm TWA [VLE-MP]
	Ceilings	Not established	Not established	Not established	25 ppm Ceiling	Not established
Benzene, o-dichloro- (95-50-1)	STELs	50 ppm STEL	50 ppm STEL; 306 mg/m3 STEL	Not established	Not established	50 ppm STEL [VLE-CD]
	TWAs	25 ppm TWA	20 ppm TWA; 122 mg/m3 TWA	Not established	Not established	25 ppm TWA [VLE-MP]

	Ceilings	Not established	Not established	50 ppm Ceiling; 300 mg/m3 Ceiling	50 ppm Ceiling; 300 mg/m3 Ceiling	Not established
Benzene, p-dichloro- (106-46-7)	TWAs	10 ppm TWA	20 ppm TWA; 122 mg/m3 TWA	Not established	75 ppm TWA; 450 mg/m3 TWA	10 ppm TWA [VLE-MP]
	STELs	Not established	50 ppm STEL; 306 mg/m3 STEL	Not established	Not established	Not established
Methane, dichlorodifluoro- (75-71-8)	TWAs	1000 ppm TWA	Not established	1000 ppm TWA; 4950 mg/m3 TWA	1000 ppm TWA; 4950 mg/m3 TWA	1000 ppm TWA [VLE-MP]
Ethylbenzene (100-41-4)	STELs	Not established	200 ppm STEL; 884 mg/m3 STEL	125 ppm STEL; 545 mg/m3 STEL	Not established	125 ppm STEL [VLE-CD]
	TWAs	20 ppm TWA	100 ppm TWA; 442 mg/m3 TWA	100 ppm TWA; 435 mg/m3 TWA	100 ppm TWA; 435 mg/m3 TWA	100 ppm TWA [VLE-MP]
Ethenylbenzene (100-42-5)	STELs	40 ppm STEL	Not established	100 ppm STEL; 425 mg/m3 STEL	Not established	40 ppm STEL [VLE-CD]
	TWAs	20 ppm TWA	Not established	50 ppm TWA; 215 mg/m3 TWA	100 ppm TWA	20 ppm TWA [VLE-MP]
	Ceilings	Not established	Not established	Not established	200 ppm Ceiling	Not established
Benzene (71-43-2)	STELs	2.5 ppm STEL	Not established	1 ppm STEL	5 ppm STEL (see 29 CFR 1910.1028)	2.5 ppm STEL [VLE-CD]
	TWAs	0.5 ppm TWA	1 ppm TWA; 3.25 mg/m3 TWA	0.1 ppm TWA	10 ppm TWA (applies to industry segments exempt from the benzene standard at 29 CFR 1910.1028); 1 ppm TWA	0.5 ppm TWA [VLE-MP]
	Ceilings	Not established	Not established	Not established	25 ppm Ceiling	Not established
Dichloromethane (75-09-2)	TWAs	50 ppm TWA	Not established	Not established	25 ppm TWA	50 ppm TWA [VLE-MP]
	STELs	Not established	Not established	Not established	125 ppm STEL (see 29 CFR 1910.1052)	Not established
Ethylene, tetrachloro- (127-18-4)	STELs	100 ppm STEL	Not established	Not established	Not established	100 ppm STEL [VLE-CD]
	TWAs	25 ppm TWA	Not established	Not established	100 ppm TWA	25 ppm TWA [VLE-MP]
	Ceilings	Not established	Not established	Not established	200 ppm Ceiling	Not established
Ethylene, trichloro- (79-01-6)	STELs	100 ppm STEL	Not established	Not established	Not established	100 ppm STEL [VLE-CD]
	TWAs	10 ppm TWA	Not established	Not established	100 ppm TWA	50 ppm TWA [VLE-MP]
	Ceilings	Not established	Not established	Not established	200 ppm Ceiling	Not established
1,3-Butadiene, hexachloro- (87-68-3)	TWAs	0.02 ppm TWA	Not established	0.02 ppm TWA; 0.24 mg/m3 TWA	Not established	0.02 ppm TWA [VLE-MP]
Ethane, 1,1,1-trichloro- (71-55-6)	STELs	350 ppm STEL	200 ppm STEL; 1110 mg/m3 STEL	Not established	Not established	450 ppm STEL [VLE-CD]
	TWAs	200 ppm TWA	100 ppm TWA; 555 mg/m3 TWA	Not established	350 ppm TWA; 1900 mg/m3 TWA	350 ppm TWA [VLE-MP]
	Ceilings	Not established	Not established	350 ppm Ceiling (15 min); 1900 mg/m3	Not established	Not established

				Ceiling (15 min)		
Methane, trichlorofluoro- (75-69-4)	Ceilings	1000 ppm Ceiling	Not established	1000 ppm Ceiling; 5600 mg/m ³ Ceiling	Not established	1000 ppm Ceiling [VLE-CM]
	TWAs	Not established	Not established	Not established	1000 ppm TWA; 5600 mg/m ³ TWA	Not established
Benzene, 1,2,4-trichloro- (120-82-1)	Ceilings	5 ppm Ceiling	Not established	5 ppm Ceiling; 40 mg/m ³ Ceiling	Not established	5 ppm Ceiling [VLE-CM]
	STELs	Not established	5 ppm STEL; 37.8 mg/m ³ STEL	Not established	Not established	Not established
	TWAs	Not established	2 ppm TWA; 15.1 mg/m ³ TWA	Not established	Not established	Not established
Ethane, 1,1,2-trichloro-1,2,2-trifluoro- (76-13-1)	STELs	1250 ppm STEL	Not established	1250 ppm STEL; 9500 mg/m ³ STEL	Not established	1250 ppm STEL [VLE-CD]
	TWAs	1000 ppm TWA	Not established	1000 ppm TWA; 7600 mg/m ³ TWA	1000 ppm TWA; 7600 mg/m ³ TWA	1000 ppm TWA [VLE-MP]
Ethane, 1,1,2-trichloro- (79-00-5)	TWAs	10 ppm TWA	Not established	10 ppm TWA; 45 mg/m ³ TWA	10 ppm TWA; 45 mg/m ³ TWA	10 ppm TWA [VLE-MP]
Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro- (76-14-2)	TWAs	1000 ppm TWA (listed under Dichlorofluoroethane)	Not established	1000 ppm TWA; 7000 mg/m ³ TWA	1000 ppm TWA; 7000 mg/m ³ TWA	1000 ppm TWA [VLE-MP]
Ethane, 1,1,2,2-tetrachloro- (79-34-5)	TWAs	1 ppm TWA	Not established	1 ppm TWA; 7 mg/m ³ TWA	5 ppm TWA; 35 mg/m ³ TWA	1 ppm TWA [VLE-MP]
Ethane, 1,1-dichloro- (75-34-3)	TWAs	100 ppm TWA	100 ppm TWA; 412 mg/m ³ TWA	100 ppm TWA; 400 mg/m ³ TWA	100 ppm TWA; 400 mg/m ³ TWA	100 ppm TWA [VLE-MP]
Ethylene, 1,1-dichloro- (75-35-4)	TWAs	5 ppm TWA	Not established	Not established	Not established	5 ppm TWA [VLE-MP]
1,2,4-Trimethylbenzene (95-63-6)	TWAs	Not established	20 ppm TWA; 100 mg/m ³ TWA	25 ppm TWA; 125 mg/m ³ TWA	Not established	Not established
1,3,5-Trimethylbenzene (108-67-8)	TWAs	Not established	20 ppm TWA; 100 mg/m ³ TWA	25 ppm TWA; 125 mg/m ³ TWA	Not established	Not established
Ethane, 1,2-dibromo- (106-93-4)	STELs	3 ppm STEL	Not established	Not established	Not established	Not established
	TWAs	1 ppm TWA	Not established	0.045 ppm TWA	20 ppm TWA	Not established
	Ceilings	Not established	Not established	0.13 ppm Ceiling (15 min)	30 ppm Ceiling	Not established

Exposure Limits/Guidelines (Con't.)

	Result	Spain	Sweden
Ethane, chloro- (75-00-3)	TWAs	100 ppm TWA [VLA-ED] (indicative limit value); 268 mg/m ³ TWA [VLA-ED] (indicative limit value) 100 ppm TWA [VLA-ED] (indicative limit value); 268 mg/m ³ TWA [VLA-ED]	500 ppm LLV; 1300 mg/m ³ LLV 500 ppm LLV; 1300 mg/m ³ LLV

		(indicative limit value)	
	STELs	Not established	700 ppm STV; 1900 mg/m3 STV 700 ppm STV; 1900 mg/m3 STV
Propane, 1,2-dichloro- (78-87-5)	STELs	110 ppm STEL [VLA-EC]; 517 mg/m3 STEL [VLA-EC] 110 ppm STEL [VLA-EC]; 517 mg/m3 STEL [VLA-EC]	Not established
	TWAs	75 ppm TWA [VLA-ED]; 352 mg/m3 TWA [VLA-ED] 75 ppm TWA [VLA-ED]; 352 mg/m3 TWA [VLA-ED]	Not established
Benzene, chloro- (108-90-7)	STELs	15 ppm STEL [VLA-EC]; 70 mg/m3 STEL [VLA-EC]	15 ppm STV; 70 mg/m3 STV
	TWAs	5 ppm TWA [VLA-ED] (indicative limit value); 23 mg/m3 TWA [VLA-ED] (indicative limit value)	5 ppm LLV; 23 mg/m3 LLV
Toluene (108-88-3)	STELs	100 ppm STEL [VLA-EC]; 384 mg/m3 STEL [VLA-EC]	100 ppm STV; 400 mg/m3 STV
	TWAs	50 ppm TWA [VLA-ED] (indicative limit value; manufacturing, commercialization, and use restrictions under REACH); 192 mg/m3 TWA [VLA-ED] (indicative limit value; manufacturing, commercialization, and use restrictions under REACH)	50 ppm LLV; 200 mg/m3 LLV
	Biological Limit Values (BLV)	0.5 mg/L urine end of shift o-Cresol (2,F); 1.6 g/g Creatinine urine end of shift Hippuric acid (2,F,I); 0.05 mg/L blood start of last shift of workweek Toluene (5)	Not established
	STELs	100 ppm STEL [VLA-EC]; 442 mg/m3 STEL [VLA-EC]	100 ppm STV; 450 mg/m3 STV

o-Xylene (95-47-6)	TWAs	50 ppm TWA [VLA-ED] (indicative limit value); 221 mg/m ³ TWA [VLA-ED] (indicative limit value)	50 ppm LLV; 200 mg/m ³ LLV
p-Xylene (106-42-3)	STELs	100 ppm STEL [VLA-EC]; 442 mg/m ³ STEL [VLA-EC]	100 ppm STV; 450 mg/m ³ STV
	TWAs	50 ppm TWA [VLA-ED] (indicative limit value); 221 mg/m ³ TWA [VLA-ED] (indicative limit value)	50 ppm LLV; 200 mg/m ³ LLV
m-Xylene (108-38-3)	STELs	100 ppm STEL [VLA-EC]; 442 mg/m ³ STEL [VLA-EC]	100 ppm STV; 450 mg/m ³ STV
	TWAs	50 ppm TWA [VLA-ED] (indicative limit value); 221 mg/m ³ TWA [VLA-ED] (indicative limit value)	50 ppm LLV; 200 mg/m ³ LLV
Ethane, 1,2-dichloro- (107-06-2)	TWAs	5 ppm TWA [VLA-ED] (manufacturing, commercialization, and use restrictions under REACH); 20 mg/m ³ TWA [VLA-ED] (manufacturing, commercialization, and use restrictions under REACH)	1 ppm LLV; 4 mg/m ³ LLV
	STELs	Not established	5 ppm STV; 20 mg/m ³ STV
Methane, chloro- (74-87-3)	STELs	100 ppm STEL [VLA-EC]; 210 mg/m ³ STEL [VLA-EC]	20 ppm STV; 40 mg/m ³ STV
	TWAs	50 ppm TWA [VLA-ED]; 105 mg/m ³ TWA [VLA-ED]	10 ppm LLV; 20 mg/m ³ LLV
Vinyl Chloride (75-01-4)	TWAs	3 ppm TWA [VLA-ED] (manufacturing, commercialization, and use restrictions under REACH; worker protection to exposure to carcinogens and mutagens in the workplace); 7.8 mg/m ³ TWA [VLA-ED] (manufacturing, commercialization, and use restrictions under REACH; worker protection to exposure to carcinogens and mutagens in the workplace)	1 ppm LLV; 2.5 mg/m ³ LLV

	STELs	Not established	5 ppm STV; 13 mg/m ³ STV
Methane, bromo- (74-83-9)	TWAs	1 ppm TWA [VLA-ED] (endocrine disrupter; it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary o biocide compound; established restrictions in the manufacturing, import, export, use, commercialization, reclamation, recycling, regeneration, and elimination of this substance); 4 mg/m ³ TWA [VLA-ED] (endocrine disrupter; it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary o biocide compound; established restrictions in the manufacturing, import, export, use, commercialization, reclamation, recycling, regeneration, and elimination of this substance)	5 ppm LLV; 19 mg/m ³ LLV
	STELs	Not established	10 ppm STV; 40 mg/m ³ STV
Chloroform (67-66-3)	TWAs	2 ppm TWA [VLA-ED] (indicative limit value; manufacturing, commercialization, and use restrictions under REACH); 10 mg/m ³ TWA [VLA-ED] (indicative limit value; manufacturing, commercialization, and use restrictions under REACH)	2 ppm LLV; 10 mg/m ³ LLV
	STELs	Not established	5 ppm STV; 25 mg/m ³ STV
	STELs	10 ppm STEL [VLA-EC]; 64 mg/m ³ STEL [VLA-EC]	3 ppm STV; 19 mg/m ³ STV
		5 ppm TWA [VLA-ED] (established restrictions in the manufacturing, import, export, use,	

Carbon tetrachloride (56-23-5)	TWAs	commercialization, reclamation, recycling, regeneration, and elimination of ozone depleting substances); 32 mg/m3 TWA [VLA-ED] (established restrictions in the manufacturing, import, export, use, commercialization, reclamation, recycling, regeneration, and elimination of ozone depleting substances)	2 ppm LLV; 13 mg/m3 LLV
Benzene, o-dichloro- (95-50-1)	STELs	50 ppm STEL [VLA-EC]; 306 mg/m3 STEL [VLA-EC]	Not established
	TWAs	20 ppm TWA [VLA-ED] (indicative limit value); 122 mg/m3 TWA [VLA-ED] (indicative limit value)	25 ppm LLV; 150 mg/m3 LLV
	Ceilings	Not established	50 ppm CLV; 300 mg/m3 CLV
Benzene, p-dichloro- (106-46-7)	STELs	50 ppm STEL [VLA-EC]; 306 mg/m3 STEL [VLA-EC]	20 ppm STV; 120 mg/m3 STV
	TWAs	20 ppm TWA [VLA-ED] (indicative limit value); 122 mg/m3 TWA [VLA-ED] (indicative limit value)	10 ppm LLV; 60 mg/m3 LLV
Methane, dichlorodifluoro- (75-71-8)	TWAs	1000 ppm TWA [VLA-ED]; 4115 mg/m3 TWA [VLA-ED]	500 ppm LLV; 2500 mg/m3 LLV
	STELs	Not established	750 ppm STV; 4000 mg/m3 STV
Ethylbenzene (100-41-4)	STELs	200 ppm STEL [VLA-EC]; 884 mg/m3 STEL [VLA-EC]	100 ppm STV; 450 mg/m3 STV
	TWAs	100 ppm TWA [VLA-ED] (indicative limit value); 441 mg/m3 TWA [VLA-ED] (indicative limit value)	50 ppm LLV; 200 mg/m3 LLV
	Biological Limit Values (BLV)	700 mg/g Creatinine urine end of workweek Mandelic acid plus Phenylglyoxylic acid (1,I,S)	Not established
	STELs	40 ppm STEL [VLA-EC]; 172 mg/m3 STEL [VLA-EC]	50 ppm STV; 200 mg/m3 STV
		20 ppm TWA [VLA-ED]	

Ethenylbenzene (100-42-5)	TWAs	(endocrine disrupter); 86 mg/m3 TWA [VLA-ED] (endocrine disrupter)	20 ppm LLV; 90 mg/m3 LLV
	Biological Limit Values (BLV)	400 mg/g Creatinine end of shift Mandelic acid plus Phenylglyoxylic acid (2,1); 0.2 mg/L venous blood end of shift Styrene (2,S)	Not established
Benzene (71-43-2)	TWAs	1 ppm TWA [VLA-ED] (manufacturing, commercialization, and use restrictions under REACH; worker protection to exposure to carcinogens and mutagens in the workplace); 3.25 mg/m3 TWA [VLA-ED] (manufacturing, commercialization, and use restrictions under REACH; worker protection to carcinogens in the workplace)	0.5 ppm LLV; 1.5 mg/m3 LLV
	Biological Limit Values (BLV)	0.045 mg/g urine end of exposure or end of shift S-Phenylmercapturic acid (2); 2 mg/L urine end of exposure or end of shift trans,trans-Muconic acid (2); 5 µg/L blood end of exposure or end of shift Total benzene (2)	Not established
	STELs	Not established	3 ppm STV; 9 mg/m3 STV
Dichloromethane (75-09-2)	TWAs	50 ppm TWA [VLA-ED] (manufacturing, commercialization, and use restrictions under REACH); 177 mg/m3 TWA [VLA-ED] (manufacturing, commercialization, and use restrictions under REACH)	35 ppm LLV; 120 mg/m3 LLV
	Biological Limit Values (BLV)	0.3 mg/L urine end of shift Dichloromethane (2)	Not established
	STELs	Not established	70 ppm STV; 250 mg/m3 STV

Ethylene, tetrachloro- (127-18-4)	STELs	100 ppm STEL [VLA-EC]; 689 mg/m ³ STEL [VLA-EC]	25 ppm STV; 170 mg/m ³ STV
	TWAs	25 ppm TWA [VLA-ED] (endocrine disrupter); 172 mg/m ³ TWA [VLA-ED] (endocrine disrupter)	10 ppm LLV; 70 mg/m ³ LLV
	Biological Limit Values (BLV)	3 ppm alveolar air start of last shift of workweek Perchloroethylene end-cut of exhaled air (5); 0.5 mg/L blood start of last shift of workweek Perchloroethylene (5)	Not established
Ethylene, trichloro- (79-01-6)	TWAs	10 ppm TWA [VLA-ED] (manufacturing, commercialization, and use restrictions under REACH)	10 ppm LLV; 50 mg/m ³ LLV
	Biological Limit Values (BLV)	15 mg/L urine end of workweek Trichloroacetic acid (1,l); 0.5 mg/L blood end of workweek Trichloroethanol (without hydrolysis) (1,l)	Not established
	STELs	Not established	25 ppm STV; 140 mg/m ³ STV
1,3-Butadiene, hexachloro- (87-68-3)	TWAs	0.02 ppm TWA [VLA-ED]; 0.2 mg/m ³ TWA [VLA-ED]	Not established
Ethane, 1,1,1-trichloro- (71-55-6)	STELs	200 ppm STEL [VLA-EC]; 1110 mg/m ³ STEL [VLA-EC]	90 ppm STV; 500 mg/m ³ STV
	TWAs	100 ppm TWA [VLA-ED] (indicative limit value; established restrictions in the manufacturing, import, export, use, commercialization, reclamation, recycling, regeneration, and elimination of ozone depleting substances); 555 mg/m ³ TWA [VLA-ED] (indicative limit value; established restrictions in the manufacturing, import, export, use, commercialization, reclamation, recycling, regeneration, and	50 ppm LLV; 300 mg/m ³ LLV

		elimination of ozone depleting substances)	
	Under Review	Medium: blood Parameter: Trichloroethane (to withdraw due to insufficient data to support limit values)	Not established
	Biological Limit Values (BLV)	550 µg/L blood start of last shift of workweek Trichloroethane (5)	Not established
Methane, trichlorofluoro- (75-69-4)	STELs	1000 ppm STEL [VLA-EC]; 5720 mg/m3 STEL [VLA-EC]	750 ppm STV; 4500 mg/m3 STV
	TWAs	Not established	500 ppm LLV; 3000 mg/m3 LLV
Benzene, 1,2,4-trichloro- (120-82-1)	STELs	5 ppm STEL [VLA-EC]; 38 mg/m3 STEL [VLA-EC]	5 ppm STV; 37.8 mg/m3 STV
	TWAs	2 ppm TWA [VLA-ED] (indicative limit value; manufacturing, commercialization, and use restrictions under REACH); 15 mg/m3 TWA [VLA-ED] (indicative limit value; manufacturing, commercialization, and use restrictions under REACH)	2 ppm LLV; 15.1 mg/m3 LLV
Ethane, 1,1,2-trichloro-1,2,2-trifluoro- (76-13-1)	STELs	1250 ppm STEL [VLA-EC]; 9745 mg/m3 STEL [VLA-EC]	750 ppm STV; 6000 mg/m3 STV
	TWAs	1000 ppm TWA [VLA-ED] (established restrictions in the manufacturing, import, export, use, commercialization, reclamation, recycling, regeneration, and elimination of ozone depleting substances); 7795 mg/m3 TWA [VLA-ED] (established restrictions in the manufacturing, import, export, use, commercialization, reclamation, recycling, regeneration, and elimination of ozone depleting substances)	500 ppm LLV; 4000 mg/m3 LLV
		10 ppm TWA [VLA-ED] (manufacturing,	

Ethane, 1,1,2-trichloro- (79-00-5)	TWAs	commercialization, and use restrictions under REACH); 56 mg/m3 TWA [VLA-ED] (manufacturing, commercialization, and use restrictions under REACH)	Not established
Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro- (76-14-2)	STELs	1250 ppm STEL [VLA-EC]; 8890 mg/m3 STEL [VLA-EC]	Not established
	TWAs	1000 ppm TWA [VLA-ED] (established restrictions in the manufacturing, import, export, use, commercialization, reclamation, recycling, regeneration, and elimination of ozone depleting substances); 7110 mg/m3 TWA [VLA-ED] (established restrictions in the manufacturing, import, export, use, commercialization, reclamation, recycling, regeneration, and elimination of ozone depleting substances)	Not established
Ethane, 1,1,2,2-tetrachloro- (79-34-5)	TWAs	1 ppm TWA [VLA-ED] (manufacturing, commercialization, and use restrictions under REACH); 7 mg/m3 TWA [VLA-ED] (manufacturing, commercialization, and use restrictions under REACH)	Not established
Ethane, 1,1-dichloro- (75-34-3)	TWAs	100 ppm TWA [VLA-ED] (indicative limit value; manufacturing, commercialization, and use restrictions under REACH); 412 mg/m3 TWA [VLA-ED] (indicative limit value; manufacturing, commercialization, and use restrictions under REACH)	100 ppm LLV; 412 mg/m3 LLV
Ethylene, 1,1-	TWAs	5 ppm TWA [VLA-ED] (manufacturing, commercialization, and use restrictions under REACH); 20 mg/m3 TWA [VLA-ED]	5 ppm LLV; 20 mg/m3 LLV

Vapor Pressure	Data lacking	Vapor Density	0.97 Air=1 Nitrogen
Evaporation Rate	Data lacking		
Flammability			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	Not relevant
Flammability (solid, gas)	Not flammable.		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- Excess heat.

10.5 Incompatible materials

- No data available

10.6 Hazardous decomposition products

- Toxic Carbon Monoxide, Hydrogen Bromide, Hydrogen Chloride.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Other Material Information

- This material contains multiple components, with concentrations in ppb, that can or may cause carcinogenic, mutagenic, reproductive and other effects. No exposure that would cause hazardous effects is expected because these components are present in such small amounts.

Component Name	CAS	Data
Benzene (1ppm)	71-43-2	Acute Toxicity: orl-rat LD50:1800 mg/kg; ihl-rat LC50:10000 ppm/7H; Irritation: eye-rbt 2 mg/24H SEV; skn-rbt 15 mg/24H open MLD; Mutagen: sce-mus-ihl 10 ppm/6H; Reproductive: ihl-rat TCLo:50 ppm/24H (7-14D preg); Tumorigen/Carcinogen: orl-rat TD :52 gm/kg/1Y-l
Methane, bromo- (1ppm)	74-83-9	Acute Toxicity: orl-rat LD50:214 mg/kg; ihl-rat LC50:302 ppm/8H; ihl-mus TCLo:160 ppm/6H/6W-l; Mutagen: mnt-mus-ihl 100 ppm/6H/14D-l; sce-mus-ihl 200 ppm/6H/14D-l; mnt-rat-ihl 338 ppm/6H/14D-l
Carbon tetrachloride (1ppm)	56-23-5	Acute Toxicity: orl-rat LD50:2350 mg/kg; ihl-rat LC50:8000 ppm/4H; Irritation: eye-rbt 500 mg/24H MLD; Reproductive: ihl-rat TCLo:250 ppm/8H (10-15D preg)

Benzene, chloro- (1ppm)	108-90-7	Acute Toxicity: orl-rat LD50:1110 mg/kg; orl-gpg TDL0:441 mg/kg/63W-I; ihl-rat LC50:2965 ppm; Mutagen: cyt-rat-ihl 500 ug/L/275D-I; Reproductive: ihl-rat TCLo:75 ppm/6H (6-15D preg)
Chloroform (1ppm)	67-66-3	Acute Toxicity: orl-rat LD50:300 mg/kg; ihl-mus LC50:6000 mg/m3/6H; skn-rbt LD50:>20 gm/kg; Irritation: eye-rbt 20 mg/24H MOD; skn-rbt 10 mg/24H open MLD; Reproductive: ihl-rat TCLo:300 ppm/7H (6-15D preg)
Methane, chloro- (1ppm)	74-87-3	Acute Toxicity: orl-rat LD50:1800 mg/kg; ihl-rat LC50:5300 mg/m3/4H; Reproductive: ihl-mus TCLo:750 ppm/6H (6-17D preg); ihl-mus TCLo:500 ppm/6H (6-18D preg); ihl-rat TCLo:1500 ppm/6H (7-20D preg)
Ethylene, 1,2-dichloro-, (Z)- (1ppm)	156-59-2	Acute Toxicity: ihl-rat LC50:13700 ppm; ihl-cat LCLo:20 gm/m3/6H; ihl-mus LCLo:65 gm/m3/2H
Ethane, 1,2-dibromo- (1ppm)	106-93-4	Mutagen: mtr-mus-ori 75 mg/kg; dns-rat-ori 75 gm/kg; Reproductive: orl-rat TDL0:50 mg/kg (5D male); Tumorigen/Carcinogen: ihl-rat TCLo:327.6 mg/kg/78W-C
Benzene, o-dichloro- (1ppm)	95-50-1	Acute Toxicity: orl-rbt LD50:500 mg/kg; ihl-rat LC50:8150 mg/m3/4H; skn-rbt LD50:>10 gm/kg
Benzene, p-dichloro- (1ppm)	106-46-7	Acute Toxicity: orl-rat LD50:500 mg/kg; ihl-rat LC50:5000 mg/m3/4H; skn-rat LD50:2000 mg/kg
Ethane, 1,1-dichloro- (1ppm)	75-34-3	Acute Toxicity: orl-rat LD50:725 mg/kg; ihl-rat LC50:13000 ppm/4H; Reproductive: ihl-rat TCLo:6000 ppm/7H (6-15D preg); Tumorigen/Carcinogen: orl-mus TDL0:185 gm/kg/78W-I
Ethane, 1,2-dichloro- (1ppm)	107-06-2	Acute Toxicity: orl-rat LD50:500 mg/kg; ihl-rat LC50:1000 ppm/7H; ihl-rat LC50:5100 mg/m3/6H; Irritation: eye-rbt 500 mg/24H MLD; skn-rbt 500 mg/24H MLD; Tumorigen/Carcinogen: ihl-mus TCLo:5 ppm/7H/78W-I
Ethylene, 1,1-dichloro- (1ppm)	75-35-4	Acute Toxicity: orl-rat LD50:200 mg/kg; ihl-rat LC50:6350 ppm/4H; Reproductive: ihl-rat TCLo:80 ppm/7H (6-15D preg); ihl-rat TCLo:55 ppm/6H (55D pre); Tumorigen/Carcinogen: ihl-mus TC :55 ppm/6H/52W-I
Propane, 1,2-dichloro- (1ppm)	78-87-5	Acute Toxicity: orl-rat LD50:1900 mg/kg; ihl-rat LC50:300 ppm/8H; ihl-dog TCLo:1000 ppm/7H/26W-I; ihl-gpg TCLo:1500 ppm/7H/8W-I; skn-rbt LD50:8750 mg/kg; Irritation: eye-rbt 500 mg MLD; Reproductive: orl-rat TDL0:1250 mg/kg (6-15D preg)
Ethane, chloro- (1ppm)	75-00-3	Acute Toxicity: ihl-rat LC50:150000 mg/m3/2H; ihl-rat TCLo:14 gm/m3/2H/60D-I; Tumorigen/Carcinogen: ihl-rat TCLo:463500 mg/kg/103W-I
Ethylbenzene (1ppm)	100-41-4	Acute Toxicity: orl-rat LD50:3500 mg/kg; ihl-rat LC50:55000 mg/m3/2H; skn-rbt LD50:17800 uL/kg; Irritation: eye-rbt 500 mg SEV; skn-rbt 15 mg/24H open MLD; Reproductive: ihl-rat TCLo:1000 ppm (6H/6-20D preg); Tumorigen/Carcinogen: ihl-mus TCLo:750 ppm/1W-I
Methane, trichlorofluoro- (1ppm)	75-69-4	Acute Toxicity: ihl-rat LC50:13 pph/15M
Ethane, 1,1,2-trichloro-1,2,2-trifluoro- (1ppm)	76-13-1	Acute Toxicity: orl-rat LD50:43 gm/kg; ihl-rat LC50:38000 ppm/4H; Irritation: skn-rbt 500 mg open MLD
Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro- (1ppm)	76-14-2	Acute Toxicity: ihl-rat LC50:72 pph/30M
1,3-Butadiene, hexachloro- (1ppm)	87-68-3	Acute Toxicity: orl-rat LD50:82 mg/kg; ihl-rat LC50:630 mg/m3/4H; ihl-rat TCLo:100 ppm/6H/2W-I; skn-rbt LD50:100 mg/kg; Irritation: eye-rbt 162 mg MLD; skn-rbt 500 mg/24H MLD; Reproductive: orl-rat TDL0:75 mg/kg (multigenerations)
Dichloromethane (1ppm)	75-09-2	Acute Toxicity: orl-rat LD50:985 mg/kg; ihl-rat LC50:76000 mg/m3/4H; Irritation: eye-rbt 162 mg MOD; skn-rbt 810 mg/24H SEV; Reproductive: ihl-mus TCLo:1250 ppm/7H (6-15D preg)
		Acute Toxicity: orl-rat LD50:2650 mg/kg; ihl-rat LC50:2770 ppm/4H;

Ethenylbenzene (1ppm)	100-42-5	Irritation: eye-rbt 100 mg SEV; skn-rbt 100% MOD; Reproductive: ihl-rat TCLo:1500 ug/m3/24H (1-22D preg)
Ethane, 1,1,2,2-tetrachloro- (1ppm)	79-34-5	Acute Toxicity: orl-rat LD50:200 mg/kg; Tumorigen/Carcinogen: orl-rat TDLo:42 gm/kg/78W-I
Ethylene, tetrachloro- (1ppm)	127-18-4	Acute Toxicity: orl-rat LD50:2629 mg/kg; orl-mus TDLo:500 mg/kg; ihl-rat LC50:4100 ppm/6H; Irritation: eye-rbt 500 mg/24H MLD; skn-rbt 810 mg/24H SEV; Reproductive: ihl-rat TCLo:300 ppm/7H (6-15D preg); ihl-rat TCLo:250 ppm (6-19D preg); Tumorigen/Carcinogen: ihl-rat TCLo:200 ppm/6H/2Y-I
Toluene (1ppm)	108-88-3	Acute Toxicity: orl-rat LD50:636 mg/kg; ihl-rat LC50:49 gm/m3/4H; skn-rbt LD50:14100 uL/kg; Irritation: eye-rbt 100 mg/30S rinse MLD; skn-rbt 435 mg MLD; Reproductive: ihl-rat TCLo:1500 ppm (7-20D preg)
Benzene, 1,2,4-trichloro- (1ppm)	120-82-1	Acute Toxicity: orl-rat LD50:756 mg/kg; Irritation: skn-rbt 1950 mg/13W-I MOD; Reproductive: orl-rat TDLo:1800 mg/kg (9-13D preg); Tumorigen/Carcinogen: orl-mus TDLo:2336 gm/kg/2Y-C
Ethane, 1,1,1-trichloro- (1ppm)	71-55-6	Acute Toxicity: orl-rbt LD50:5660 mg/kg; orl-rat TDLo:109 gm/kg/13W-C; ihl-rat LC50:17000 ppm/4H; ihl-rat TCLo:8000 ppm/7H; Irritation: eye-rbt 2 mg/24H SEV; skn-rbt 20 mg/24H MOD; Reproductive: orl-rat TDLo:43 mg/kg (1-22D preg/21D post); ihl-rat TCLo:2100 ppm/6H (1-20D preg)
Ethane, 1,1,2-trichloro- (1ppm)	79-00-5	Acute Toxicity: orl-rat LD50:580 mg/kg; Irritation: eye-rbt 500 mg/24H MLD; skn-rbt 500 mg/24H MLD; Mutagen: cyt-gpg-skn 2880 ug/kg
Ethylene, trichloro- (1ppm)	79-01-6	Acute Toxicity: orl-rat LD50:4920 mg/kg; ihl-rat LC50:140700 mg/m3/1H; skn-rbt LD50:20 mL/kg; Irritation: eye-rbt 20 mg/24H MOD; skn-rbt 2 mg/24H SEV
1,2,4-Trimethylbenzene (1ppm)	95-63-6	Acute Toxicity: orl-rat LD50:5 gm/kg; ihl-rat LC50:18000 mg/m3/4H
1,3,5-Trimethylbenzene (1ppm)	108-67-8	Acute Toxicity: orl-rat LD50:5000 mg/kg; ihl-rat LC50:24000 mg/m3/4H; Irritation: eye-rbt 500 mg/24H MLD; skn-rbt 20 mg/24H MOD
Vinyl Chloride (1ppm)	75-01-4	Acute Toxicity: orl-rat LD50:500 mg/kg; ihl-rat LC50:18 pph/15M; Reproductive: ihl-mus TCLo:500 ppm/7H (6-15D preg)
m-Xylene (1ppm)	108-38-3	Acute Toxicity: orl-rat LD50:4988 mg/kg; skn-rbt LD50:14100 uL/kg; Irritation: eye-rbt 5 mg/24H SEV; skn-rbt 10 ug/24H open SEV; Reproductive: ihl-rat TCLo:3000 mg/m3/24H (7-14D preg)
o-Xylene (1ppm)	95-47-6	Acute Toxicity: orl-rat LD50:3567 mg/kg; Reproductive: ihl-rat TCLo:1500 mg/m3/24H (7-14D preg)
p-Xylene (1ppm)	106-42-3	Acute Toxicity: orl-rat LD50:3910 mg/kg; ihl-rat LC50:4550 ppm/4H

GHS Properties	Classification
Acute toxicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Skin corrosion/Irritation	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met

Skin sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
STOT-RE	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
STOT-SE	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Toxicity for Reproduction	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met

Route(s) of entry/exposure • Inhalation, Skin, Eye, Ingestion

Potential Health Effects

Inhalation

Acute (Immediate)

- This material is a simple asphyxiant. May displace or reduce oxygen available for breathing especially in confined spaces. If this material is released in a small, poorly ventilated area (i.e. an enclosed or confined space), an oxygen-deficient environment may occur. Individuals breathing such an atmosphere may experience symptoms which include headaches, ringing in ears, dizziness, drowsiness, unconsciousness, nausea, vomiting, and depression of all the senses. Under some circumstances of over-exposure, death may occur. The following effects associated with decreased levels of oxygen: increase in breathing and pulse rate, emotional upset, abnormal fatigue, nausea, vomiting, collapse, loss of consciousness, convulsive movements, respiratory collapse and death.

Chronic (Delayed)

- No data available

Skin

Acute (Immediate)

- Under normal conditions of use, no health effects are expected.

Chronic (Delayed)

- No data available

Eye

Acute (Immediate)

- Under normal conditions of use, no health effects are expected.

Chronic (Delayed)

- No data available

Ingestion

Acute (Immediate)

- Ingestion is not anticipated to be a likely route of exposure to this product.

Chronic (Delayed)

- No data available

Mutagenic Effects

- Material level data is not available however this gas mixture contains ingredients which may cause mutagenic effects upon prolonged and repeated exposure. Exposure in amounts that would cause mutagenic effects is not expected as these components are present in very small amounts.

Carcinogenic Effects

- Material level data is not available however this gas mixture contains ingredients which may cause carcinogenic effects upon prolonged and repeated exposure.

Carcinogenic Effects				
	CAS	OSHA	IARC	NTP
Benzene	71-43-2	Specifically Regulated Carcinogen	Group 1-Carcinogenic	Known Human Carcinogen
Benzene, p-dichloro-	106-46-7	Not Listed	Group 2B-Possible Carcinogen	Reasonably Anticipated to be Human Carcinogen
Carbon tetrachloride	56-23-5	Not Listed	Group 2B-Possible Carcinogen	Reasonably Anticipated to be Human Carcinogen

Chloroform	67-66-3	Not Listed	Group 2B-Possible Carcinogen	Reasonably Anticipated to be Human Carcinogen
Dichloromethane	75-09-2	Specifically Regulated Carcinogen	Group 2B-Possible Carcinogen	Reasonably Anticipated to be Human Carcinogen
Ethane, 1,2-dibromo-	106-93-4	Not Listed	Group 2A-Probable Carcinogen	Reasonably Anticipated to be Human Carcinogen
Ethane, 1,2-dichloro-	107-06-2	Not Listed	Group 2B-Possible Carcinogen	Reasonably Anticipated to be Human Carcinogen
Ethylbenzene	100-42-5	Not Listed	Group 2B-Possible Carcinogen	Reasonably Anticipated to be Human Carcinogen
Ethylbenzene	100-41-4	Not Listed	Group 2B-Possible Carcinogen	Not Listed
Ethylene, tetrachloro-	127-18-4	Not Listed	Group 2A-Probable Carcinogen	Reasonably Anticipated to be Human Carcinogen
Ethylene, trichloro-	79-01-6	Not Listed	Group 2A-Probable Carcinogen	Reasonably Anticipated to be Human Carcinogen
Vinyl Chloride	75-01-4	Specifically Regulated Carcinogen	Group 1-Carcinogenic	Known Human Carcinogen

Reproductive Effects

- Exposure at levels that would cause reproductive or developmental effects is not expected. However, this material does contain components that can or may cause reproductive and/or developmental effects.

Key to abbreviations

TC = Toxic Concentration	MOD = Moderate
LD = Lethal Dose	SEV = Severe
MLD = Mild	LC = Lethal Concentration

Section 12 - Ecological Information**12.1 Toxicity**

- Material data lacking.

12.2 Persistence and degradability

- Material data lacking.

12.3 Bioaccumulative potential

- Material data lacking.

12.4 Mobility in Soil

- Material data lacking.

12.5 Results of PBT and vPvB assessment

- PBT and vPvB assessment has not been conducted for this material.

12.6 Other adverse effects

- Material data lacking.

Section 13 - Disposal Considerations**13.1 Waste treatment methods****Product waste**

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	UN1956	Compressed gas, n.o.s. (Nitrogen)	2.2	NDA	NDA
TDG	UN1956	COMPRESSED GAS, N.O.S. (Nitrogen)	2.2	NDA	NDA
IMO/IMDG	UN1956	COMPRESSED GAS, N.O.S. (Nitrogen)	2.2	NDA	NDA
IATA/ICAO	UN1956	Compressed gas, n.o.s. (Nitrogen)	2.2	NDA	NDA

14.6 Special precautions for user

- Cylinders should be transported in a secure position, in a well-ventilated vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles can present serious safety hazards. If transporting these cylinders in vehicles, ensure these cylinders are not exposed to extremely high temperatures (as may occur in an enclosed vehicle on a hot day). Additionally, the vehicle should be well-ventilated during transportation.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

- Not relevant.

Section 15 - Regulatory Information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

SARA Hazard Classifications ● Pressure(Sudden Release of), Acute

State Right To Know				
Component	CAS	MA	NJ	PA
Benzene	71-43-2	Yes	Yes	Yes
Methane, bromo-	74-83-9	Yes	Yes	Yes
Carbon tetrachloride	56-23-5	Yes	Yes	Yes
Benzene, chloro-	108-90-7	Yes	Yes	Yes
Chloroform	67-66-3	Yes	Yes	Yes
Methane, chloro-	74-87-3	Yes	Yes	Yes
Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Yes	No	Yes
		Yes		Yes
Propene, 1,3-dichloro-, (Z)-	10061-01-5	Yes	No	Yes
		Yes		Yes
Ethane, 1,2-dibromo-	106-93-4	Yes	Yes	Yes
Benzene, o-dichloro-	95-50-1	Yes	Yes	Yes

Benzene, m-dichloro-	541-73-1	Yes	Yes	Yes
Benzene, p-dichloro-	106-46-7	Yes	Yes	Yes
Ethane, 1,1-dichloro-	75-34-3	Yes	Yes	Yes
Ethane, 1,2-dichloro-	107-06-2	Yes	Yes	Yes
Ethylene, 1,1-dichloro-	75-35-4	Yes	Yes	Yes
Propane, 1,2-dichloro-	78-87-5	Yes	Yes	Yes
Ethane, chloro-	75-00-3	Yes	Yes	Yes
Ethylbenzene	100-41-4	Yes	Yes	Yes
Methane, trichlorofluoro-	75-69-4	Yes	Yes	Yes
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Yes	Yes	Yes
Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Yes	Yes	No
Methane, dichlorodifluoro-	75-71-8	Yes	Yes	Yes
1,3-Butadiene, hexachloro-	87-68-3	Yes	Yes	Yes
Dichloromethane	75-09-2	Yes	Yes	Yes
Ethenylbenzene	100-42-5	Yes	Yes	Yes
Ethane, 1,1,2,2-tetrachloro-	79-34-5	Yes	Yes	Yes
Ethylene, tetrachloro-	127-18-4	Yes	Yes	Yes
Toluene	108-88-3	Yes	Yes	Yes
Propene, 1,3-dichloro-, (E)-	10061-02-6	Yes	Yes	No
Benzene, 1,2,4-trichloro-	120-82-1	Yes	Yes	Yes
Ethane, 1,1,1-trichloro-	71-55-6	Yes	Yes	Yes
Ethane, 1,1,2-trichloro-	79-00-5	Yes	Yes	Yes
Ethylene, trichloro-	79-01-6	Yes	Yes	Yes
1,2,4-Trimethylbenzene	95-63-6	Yes	Yes	Yes
1,3,5-Trimethylbenzene	108-67-8	Yes	No	No
Vinyl Chloride	75-01-4	Yes	Yes	Yes

m-Xylene	108-38-3	Yes	Yes	Yes
o-Xylene	95-47-6	Yes	Yes	Yes
p-Xylene	106-42-3	Yes	Yes	Yes
Nitrogen	7727-37-9	Yes	Yes	Yes

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Benzene	71-43-2	Yes	No	Yes	Yes	No
Methane, bromo-	74-83-9	Yes	No	Yes	Yes	No
Carbon tetrachloride	56-23-5	Yes	No	Yes	Yes	No
Benzene, chloro-	108-90-7	Yes	No	Yes	Yes	No
Chloroform	67-66-3	Yes	No	Yes	Yes	No
Methane, chloro-	74-87-3	Yes	No	Yes	Yes	No
Ethylene, 1,2-dichloro-, (Z)-	156-59-2	No	Yes	Yes	Yes	No
Propene, 1,3-dichloro-, (Z)-	10061-01-5	No	No	No	Yes	No
Ethane, 1,2-dibromo-	106-93-4	Yes	No	Yes	Yes	No
Benzene, o-dichloro-	95-50-1	Yes	No	Yes	Yes	No
Benzene, m-dichloro-	541-73-1	Yes	No	Yes	Yes	No
Benzene, p-dichloro-	106-46-7	Yes	No	Yes	Yes	No
Ethane, 1,1-dichloro-	75-34-3	No	Yes	Yes	Yes	No
Ethane, 1,2-dichloro-	107-06-2	Yes	No	Yes	Yes	No
Ethylene, 1,1-dichloro-	75-35-4	Yes	No	Yes	Yes	No
Propane, 1,2-dichloro-	78-87-5	Yes	No	Yes	Yes	No
Ethane, chloro-	75-00-3	Yes	No	Yes	Yes	No
Ethylbenzene	100-41-4	Yes	No	Yes	Yes	No
Methane, trichlorofluoro-	75-69-4	Yes	No	Yes	Yes	No
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Yes	No	Yes	Yes	No
Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Yes	No	Yes	Yes	Yes

Methane, dichlorodifluoro-	75-71-8	Yes	No	Yes	Yes	No
1,3-Butadiene, hexachloro-	87-68-3	Yes	No	Yes	Yes	No
Dichloromethane	75-09-2	Yes	No	Yes	Yes	No
Ethylbenzene	100-42-5	Yes	No	Yes	Yes	No
Ethane, 1,1,2,2-tetrachloro-	79-34-5	Yes	No	Yes	Yes	No
Ethylene, tetrachloro-	127-18-4	Yes	No	Yes	Yes	No
Toluene	108-88-3	Yes	No	Yes	Yes	No
Propene, 1,3-dichloro-, (E)-	10061-02-6	No	Yes	Yes	No	No
Benzene, 1,2,4-trichloro-	120-82-1	Yes	No	Yes	Yes	No
Ethane, 1,1,1-trichloro-	71-55-6	Yes	No	Yes	Yes	No
Ethane, 1,1,2-trichloro-	79-00-5	Yes	No	Yes	Yes	No
Ethylene, trichloro-	79-01-6	Yes	No	Yes	Yes	No
1,2,4-Trimethylbenzene	95-63-6	Yes	No	Yes	Yes	No
1,3,5-Trimethylbenzene	108-67-8	Yes	No	Yes	Yes	No
Vinyl Chloride	75-01-4	Yes	No	Yes	Yes	No
m-Xylene	108-38-3	Yes	No	Yes	Yes	No
o-Xylene	95-47-6	Yes	No	Yes	Yes	No
p-Xylene	106-42-3	Yes	No	Yes	Yes	No
Nitrogen	7727-37-9	Yes	No	Yes	Yes	No

Inventory (Con't.)

Component	CAS	TSCA
Benzene	71-43-2	Yes
Methane, bromo-	74-83-9	Yes
Carbon tetrachloride	56-23-5	Yes
Benzene, chloro-	108-90-7	Yes
Chloroform	67-66-3	Yes
Methane, chloro-	74-87-3	Yes
Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Yes Yes
Propene, 1,3-dichloro-, (Z)-	10061-01-5	No
Ethane, 1,2-dibromo-	106-93-4	Yes
Benzene, o-dichloro-	95-50-1	Yes
Benzene, m-dichloro-	541-73-1	Yes

Benzene, p-dichloro-	106-46-7	Yes
Ethane, 1,1-dichloro-	75-34-3	Yes
Ethane, 1,2-dichloro-	107-06-2	Yes
Ethylene, 1,1-dichloro-	75-35-4	Yes
Propane, 1,2-dichloro-	78-87-5	Yes
Ethane, chloro-	75-00-3	Yes
Ethylbenzene	100-41-4	Yes
Methane, trichlorofluoro-	75-69-4	Yes
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Yes
Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Yes
Methane, dichlorodifluoro-	75-71-8	Yes
1,3-Butadiene, hexachloro-	87-68-3	Yes
Dichloromethane	75-09-2	Yes
Ethenylbenzene	100-42-5	Yes
Ethane, 1,1,2,2-tetrachloro-	79-34-5	Yes
Ethylene, tetrachloro-	127-18-4	Yes
Toluene	108-88-3	Yes
Propene, 1,3-dichloro-, (E)-	10061-02-6	Yes
Benzene, 1,2,4-trichloro-	120-82-1	Yes
Ethane, 1,1,1-trichloro-	71-55-6	Yes
Ethane, 1,1,2-trichloro-	79-00-5	Yes
Ethylene, trichloro-	79-01-6	Yes
1,2,4-Trimethylbenzene	95-63-6	Yes
1,3,5-Trimethylbenzene	108-67-8	Yes
Vinyl Chloride	75-01-4	Yes
m-Xylene	108-38-3	Yes
o-Xylene	95-47-6	Yes
p-Xylene	106-42-3	Yes

Nitrogen	7727-37-9	Yes
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Canada

Labor

Canada - WHMIS - Classifications of Substances

• o-Xylene	95-47-6	B2, D2B
• p-Xylene	106-42-3	B2, D2A, D2B
• m-Xylene	108-38-3	B2, D2B
• Benzene, chloro-	108-90-7	B2, D1B, D2B
• Methane, trichlorofluoro-	75-69-4	Uncontrolled product according to WHMIS classification criteria
• Ethane, 1,1,2-trichloro-	79-00-5	D1A, D2B
• Ethane, 1,2-dichloro-	107-06-2	B2, D1A, D2A
• Benzene, m-dichloro-	541-73-1	B3, D2B
• Methane, chloro-	74-87-3	Not Listed
• Ethane, 1,2-dibromo-	106-93-4	D1A, D2A
• Vinyl Chloride	75-01-4	A, B1, D2A, D2B, F
• Ethane, chloro-	75-00-3	A, B1
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	A
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	D1A
• Benzene, 1,2,4-trichloro-	120-82-1	D1B, D2B
• Methane, bromo-	74-83-9	A, D1A, D2B, E
• Chloroform	67-66-3	D1B, D2A, D2B
• Carbon tetrachloride	56-23-5	D1A, D2A, D2B
• Benzene, o-dichloro-	95-50-1	B3, D1B
• Benzene, p-dichloro-	106-46-7	B3, D2A
• Methane, dichlorodifluoro-	75-71-8	A
• Ethylbenzene	100-41-4	B2, D2A, D2B
• Ethenylbenzene	100-42-5	B2, D2A
• Toluene	108-88-3	B2, D2A, D2B
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Uncontrolled product according to WHMIS classification criteria
• Benzene	71-43-2	B2, D2A, D2B
• Dichloromethane	75-09-2	D1B, D2A, D2B
• Ethylene, tetrachloro-	127-18-4	D1B, D2A, D2B
• Ethylene, trichloro-	79-01-6	D1B, D2A, D2B
• 1,2,4-Trimethylbenzene	95-63-6	B3
• Nitrogen	7727-37-9	A
• 1,3,5-Trimethylbenzene	108-67-8	B3
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	B2, D2B
• Ethane, 1,1-dichloro-	75-34-3	B2
• Ethylene, 1,1-dichloro-	75-35-4	B2, D1B, D2B, F
• Propane, 1,2-dichloro-	78-87-5	B2
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	D1B, D2B
• Ethane, 1,1,1-trichloro-	71-55-6	D1B, D2B

Canada - WHMIS - Ingredient Disclosure List

• o-Xylene	95-47-6	1 %
• p-Xylene	106-42-3	0.1 %
• m-Xylene	108-38-3	1 %
• Benzene, chloro-	108-90-7	1 %
• Methane, trichlorofluoro-	75-69-4	1 %
• Ethane, 1,1,2-trichloro-	79-00-5	1 %

• Ethane, 1,2-dichloro-	107-06-2	1 %
• Benzene, m-dichloro-	541-73-1	1 %
• Methane, chloro-	74-87-3	1 %
• Ethane, 1,2-dibromo-	106-93-4	0.1 %
• Vinyl Chloride	75-01-4	0.1 %
• Ethane, chloro-	75-00-3	1 %
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	1 %
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	1 %
• Benzene, 1,2,4-trichloro-	120-82-1	1 %
• Methane, bromo-	74-83-9	Not Listed
• Chloroform	67-66-3	0.1 %
• Carbon tetrachloride	56-23-5	0.1 %
• Benzene, o-dichloro-	95-50-1	1 %
• Benzene, p-dichloro-	106-46-7	1 %
• Methane, dichlorodifluoro-	75-71-8	1 %
• Ethylbenzene	100-41-4	0.1 %
• Ethenylbenzene	100-42-5	0.1 %
• Toluene	108-88-3	1 %
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	1 %
• Benzene	71-43-2	0.1 %
• Dichloromethane	75-09-2	0.1 %
• Ethylene, tetrachloro-	127-18-4	1 %
• Ethylene, trichloro-	79-01-6	1 %
• 1,2,4-Trimethylbenzene	95-63-6	0.1 %
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	0.1 %
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	1 %
• Ethylene, 1,1-dichloro-	75-35-4	1 %
• Propane, 1,2-dichloro-	78-87-5	1 %
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	0.1 %
• Ethane, 1,1,1-trichloro-	71-55-6	0.1 %

Environment

Canada - CEPA - Priority Substances List

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	Priority Substance List 1 (substance not considered toxic)
• Methane, trichlorofluoro-	75-69-4	Not Listed
• Ethane, 1,1,2-trichloro-	79-00-5	Not Listed
• Ethane, 1,2-dichloro-	107-06-2	Priority Substance List 1 (substance considered toxic)
• Benzene, m-dichloro-	541-73-1	Not Listed
• Methane, chloro-	74-87-3	Not Listed
• Ethane, 1,2-dibromo-	106-93-4	Not Listed
• Vinyl Chloride	75-01-4	Not Listed
• Ethane, chloro-	75-00-3	Not Listed
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	Priority Substance List 1 (substance not considered toxic)
• Benzene, 1,2,4-trichloro-	120-82-1	Not Listed

• Methane, bromo-	74-83-9	Not Listed
• Chloroform	67-66-3	Priority Substance List 2 (substance not considered toxic)
• Carbon tetrachloride	56-23-5	Not Listed
• Benzene, o-dichloro-	95-50-1	Priority Substance List 1 (substance not considered toxic)
• Benzene, p-dichloro-	106-46-7	Priority Substance List 1 (substance not considered toxic)
• Methane, dichlorodifluoro-	75-71-8	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Ethenylbenzene	100-42-5	Priority Substance List 1 (substance not considered toxic)
• Toluene	108-88-3	Priority Substance List 1 (substance not considered toxic)
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	Priority Substance List 1 (substance considered toxic)
• Dichloromethane	75-09-2	Priority Substance List 1 (substance considered toxic)
• Ethylene, tetrachloro-	127-18-4	Priority Substance List 1 (substance considered toxic)
• Ethylene, trichloro-	79-01-6	Priority Substance List 1 (substance considered toxic)
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	Not Listed
• Ethylene, 1,1-dichloro-	75-35-4	Not Listed
• Propane, 1,2-dichloro-	78-87-5	Not Listed
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	Priority Substance List 2 (substance considered toxic, substance added to Virtual Elimination List)
• Ethane, 1,1,1-trichloro-	71-55-6	Priority Substance List 1 (substance considered toxic, added to CEPA's Schedule 1, List of Toxic Substances)

China

Environment

China - Ozone Depleting Substances - First Schedule

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	Not Listed
• Methane, trichlorofluoro-	75-69-4	Maximum import amount will be specified in approval 2903.4100 CFC-11
• Ethane, 1,1,2-trichloro-	79-00-5	Not Listed
• Ethane, 1,2-dichloro-	107-06-2	Not Listed
• Benzene, m-dichloro-	541-73-1	Not Listed
• Methane, chloro-	74-87-3	Not Listed
• Ethane, 1,2-dibromo-	106-93-4	Not Listed
• Vinyl Chloride	75-01-4	Not Listed
• Ethane, chloro-	75-00-3	Not Listed
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Maximum import amount will be specified in approval 2903.4400.10 CFC-114
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	Not Listed
• Benzene, 1,2,4-trichloro-	120-82-1	Not Listed
• Methane, bromo-	74-83-9	Not Listed
• Chloroform	67-66-3	Not Listed
• Carbon tetrachloride	56-23-5	Forbidden from import 2903.1400
• Benzene, o-dichloro-	95-50-1	Not Listed
• Benzene, p-dichloro-	106-46-7	Not Listed
• Methane, dichlorodifluoro-	75-71-8	Maximum import amount will be specified in approval 2903.4200 CFC-12

• Ethylbenzene	100-41-4	Not Listed
• Ethenylbenzene	100-42-5	Not Listed
• Toluene	108-88-3	Not Listed
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Maximum import amount will be specified in approval 2903.4300 CFC-113
• Benzene	71-43-2	Not Listed
• Dichloromethane	75-09-2	Not Listed
• Ethylene, tetrachloro-	127-18-4	Not Listed
• Ethylene, trichloro-	79-01-6	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	Not Listed
• Ethylene, 1,1-dichloro-	75-35-4	Not Listed
• Propane, 1,2-dichloro-	78-87-5	Not Listed
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	Not Listed
• Ethane, 1,1,1-trichloro-	71-55-6	Not Listed

China - Ozone Depleting Substances - Second Schedule

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	Not Listed
• Methane, trichlorofluoro-	75-69-4	Not Listed
• Ethane, 1,1,2-trichloro-	79-00-5	Not Listed
• Ethane, 1,2-dichloro-	107-06-2	Not Listed
• Benzene, m-dichloro-	541-73-1	Not Listed
• Methane, chloro-	74-87-3	Not Listed
• Ethane, 1,2-dibromo-	106-93-4	Not Listed
• Vinyl Chloride	75-01-4	Not Listed
• Ethane, chloro-	75-00-3	Not Listed
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	Not Listed
• Benzene, 1,2,4-trichloro-	120-82-1	Not Listed
• Methane, bromo-	74-83-9	Not Listed
• Chloroform	67-66-3	Not Listed
• Carbon tetrachloride	56-23-5	Export license management 2903.1400 CTC
• Benzene, o-dichloro-	95-50-1	Not Listed
• Benzene, p-dichloro-	106-46-7	Not Listed
• Methane, dichlorodifluoro-	75-71-8	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Ethenylbenzene	100-42-5	Not Listed
• Toluene	108-88-3	Not Listed
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	Not Listed
• Dichloromethane	75-09-2	Not Listed
• Ethylene, tetrachloro-	127-18-4	Not Listed
• Ethylene, trichloro-	79-01-6	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed

• Ethane, 1,1-dichloro-	75-34-3	Not Listed
• Ethylene, 1,1-dichloro-	75-35-4	Not Listed
• Propane, 1,2-dichloro-	78-87-5	Not Listed
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	Not Listed
• Ethane, 1,1,1-trichloro-	71-55-6	Import/Export Quota license management 2903.1910 TCA

China - Ozone Depleting Substances - Third Schedule

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	Not Listed
• Methane, trichlorofluoro-	75-69-4	Not Listed
• Ethane, 1,1,2-trichloro-	79-00-5	Not Listed
• Ethane, 1,2-dichloro-	107-06-2	Not Listed
• Benzene, m-dichloro-	541-73-1	Not Listed
• Methane, chloro-	74-87-3	Not Listed
• Ethane, 1,2-dibromo-	106-93-4	Not Listed
• Vinyl Chloride	75-01-4	Not Listed
• Ethane, chloro-	75-00-3	Not Listed
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	Not Listed
• Benzene, 1,2,4-trichloro-	120-82-1	Not Listed
• Methane, bromo-	74-83-9	License management 29033090.30
• Chloroform	67-66-3	Not Listed
• Carbon tetrachloride	56-23-5	Not Listed
• Benzene, o-dichloro-	95-50-1	Not Listed
• Benzene, p-dichloro-	106-46-7	Not Listed
• Methane, dichlorodifluoro-	75-71-8	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Ethenylbenzene	100-42-5	Not Listed
• Toluene	108-88-3	Not Listed
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	Not Listed
• Dichloromethane	75-09-2	Not Listed
• Ethylene, tetrachloro-	127-18-4	Not Listed
• Ethylene, trichloro-	79-01-6	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	Not Listed
• Ethylene, 1,1-dichloro-	75-35-4	Not Listed
• Propane, 1,2-dichloro-	78-87-5	Not Listed
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	Not Listed
• Ethane, 1,1,1-trichloro-	71-55-6	Not Listed

Other

China - Dangerous Goods List

• o-Xylene	95-47-6	Not Listed
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• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	UN1134 PG = III
• Methane, trichlorofluoro-	75-69-4	Not Listed
• Ethane, 1,1,2-trichloro-	79-00-5	Not Listed
• Ethane, 1,2-dichloro-	107-06-2	UN1184 PG = II
• Benzene, m-dichloro-	541-73-1	Not Listed
• Methane, chloro-	74-87-3	UN1063
• Ethane, 1,2-dibromo-	106-93-4	UN1605 PG = I
• Vinyl Chloride	75-01-4	UN1086
• Ethane, chloro-	75-00-3	UN1037
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	UN1958
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	UN1702 PG = II
• Benzene, 1,2,4-trichloro-	120-82-1	Not Listed
• Methane, bromo-	74-83-9	UN1062 (with not >2.0% Chloropicrine)
• Chloroform	67-66-3	UN1888 PG = III
• Carbon tetrachloride	56-23-5	UN1846 PG = II
• Benzene, o-dichloro-	95-50-1	UN1591 PG = III
• Benzene, p-dichloro-	106-46-7	Not Listed
• Methane, dichlorodifluoro-	75-71-8	UN1028
• Ethylbenzene	100-41-4	UN1175 PG = II
• Ethenylbenzene	100-42-5	UN2055 PG = III
• Toluene	108-88-3	UN1294 PG = II
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	UN1114 PG = II
• Dichloromethane	75-09-2	UN1593 PG = III
• Ethylene, tetrachloro-	127-18-4	UN1897 PG = III
• Ethylene, trichloro-	79-01-6	UN1710 PG = III
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	UN1066; UN1977
• 1,3,5-Trimethylbenzene	108-67-8	UN2325 PG = III
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	UN2362 PG = II
• Ethylene, 1,1-dichloro-	75-35-4	UN1303 PG = I
• Propane, 1,2-dichloro-	78-87-5	UN1279 PG = II
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	UN2279 PG = III
• Ethane, 1,1,1-trichloro-	71-55-6	UN2831 PG = III

Europe

Other

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification

• o-Xylene	95-47-6	R10 Xn; R20/21 Xi; R38
• p-Xylene	106-42-3	R10 Xn; R20/21 Xi; R38
• m-Xylene	108-38-3	R10 Xn; R20/21 Xi; R38
• Benzene, chloro-	108-90-7	R10 Xn; R20 N; R51-53
• Methane, trichlorofluoro-	75-69-4	Not Listed
• Ethane, 1,1,2-trichloro-	79-00-5	Xn; R20/21/22 Carc.Cat.3; R40 R66
• Ethane, 1,2-dichloro-	107-06-2	F; R11 Xn; R22 Xi; R36/37/38 Carc.Cat.2; R45
• Benzene, m-dichloro-	541-73-1	Xn; R22 N; R51-53
• Methane, chloro-	74-87-3	F+; R12 Carc.Cat.3; R40 Xn; R48/20
• Ethane, 1,2-dibromo-	106-93-4	T; R23/24/25 Xi; R36/37/38 Carc.Cat.2; R45 N; R51-53

• Vinyl Chloride	75-01-4	F+; R12 Carc.Cat.1; R45
• Ethane, chloro-	75-00-3	F+; R12 Carc.Cat.3; R40 R52-53
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	T+; R26/27 N; R51-53
• Benzene, 1,2,4-trichloro-	120-82-1	Xn; R22 Xi; R38 N; R50-53
• Methane, bromo-	74-83-9	T; R23/25 Xi; R36/37/38 Xn; R48/20 N; R50 N; R59 Muta.Cat.3; R68
• Chloroform	67-66-3	Xn; R22-48/20/22 Xi; R38 Carc.Cat.3; R40
• Carbon tetrachloride	56-23-5	T; R23/24/25-48/23 Carc.Cat.3; R40 R52-53 N; R59
• Benzene, o-dichloro-	95-50-1	Xn; R22 Xi; R36/37/38 N; R50-53
• Benzene, p-dichloro-	106-46-7	Xi; R36 Carc.Cat.3; R40 N; R50-53
• Methane, dichlorodifluoro-	75-71-8	Not Listed
• Ethylbenzene	100-41-4	F; R11 Xn; R20
• Ethenylbenzene	100-42-5	R10 Xn; R20 Xi; R36/38
• Toluene	108-88-3	F; R11 Xi; R38 Xn; R48/20-65 Repr.Cat.3; R63 R67
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	F; R11 Xi; R36/38 Carc.Cat.1; R45 Muta.Cat.2; R46 T; R48/23/24/25 Xn; R65
• Dichloromethane	75-09-2	Carc.Cat.3; R40
• Ethylene, tetrachloro-	127-18-4	Carc.Cat.3; R40 N; R51-53
• Ethylene, trichloro-	79-01-6	Xi; R36/38 Carc.Cat.2; R45 R52-53 R67 Muta.Cat.3; R68
• 1,2,4-Trimethylbenzene	95-63-6	R10 Xn; R20 Xi; R36/37/38 N; R51-53
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	R10 Xi; R37 N; R51-53
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	F; R11 Xn; R20 R52-53
• Ethane, 1,1-dichloro-	75-34-3	F; R11 Xn; R22 Xi; R36/37 R52-53
• Ethylene, 1,1-dichloro-	75-35-4	F+; R12 Xn; R20 Carc.Cat.3; R40
• Propane, 1,2-dichloro-	78-87-5	F; R11 Xn; R20/22
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	R10 Xn; R20-65 T; R24/25 Xi; R36/37/38 R43 N; R50-53
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	Not Listed
• Ethane, 1,1,1-trichloro-	71-55-6	Xn; R20 N; R59

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

• o-Xylene	95-47-6	12.5%≤C: Xn; R20/21
• p-Xylene	106-42-3	12.5%≤C: Xn; R20/21
• m-Xylene	108-38-3	12.5%≤C: Xn; R20/21
• Benzene, chloro-	108-90-7	5%≤C: Xn; R20
• Methane, trichlorofluoro-	75-69-4	Not Listed
• Ethane, 1,1,2-trichloro-	79-00-5	5%≤C: Xn; R20/21/22
• Ethane, 1,2-dichloro-	107-06-2	Not Listed
• Benzene, m-dichloro-	541-73-1	Not Listed
• Methane, chloro-	74-87-3	Not Listed
• Ethane, 1,2-dibromo-	106-93-4	1%≤C: T; R23/24/25 0.1%≤C<1%: Xn; R20/21/22
• Vinyl Chloride	75-01-4	Not Listed
• Ethane, chloro-	75-00-3	Not Listed
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	Not Listed
• Benzene, 1,2,4-trichloro-	120-82-1	Not Listed
• Methane, bromo-	74-83-9	Not Listed
• Chloroform	67-66-3	5%≤C: Xn; R22 5%≤C: Xn; R48/20/22
• Carbon tetrachloride	56-23-5	1%≤C: T; R23/24/25 0.2%≤C<1%: Xn; R20/21/22 1%≤C: T; R48/23 0.2%≤C<1%: Xn; R48/20
• Benzene, o-dichloro-	95-50-1	5%≤C: Xn; R22
• Benzene, p-dichloro-	106-46-7	Not Listed

• Methane, dichlorodifluoro-	75-71-8	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Ethenylbenzene	100-42-5	12.5%≤C: Xn; R20 12.5%≤C: Xi; R36/38
• Toluene	108-88-3	Not Listed
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	Not Listed
• Dichloromethane	75-09-2	Not Listed
• Ethylene, tetrachloro-	127-18-4	Not Listed
• Ethylene, trichloro-	79-01-6	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	25%≤C: Xi; R37
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	12.5%≤C: Xn; R20
• Ethane, 1,1-dichloro-	75-34-3	12.5%≤C: Xn; R22
• Ethylene, 1,1-dichloro-	75-35-4	12.5%≤C: Xn; R20
• Propane, 1,2-dichloro-	78-87-5	Not Listed
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	Not Listed
• Ethane, 1,1,1-trichloro-	71-55-6	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

• o-Xylene	95-47-6	Xn R:10-20/21-38 S:(2)-25
• p-Xylene	106-42-3	Xn R:10-20/21-38 S:(2)-25
• m-Xylene	108-38-3	Xn R:10-20/21-38 S:(2)-25
• Benzene, chloro-	108-90-7	Xn N R:10-20-51/53 S:(2)-24/25-61
• Methane, trichlorofluoro-	75-69-4	Not Listed
• Ethane, 1,1,2-trichloro-	79-00-5	Xn R:20/21/22-40-66 S:(2)-9-36/37-46
• Ethane, 1,2-dichloro-	107-06-2	F T R:45-11-22-36/37/38 S:53-45
• Benzene, m-dichloro-	541-73-1	Xn N R:22-51/53 S:(2)-61
• Methane, chloro-	74-87-3	F+ Xn R:12-40-48/20 S:(2)-9-16-33
• Ethane, 1,2-dibromo-	106-93-4	T N R:45-23/24/25-36/37/38-51/53 S:53-45-61
• Vinyl Chloride	75-01-4	F+ T R:45-12 S:53-45
• Ethane, chloro-	75-00-3	F+ Xn R:12-40-52/53 S:(2)-9-16-33-36/37-61
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	T+ N R:26/27-51/53 S:(1/2)-38-45-61
• Benzene, 1,2,4-trichloro-	120-82-1	Xn N R:22-38-50/53 S:(2)-23-37/39-60-61
• Methane, bromo-	74-83-9	T N R:23/25-36/37/38-48/20-50-59-68 S:(1/2)-15-27-36/39-38-45-59-61
• Chloroform	67-66-3	Xn R:22-38-40-48/20/22 S:(2)-36/37
• Carbon tetrachloride	56-23-5	T N R:23/24/25-40-48/23-59-52/53 S:(1/2)-23-36/37-45-59-61
• Benzene, o-dichloro-	95-50-1	Xn N R:22-36/37/38-50/53 S:(2)-23-60-61
• Benzene, p-dichloro-	106-46-7	Xn N R:36-40-50/53 S:(2)-36/37-46-60-61
• Methane, dichlorodifluoro-	75-71-8	Not Listed
• Ethylbenzene	100-41-4	F Xn R:11-20 S:(2)-16-24/25-29
• Ethenylbenzene	100-42-5	Xn R:10-20-36/38 S:(2)-23
• Toluene	108-88-3	F Xn R:11-38-48/20-63-65-67 S:(2)-36/37-46-62
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	F T R:45-46-11-36/38-48/23/24/25-65 S:53-45
• Dichloromethane	75-09-2	Xn R:40 S:(2)-23-24/25-36/37
• Ethylene, tetrachloro-	127-18-4	Xn N R:40-51/53 S:(2)-23-36/37-61
• Ethylene, trichloro-	79-01-6	T R:45-36/38-52/53-67 S:53-45-61
• 1,2,4-Trimethylbenzene	95-63-6	Xn N R:10-20-36/37/38-51/53 S:(2)-26-61
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Xi N R:10-37-51/53 S:(2)-61

• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	F Xn R:11-20-52/53 S:(2)-7-16-29-61
• Ethane, 1,1-dichloro-	75-34-3	F Xn R:11-22-36/37-52/53 S:(2)-16-23-61
• Ethylene, 1,1-dichloro-	75-35-4	F+ Xn R:12-20-40 S:(2)-7-16-29-36/37-46
• Propane, 1,2-dichloro-	78-87-5	F Xn R:11-20/22 S:(2)-16-24
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	T N R:10-20-24/25-36/37/38-43-65-50/53 S:(1/2)-36/37-45-60-61
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	Not Listed
• Ethane, 1,1,1-trichloro-	71-55-6	Xn N R:20-59 S:(2)-24/25-59-61

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

• o-Xylene	95-47-6	C
• p-Xylene	106-42-3	C
• m-Xylene	108-38-3	C
• Benzene, chloro-	108-90-7	Not Listed
• Methane, trichlorofluoro-	75-69-4	Not Listed
• Ethane, 1,1,2-trichloro-	79-00-5	Not Listed
• Ethane, 1,2-dichloro-	107-06-2	E
• Benzene, m-dichloro-	541-73-1	Not Listed
• Methane, chloro-	74-87-3	Not Listed
• Ethane, 1,2-dibromo-	106-93-4	E
• Vinyl Chloride	75-01-4	D
• Ethane, chloro-	75-00-3	Not Listed
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	Not Listed
• Benzene, 1,2,4-trichloro-	120-82-1	Not Listed
• Methane, bromo-	74-83-9	Not Listed
• Chloroform	67-66-3	Not Listed
• Carbon tetrachloride	56-23-5	Not Listed
• Benzene, o-dichloro-	95-50-1	Not Listed
• Benzene, p-dichloro-	106-46-7	Not Listed
• Methane, dichlorodifluoro-	75-71-8	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Ethenylbenzene	100-42-5	D
• Toluene	108-88-3	Not Listed
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	E
• Dichloromethane	75-09-2	Not Listed
• Ethylene, tetrachloro-	127-18-4	Not Listed
• Ethylene, trichloro-	79-01-6	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	C
• Ethane, 1,1-dichloro-	75-34-3	Not Listed
• Ethylene, 1,1-dichloro-	75-35-4	D
• Propane, 1,2-dichloro-	78-87-5	Not Listed
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	C, D
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	Not Listed
• Ethane, 1,1,1-trichloro-	71-55-6	F

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

• o-Xylene	95-47-6	S:(2)-25
• p-Xylene	106-42-3	S:(2)-25

• m-Xylene	108-38-3	S:(2)-25
• Benzene, chloro-	108-90-7	S:(2)-24/25-61
• Methane, trichlorofluoro-	75-69-4	Not Listed
• Ethane, 1,1,2-trichloro-	79-00-5	S:(2)-9-36/37-46
• Ethane, 1,2-dichloro-	107-06-2	S:53-45
• Benzene, m-dichloro-	541-73-1	S:(2)-61
• Methane, chloro-	74-87-3	S:(2)-9-16-33
• Ethane, 1,2-dibromo-	106-93-4	S:53-45-61
• Vinyl Chloride	75-01-4	S:53-45
• Ethane, chloro-	75-00-3	S:(2)-9-16-33-36/37-61
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	S:(1/2)-38-45-61
• Benzene, 1,2,4-trichloro-	120-82-1	S:(2)-23-37/39-60-61
• Methane, bromo-	74-83-9	S:(1/2)-15-27-36/39-38-45-59-61
• Chloroform	67-66-3	S:(2)-36/37
• Carbon tetrachloride	56-23-5	S:(1/2)-23-36/37-45-59-61
• Benzene, o-dichloro-	95-50-1	S:(2)-23-60-61
• Benzene, p-dichloro-	106-46-7	S:(2)-36/37-46-60-61
• Methane, dichlorodifluoro-	75-71-8	Not Listed
• Ethylbenzene	100-41-4	S:(2)-16-24/25-29
• Ethenylbenzene	100-42-5	S:(2)-23
• Toluene	108-88-3	S:(2)-36/37-46-62
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	S:53-45
• Dichloromethane	75-09-2	S:(2)-23-24/25-36/37
• Ethylene, tetrachloro-	127-18-4	S:(2)-23-36/37-61
• Ethylene, trichloro-	79-01-6	S:53-45-61
• 1,2,4-Trimethylbenzene	95-63-6	S:(2)-26-61
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	S:(2)-61
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	S:(2)-7-16-29-61
• Ethane, 1,1-dichloro-	75-34-3	S:(2)-16-23-61
• Ethylene, 1,1-dichloro-	75-35-4	S:(2)-7-16-29-36/37-46
• Propane, 1,2-dichloro-	78-87-5	S:(2)-16-24
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	S:(1/2)-36/37-45-60-61
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	Not Listed
• Ethane, 1,1,1-trichloro-	71-55-6	S:(2)-24/25-59-61

Germany

Environment

Germany - TA Luft - Types and Classes

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	Not Listed
• Methane, trichlorofluoro-	75-69-4	Not Listed
• Ethane, 1,1,2-trichloro-	79-00-5	organic substance: 5.2.5, Class I
• Ethane, 1,2-dichloro-	107-06-2	carcinogenic substance: 5.2.7.1.1, Class III
• Benzene, m-dichloro-	541-73-1	Not Listed
• Methane, chloro-	74-87-3	organic substance: 5.2.5, Class I
• Ethane, 1,2-dibromo-	106-93-4	Not Listed
• Vinyl Chloride	75-01-4	carcinogenic substance: 5.2.7.1.1, Class III

• Ethane, chloro-	75-00-3	organic substance: 5.2.5, Class I
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	organic substance: 5.2.5, Class I
• Benzene, 1,2,4-trichloro-	120-82-1	Not Listed
• Methane, bromo-	74-83-9	organic substance: 5.2.5, Class I
• Chloroform	67-66-3	organic substance: 5.2.5, Class I
• Carbon tetrachloride	56-23-5	organic substance: 5.2.5, Class I
• Benzene, o-dichloro-	95-50-1	Not Listed
• Benzene, p-dichloro-	106-46-7	Not Listed
• Methane, dichlorodifluoro-	75-71-8	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Ethenylbenzene	100-42-5	Not Listed
• Toluene	108-88-3	Not Listed
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	carcinogenic substance: 5.2.7.1.1, Class III
• Dichloromethane	75-09-2	organic substance: 5.2.5, Class I
• Ethylene, tetrachloro-	127-18-4	organic substance: 5.2.5, Class I
• Ethylene, trichloro-	79-01-6	organic substance: 5.2.5, Class I; carcinogenic substance: 5.2.7.1.1, Class III
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	organic substance: 5.2.5, Class II
• Ethylene, 1,1-dichloro-	75-35-4	organic substance: 5.2.5, Class I
• Propane, 1,2-dichloro-	78-87-5	organic substance: 5.2.5, Class I
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	organic substance: 5.2.5, Class I
• Ethane, 1,1,1-trichloro-	71-55-6	organic substance: 5.2.5, Class II

Germany - Water Classification (VwVWS) - Annex 1

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	Not Listed
• Methane, trichlorofluoro-	75-69-4	Not Listed
• Ethane, 1,1,2-trichloro-	79-00-5	Not Listed
• Ethane, 1,2-dichloro-	107-06-2	Not Listed
• Benzene, m-dichloro-	541-73-1	Not Listed
• Methane, chloro-	74-87-3	Not Listed
• Ethane, 1,2-dibromo-	106-93-4	Not Listed
• Vinyl Chloride	75-01-4	Not Listed
• Ethane, chloro-	75-00-3	Not Listed
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	Not Listed
• Benzene, 1,2,4-trichloro-	120-82-1	Not Listed
• Methane, bromo-	74-83-9	Not Listed
• Chloroform	67-66-3	Not Listed
• Carbon tetrachloride	56-23-5	Not Listed
• Benzene, o-dichloro-	95-50-1	Not Listed
• Benzene, p-dichloro-	106-46-7	Not Listed
• Methane, dichlorodifluoro-	75-71-8	Not Listed
• Ethylbenzene	100-41-4	Not Listed

• Ethenylbenzene	100-42-5	Not Listed
• Toluene	108-88-3	Not Listed
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	Not Listed
• Dichloromethane	75-09-2	Not Listed
• Ethylene, tetrachloro-	127-18-4	Not Listed
• Ethylene, trichloro-	79-01-6	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	ID Number 1351, not considered hazardous to water
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	Not Listed
• Ethylene, 1,1-dichloro-	75-35-4	Not Listed
• Propane, 1,2-dichloro-	78-87-5	Not Listed
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	Not Listed
• Ethane, 1,1,1-trichloro-	71-55-6	Not Listed

Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

• o-Xylene	95-47-6	ID Number 206, hazard class 2 - hazard to waters
• p-Xylene	106-42-3	ID Number 206, hazard class 2 - hazard to waters
• m-Xylene	108-38-3	ID Number 206, hazard class 2 - hazard to waters
• Benzene, chloro-	108-90-7	ID Number 53, hazard class 2 - hazard to waters
• Methane, trichlorofluoro-	75-69-4	ID Number 448, hazard class 2 - hazard to waters
• Ethane, 1,1,2-trichloro-	79-00-5	ID Number 796, hazard class 3 - severe hazard to waters
• Ethane, 1,2-dichloro-	107-06-2	ID Number 102, hazard class 3 - severe hazard to waters
• Benzene, m-dichloro-	541-73-1	ID Number 641, hazard class 2 - hazard to waters
• Methane, chloro-	74-87-3	ID Number 265, hazard class 2 - hazard to waters
• Ethane, 1,2-dibromo-	106-93-4	ID Number 241, hazard class 3 - severe hazard to waters
• Vinyl Chloride	75-01-4	ID Number 462, hazard class 2 - hazard to waters
• Ethane, chloro-	75-00-3	ID Number 793, hazard class 2 - hazard to waters
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	ID Number 1114, hazard class 1 - low hazard to waters
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	ID Number 797, hazard class 3 - severe hazard to waters
• Benzene, 1,2,4-trichloro-	120-82-1	ID Number 6688, hazard class 3 - severe hazard to waters
• Methane, bromo-	74-83-9	ID Number 264, hazard class 3 - severe hazard to waters
• Chloroform	67-66-3	ID Number 54, hazard class 3 - severe hazard to waters
• Carbon tetrachloride	56-23-5	ID Number 189, hazard class 3 - severe hazard to waters
• Benzene, o-dichloro-	95-50-1	ID Number 74, hazard class 2 - hazard to waters
• Benzene, p-dichloro-	106-46-7	ID Number 642, hazard class 2 - hazard to waters
• Methane, dichlorodifluoro-	75-71-8	Not Listed
• Ethylbenzene	100-41-4	ID Number 99, hazard class 1 - low hazard to waters
• Ethenylbenzene	100-42-5	ID Number 187, hazard class 2 - hazard to waters
• Toluene	108-88-3	ID Number 194, hazard class 2 - hazard to waters
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	ID Number 458, hazard class 2 - hazard to waters
• Benzene	71-43-2	ID Number 29, hazard class 3 - severe hazard to waters
• Dichloromethane	75-09-2	ID Number 149, hazard class 2 - hazard to waters
• Ethylene, tetrachloro-	127-18-4	ID Number 287, hazard class 3 - severe hazard to waters
• Ethylene, trichloro-	79-01-6	ID Number 199, hazard class 3 - severe hazard to waters
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	ID Number 795, hazard class 2 - hazard to waters
• Ethane, 1,1-dichloro-	75-34-3	ID Number 895, hazard class 3 - severe hazard to waters

• Ethylene, 1,1-dichloro-	75-35-4	ID Number 794, hazard class 3 - severe hazard to waters
• Propane, 1,2-dichloro-	78-87-5	ID Number 446, hazard class 3 - severe hazard to waters
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	ID Number 245, hazard class 3 - severe hazard to waters
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	ID Number 123, hazard class 3 - severe hazard to waters
• Ethane, 1,1,1-trichloro-	71-55-6	ID Number 198, hazard class 3 - severe hazard to waters

Germany - Water Classification (VwVwS) - Annex 3

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	Not Listed
• Methane, trichlorofluoro-	75-69-4	Not Listed
• Ethane, 1,1,2-trichloro-	79-00-5	Not Listed
• Ethane, 1,2-dichloro-	107-06-2	Not Listed
• Benzene, m-dichloro-	541-73-1	Not Listed
• Methane, chloro-	74-87-3	Not Listed
• Ethane, 1,2-dibromo-	106-93-4	Not Listed
• Vinyl Chloride	75-01-4	Not Listed
• Ethane, chloro-	75-00-3	Not Listed
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	Not Listed
• Benzene, 1,2,4-trichloro-	120-82-1	Not Listed
• Methane, bromo-	74-83-9	Not Listed
• Chloroform	67-66-3	Not Listed
• Carbon tetrachloride	56-23-5	Not Listed
• Benzene, o-dichloro-	95-50-1	Not Listed
• Benzene, p-dichloro-	106-46-7	Not Listed
• Methane, dichlorodifluoro-	75-71-8	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Ethenylbenzene	100-42-5	Not Listed
• Toluene	108-88-3	Not Listed
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	Not Listed
• Dichloromethane	75-09-2	Not Listed
• Ethylene, tetrachloro-	127-18-4	Not Listed
• Ethylene, trichloro-	79-01-6	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	ID Number 3925, hazard class 2 - hazard to waters
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	Not Listed
• Ethylene, 1,1-dichloro-	75-35-4	Not Listed
• Propane, 1,2-dichloro-	78-87-5	Not Listed
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	Not Listed
• Ethane, 1,1,1-trichloro-	71-55-6	Not Listed

Other**Germany - Specifically Regulated Chemicals in TRGS**

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed

• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	Not Listed
• Methane, trichlorofluoro-	75-69-4	Not Listed
• Ethane, 1,1,2-trichloro-	79-00-5	Not Listed
• Ethane, 1,2-dichloro-	107-06-2	Not Listed
• Benzene, m-dichloro-	541-73-1	Not Listed
• Methane, chloro-	74-87-3	Not Listed
• Ethane, 1,2-dibromo-	106-93-4	Not Listed
• Vinyl Chloride	75-01-4	Not Listed
• Ethane, chloro-	75-00-3	Not Listed
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	Not Listed
• Benzene, 1,2,4-trichloro-	120-82-1	Not Listed
• Methane, bromo-	74-83-9	Not Listed
• Chloroform	67-66-3	Not Listed
• Carbon tetrachloride	56-23-5	Not Listed
• Benzene, o-dichloro-	95-50-1	Not Listed
• Benzene, p-dichloro-	106-46-7	Not Listed
• Methane, dichlorodifluoro-	75-71-8	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Ethenylbenzene	100-42-5	Not Listed
• Toluene	108-88-3	Not Listed
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	Not Listed
• Dichloromethane	75-09-2	TRGS 612
• Ethylene, tetrachloro-	127-18-4	Not Listed
• Ethylene, trichloro-	79-01-6	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	Not Listed
• Ethylene, 1,1-dichloro-	75-35-4	Not Listed
• Propane, 1,2-dichloro-	78-87-5	Not Listed
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	Not Listed
• Ethane, 1,1,1-trichloro-	71-55-6	Not Listed

United Kingdom

Environment

United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Releases to Air

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	Not Listed
• Methane, trichlorofluoro-	75-69-4	Not Listed
• Ethane, 1,1,2-trichloro-	79-00-5	Not Listed
• Ethane, 1,2-dichloro-	107-06-2	1000 kg
• Benzene, m-dichloro-	541-73-1	Not Listed
• Methane, chloro-	74-87-3	1000 kg
• Ethane, 1,2-dibromo-	106-93-4	Not Listed
• Vinyl Chloride	75-01-4	1000 kg

• Ethane, chloro-	75-00-3	Not Listed
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	Not Listed
• Benzene, 1,2,4-trichloro-	120-82-1	Not Listed
• Methane, bromo-	74-83-9	100 kg
• Chloroform	67-66-3	100 kg
• Carbon tetrachloride	56-23-5	10 kg
• Benzene, o-dichloro-	95-50-1	Not Listed
• Benzene, p-dichloro-	106-46-7	1 kg
• Methane, dichlorodifluoro-	75-71-8	Not Listed
• Ethylbenzene	100-41-4	100 kg
• Ethenylbenzene	100-42-5	100 kg
• Toluene	108-88-3	100 kg
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	1000 kg
• Dichloromethane	75-09-2	1000 kg
• Ethylene, tetrachloro-	127-18-4	100 kg
• Ethylene, trichloro-	79-01-6	1000 kg
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	Not Listed
• Ethylene, 1,1-dichloro-	75-35-4	Not Listed
• Propane, 1,2-dichloro-	78-87-5	Not Listed
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	Not Listed
• Ethane, 1,1,1-trichloro-	71-55-6	10 kg

Other**United Kingdom - Workplace Exposure Limits (WELs) - Substances in Review**

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	Not Listed
• Methane, trichlorofluoro-	75-69-4	Not Listed
• Ethane, 1,1,2-trichloro-	79-00-5	Not Listed
• Ethane, 1,2-dichloro-	107-06-2	Not Listed
• Benzene, m-dichloro-	541-73-1	Not Listed
• Methane, chloro-	74-87-3	Not Listed
• Ethane, 1,2-dibromo-	106-93-4	Not Listed
• Vinyl Chloride	75-01-4	Not Listed
• Ethane, chloro-	75-00-3	Not Listed
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	Not Listed
• Benzene, 1,2,4-trichloro-	120-82-1	Not Listed
• Methane, bromo-	74-83-9	Not Listed
• Chloroform	67-66-3	Not Listed
• Carbon tetrachloride	56-23-5	Not Listed
• Benzene, o-dichloro-	95-50-1	Not Listed
• Benzene, p-dichloro-	106-46-7	Not Listed
• Methane, dichlorodifluoro-	75-71-8	Not Listed

• Ethylbenzene	100-41-4	Not Listed
• Ethenylbenzene	100-42-5	HSC/E plans to review the limit values for this substance
• Toluene	108-88-3	Not Listed
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	Not Listed
• Dichloromethane	75-09-2	HSC/E plans to review the limit values for this substance
• Ethylene, tetrachloro-	127-18-4	Not Listed
• Ethylene, trichloro-	79-01-6	HSC/E plans to review the limit values for this substance
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	Not Listed
• Ethylene, 1,1-dichloro-	75-35-4	Not Listed
• Propane, 1,2-dichloro-	78-87-5	Not Listed
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	Not Listed
• Ethane, 1,1,1-trichloro-	71-55-6	Not Listed

United Kingdom - The Red List - Dangerous Substances in Water

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	Not Listed
• Methane, trichlorofluoro-	75-69-4	Not Listed
• Ethane, 1,1,2-trichloro-	79-00-5	Not Listed
• Ethane, 1,2-dichloro-	107-06-2	2000 g
• Benzene, m-dichloro-	541-73-1	Not Listed
• Methane, chloro-	74-87-3	Not Listed
• Ethane, 1,2-dibromo-	106-93-4	Not Listed
• Vinyl Chloride	75-01-4	Not Listed
• Ethane, chloro-	75-00-3	Not Listed
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	Not Listed
• Benzene, 1,2,4-trichloro-	120-82-1	Not Listed
• Methane, bromo-	74-83-9	Not Listed
• Chloroform	67-66-3	Not Listed
• Carbon tetrachloride	56-23-5	Not Listed
• Benzene, o-dichloro-	95-50-1	Not Listed
• Benzene, p-dichloro-	106-46-7	Not Listed
• Methane, dichlorodifluoro-	75-71-8	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Ethenylbenzene	100-42-5	Not Listed
• Toluene	108-88-3	Not Listed
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	Not Listed
• Dichloromethane	75-09-2	Not Listed
• Ethylene, tetrachloro-	127-18-4	Not Listed
• Ethylene, trichloro-	79-01-6	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed

• Ethane, 1,1-dichloro-	75-34-3	Not Listed
• Ethylene, 1,1-dichloro-	75-35-4	Not Listed
• Propane, 1,2-dichloro-	78-87-5	Not Listed
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	20 g
• Ethane, 1,1,1-trichloro-	71-55-6	Not Listed

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	Not Listed
• Methane, trichlorofluoro-	75-69-4	Not Listed
• Ethane, 1,1,2-trichloro-	79-00-5	Not Listed
• Ethane, 1,2-dichloro-	107-06-2	Not Listed
• Benzene, m-dichloro-	541-73-1	Not Listed
• Methane, chloro-	74-87-3	15000 lb TQ
• Ethane, 1,2-dibromo-	106-93-4	Not Listed
• Vinyl Chloride	75-01-4	Not Listed
• Ethane, chloro-	75-00-3	Not Listed
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	Not Listed
• Benzene, 1,2,4-trichloro-	120-82-1	Not Listed
• Methane, bromo-	74-83-9	2500 lb TQ
• Chloroform	67-66-3	Not Listed
• Carbon tetrachloride	56-23-5	Not Listed
• Benzene, o-dichloro-	95-50-1	Not Listed
• Benzene, p-dichloro-	106-46-7	Not Listed
• Methane, dichlorodifluoro-	75-71-8	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Ethenylbenzene	100-42-5	Not Listed
• Toluene	108-88-3	Not Listed
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	Not Listed
• Dichloromethane	75-09-2	Not Listed
• Ethylene, tetrachloro-	127-18-4	Not Listed
• Ethylene, trichloro-	79-01-6	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	Not Listed
• Ethylene, 1,1-dichloro-	75-35-4	Not Listed
• Propane, 1,2-dichloro-	78-87-5	Not Listed
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	Not Listed
• Ethane, 1,1,1-trichloro-	71-55-6	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	Not Listed
• Methane, trichlorofluoro-	75-69-4	Not Listed
• Ethane, 1,1,2-trichloro-	79-00-5	Not Listed
• Ethane, 1,2-dichloro-	107-06-2	Not Listed
• Benzene, m-dichloro-	541-73-1	Not Listed
• Methane, chloro-	74-87-3	Not Listed
• Ethane, 1,2-dibromo-	106-93-4	Not Listed
• Vinyl Chloride	75-01-4	0.5 ppm Action Level (Cancer suspect agent, See 29 CFR 1910.1017); 1 ppm TWA; 5 ppm STEL (15 min)
• Ethane, chloro-	75-00-3	Not Listed
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	Not Listed
• Benzene, 1,2,4-trichloro-	120-82-1	Not Listed
• Methane, bromo-	74-83-9	Not Listed
• Chloroform	67-66-3	Not Listed
• Carbon tetrachloride	56-23-5	Not Listed
• Benzene, o-dichloro-	95-50-1	Not Listed
• Benzene, p-dichloro-	106-46-7	Not Listed
• Methane, dichlorodifluoro-	75-71-8	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Ethenylbenzene	100-42-5	Not Listed
• Toluene	108-88-3	Not Listed
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	5 ppm STEL (Cancer hazard, Flammable, See 29 CFR 1910.1028, 15 min); 0.5 ppm Action Level; 1 ppm TWA
• Dichloromethane	75-09-2	125 ppm STEL (Cancer, cardiac effects, central nervous system effects, liver effects, and skin and eye irritation, See 29 CFR 1910.1052, 15 min); 12.5 ppm Action Level; 25 ppm TWA
• Ethylene, tetrachloro-	127-18-4	Not Listed
• Ethylene, trichloro-	79-01-6	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	Not Listed
• Ethylene, 1,1-dichloro-	75-35-4	Not Listed
• Propane, 1,2-dichloro-	78-87-5	Not Listed
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	Not Listed
• Ethane, 1,1,1-trichloro-	71-55-6	Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• o-Xylene	95-47-6	
• p-Xylene	106-42-3	
• m-Xylene	108-38-3	
• Benzene, chloro-	108-90-7	
• Methane, trichlorofluoro-	75-69-4	Not Listed
• Ethane, 1,1,2-trichloro-	79-00-5	

• Ethane, 1,2-dichloro-	107-06-2	
• Benzene, m-dichloro-	541-73-1	Not Listed
• Methane, chloro-	74-87-3	
• Ethane, 1,2-dibromo-	106-93-4	
• Vinyl Chloride	75-01-4	
• Ethane, chloro-	75-00-3	
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	
• Benzene, 1,2,4-trichloro-	120-82-1	
• Methane, bromo-	74-83-9	
• Chloroform	67-66-3	
• Carbon tetrachloride	56-23-5	
• Benzene, o-dichloro-	95-50-1	Not Listed
• Benzene, p-dichloro-	106-46-7	
• Methane, dichlorodifluoro-	75-71-8	Not Listed
• Ethylbenzene	100-41-4	
• Ethenylbenzene	100-42-5	
• Toluene	108-88-3	
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	(including Benzene from gasoline)
• Dichloromethane	75-09-2	
• Ethylene, tetrachloro-	127-18-4	
• Ethylene, trichloro-	79-01-6	
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	
• Ethylene, 1,1-dichloro-	75-35-4	
• Propane, 1,2-dichloro-	78-87-5	
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	
• Ethane, 1,1,1-trichloro-	71-55-6	

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• o-Xylene	95-47-6	1000 lb final RQ; 454 kg final RQ
• p-Xylene	106-42-3	100 lb final RQ; 45.4 kg final RQ
• m-Xylene	108-38-3	1000 lb final RQ; 454 kg final RQ
• Benzene, chloro-	108-90-7	100 lb final RQ; 45.4 kg final RQ
• Methane, trichlorofluoro-	75-69-4	5000 lb final RQ; 2270 kg final RQ
• Ethane, 1,1,2-trichloro-	79-00-5	100 lb final RQ; 45.4 kg final RQ
• Ethane, 1,2-dichloro-	107-06-2	100 lb final RQ; 45.4 kg final RQ
• Benzene, m-dichloro-	541-73-1	100 lb final RQ; 45.4 kg final RQ
• Methane, chloro-	74-87-3	100 lb final RQ; 45.4 kg final RQ
• Ethane, 1,2-dibromo-	106-93-4	1 lb final RQ; 0.454 kg final RQ
• Vinyl Chloride	75-01-4	1 lb final RQ; 0.454 kg final RQ
• Ethane, chloro-	75-00-3	100 lb final RQ; 45.4 kg final RQ
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	100 lb final RQ; 45.4 kg final RQ
• Benzene, 1,2,4-trichloro-	120-82-1	100 lb final RQ; 45.4 kg final RQ
• Methane, bromo-	74-83-9	1000 lb final RQ; 454 kg final RQ

• Chloroform	67-66-3	10 lb final RQ; 4.54 kg final RQ
• Carbon tetrachloride	56-23-5	10 lb final RQ; 4.54 kg final RQ
• Benzene, o-dichloro-	95-50-1	100 lb final RQ; 45.4 kg final RQ
• Benzene, p-dichloro-	106-46-7	100 lb final RQ; 45.4 kg final RQ
• Methane, dichlorodifluoro-	75-71-8	5000 lb final RQ; 2270 kg final RQ
• Ethylbenzene	100-41-4	1000 lb final RQ; 454 kg final RQ
• Ethenylbenzene	100-42-5	1000 lb final RQ; 454 kg final RQ
• Toluene	108-88-3	1000 lb final RQ; 454 kg final RQ
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	10 lb final RQ (received an adjusted RQ of 10 lbs based on potential carcinogenicity in an August 14, 1989 final rule); 4.54 kg final RQ (received an adjusted RQ of 10 lbs based on potential carcinogenicity in an August 14, 1989 final rule)
• Dichloromethane	75-09-2	1000 lb final RQ; 454 kg final RQ
• Ethylene, tetrachloro-	127-18-4	100 lb final RQ; 45.4 kg final RQ
• Ethylene, trichloro-	79-01-6	100 lb final RQ; 45.4 kg final RQ
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	1000 lb final RQ; 454 kg final RQ
• Ethane, 1,1-dichloro-	75-34-3	1000 lb final RQ; 454 kg final RQ
• Ethylene, 1,1-dichloro-	75-35-4	100 lb final RQ; 45.4 kg final RQ
• Propane, 1,2-dichloro-	78-87-5	1000 lb final RQ; 454 kg final RQ
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	1 lb final RQ; 0.454 kg final RQ
• Ethane, 1,1,1-trichloro-	71-55-6	1000 lb final RQ; 454 kg final RQ

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	Not Listed
• Methane, trichlorofluoro-	75-69-4	Not Listed
• Ethane, 1,1,2-trichloro-	79-00-5	Not Listed
• Ethane, 1,2-dichloro-	107-06-2	Not Listed
• Benzene, m-dichloro-	541-73-1	Not Listed
• Methane, chloro-	74-87-3	Not Listed
• Ethane, 1,2-dibromo-	106-93-4	Not Listed
• Vinyl Chloride	75-01-4	Not Listed
• Ethane, chloro-	75-00-3	Not Listed
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	Not Listed
• Benzene, 1,2,4-trichloro-	120-82-1	Not Listed
• Methane, bromo-	74-83-9	1000 lb EPCRA RQ
• Chloroform	67-66-3	10 lb EPCRA RQ
• Carbon tetrachloride	56-23-5	Not Listed
• Benzene, o-dichloro-	95-50-1	Not Listed
• Benzene, p-dichloro-	106-46-7	Not Listed
• Methane, dichlorodifluoro-	75-71-8	Not Listed

• Ethylbenzene	100-41-4	Not Listed
• Ethenylbenzene	100-42-5	Not Listed
• Toluene	108-88-3	Not Listed
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	Not Listed
• Dichloromethane	75-09-2	Not Listed
• Ethylene, tetrachloro-	127-18-4	Not Listed
• Ethylene, trichloro-	79-01-6	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	Not Listed
• Ethylene, 1,1-dichloro-	75-35-4	Not Listed
• Propane, 1,2-dichloro-	78-87-5	Not Listed
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	Not Listed
• Ethane, 1,1,1-trichloro-	71-55-6	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	Not Listed
• Methane, trichlorofluoro-	75-69-4	Not Listed
• Ethane, 1,1,2-trichloro-	79-00-5	Not Listed
• Ethane, 1,2-dichloro-	107-06-2	Not Listed
• Benzene, m-dichloro-	541-73-1	Not Listed
• Methane, chloro-	74-87-3	Not Listed
• Ethane, 1,2-dibromo-	106-93-4	Not Listed
• Vinyl Chloride	75-01-4	Not Listed
• Ethane, chloro-	75-00-3	Not Listed
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	Not Listed
• Benzene, 1,2,4-trichloro-	120-82-1	Not Listed
• Methane, bromo-	74-83-9	1000 lb TPQ
• Chloroform	67-66-3	10000 lb TPQ
• Carbon tetrachloride	56-23-5	Not Listed
• Benzene, o-dichloro-	95-50-1	Not Listed
• Benzene, p-dichloro-	106-46-7	Not Listed
• Methane, dichlorodifluoro-	75-71-8	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Ethenylbenzene	100-42-5	Not Listed
• Toluene	108-88-3	Not Listed
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	Not Listed
• Dichloromethane	75-09-2	Not Listed
• Ethylene, tetrachloro-	127-18-4	Not Listed
• Ethylene, trichloro-	79-01-6	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed

• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	Not Listed
• Ethylene, 1,1-dichloro-	75-35-4	Not Listed
• Propane, 1,2-dichloro-	78-87-5	Not Listed
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	Not Listed
• Ethane, 1,1,1-trichloro-	71-55-6	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• o-Xylene	95-47-6	1.0 % de minimis concentration
• p-Xylene	106-42-3	1.0 % de minimis concentration
• m-Xylene	108-38-3	1.0 % de minimis concentration
• Benzene, chloro-	108-90-7	1.0 % de minimis concentration
• Methane, trichlorofluoro-	75-69-4	1.0 % de minimis concentration
• Ethane, 1,1,2-trichloro-	79-00-5	1.0 % de minimis concentration
• Ethane, 1,2-dichloro-	107-06-2	0.1 % de minimis concentration
• Benzene, m-dichloro-	541-73-1	1.0 % de minimis concentration
• Methane, chloro-	74-87-3	1.0 % de minimis concentration
• Ethane, 1,2-dibromo-	106-93-4	0.1 % de minimis concentration
• Vinyl Chloride	75-01-4	0.1 % de minimis concentration
• Ethane, chloro-	75-00-3	1.0 % de minimis concentration
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	1.0 % de minimis concentration (listed under Dichlorotetrafluoroethane)
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	1.0 % de minimis concentration
• Benzene, 1,2,4-trichloro-	120-82-1	1.0 % de minimis concentration
• Methane, bromo-	74-83-9	1.0 % de minimis concentration
• Chloroform	67-66-3	0.1 % de minimis concentration
• Carbon tetrachloride	56-23-5	0.1 % de minimis concentration
• Benzene, o-dichloro-	95-50-1	1.0 % de minimis concentration
• Benzene, p-dichloro-	106-46-7	0.1 % de minimis concentration
• Methane, dichlorodifluoro-	75-71-8	1.0 % de minimis concentration
• Ethylbenzene	100-41-4	0.1 % de minimis concentration
• Ethenylbenzene	100-42-5	0.1 % de minimis concentration
• Toluene	108-88-3	1.0 % de minimis concentration
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	1.0 % de minimis concentration
• Benzene	71-43-2	0.1 % de minimis concentration
• Dichloromethane	75-09-2	0.1 % de minimis concentration
• Ethylene, tetrachloro-	127-18-4	0.1 % de minimis concentration
• Ethylene, trichloro-	79-01-6	0.1 % de minimis concentration
• 1,2,4-Trimethylbenzene	95-63-6	1.0 % de minimis concentration
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	1.0 % de minimis concentration
• Ethylene, 1,1-dichloro-	75-35-4	1.0 % de minimis concentration
• Propane, 1,2-dichloro-	78-87-5	1.0 % de minimis concentration
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	0.1 % de minimis concentration
• 1,3-Butadiene, hexachloro-	87-68-3	1.0 % de minimis concentration
• Ethane, 1,1,1-trichloro-	71-55-6	1.0 % de minimis concentration

U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed

• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	Included in waste streams: F002, F024, F025, F039, K015, K105, K149
• Methane, trichlorofluoro-	75-69-4	Included in waste streams: F002, F039
• Ethane, 1,1,2-trichloro-	79-00-5	Included in waste streams: F002, F024, F025, F039, K019, K020, K095, K096
• Ethane, 1,2-dichloro-	107-06-2	Included in waste streams: F024, F025, F039, K018, K019, K020, K029, K030, K096
• Benzene, m-dichloro-	541-73-1	Included in waste stream: F039
• Methane, chloro-	74-87-3	Included in waste streams: F024, F025, F039, K009, K010, K149, K150, K157
• Ethane, 1,2-dibromo-	106-93-4	Included in waste streams: F039, K117, K118, K136
• Vinyl Chloride	75-01-4	Included in waste streams: F024, F025, F039, K019, K020, K028, K029
• Ethane, chloro-	75-00-3	Included in waste stream: F039
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	Included in waste streams: F024, F025, F039, K019, K020, K030, K073, K095, K150
• Benzene, 1,2,4-trichloro-	120-82-1	Included in waste streams: F024, F025, F039, K150
• Methane, bromo-	74-83-9	Included in waste streams: F039, K131, K132
• Chloroform	67-66-3	Included in waste streams: F024, F025, F039, K009, K010, K019, K020, K021, K029, K073, K116, K149, K150, K151, K158
• Carbon tetrachloride	56-23-5	Included in waste streams: F001, F024, F025, F039, K016, K019, K020, K021, K073, K116, K150, K151, K157
• Benzene, o-dichloro-	95-50-1	Included in waste streams: F002, F039, K042
• Benzene, p-dichloro-	106-46-7	Included in waste streams: F039, K149, K150
• Methane, dichlorodifluoro-	75-71-8	Included in waste stream: F039
• Ethylbenzene	100-41-4	Included in waste stream: F039
• Ethenylbenzene	100-42-5	Not Listed
• Toluene	108-88-3	Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Included in waste streams: F002, F039
• Benzene	71-43-2	Included in waste streams: F005, F024, F025, F037, F038, F039, K085, K104, K105, K141, K142, K143, K144, K145, K147, K151, K159, K169, K171, K172
• Dichloromethane	75-09-2	Included in waste streams: F001, F002, F024, F025, F039, K009, K010, K156, K157, K158
• Ethylene, tetrachloro-	127-18-4	Included in waste streams: F001, F002, F024, F025, F039, K016, K019, K020, K073, K116, K150, K151
• Ethylene, trichloro-	79-01-6	Included in waste streams: F001, F002, F024, F025, F039, K018, K019, K020
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	Included in waste streams: F024, F025, F039
• Ethylene, 1,1-dichloro-	75-35-4	Included in waste streams: F024, F025, F039, K019, K020, K029
• Propane, 1,2-dichloro-	78-87-5	Included in waste stream: F039
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Included in waste stream: F039
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Included in waste stream: F039
• 1,3-Butadiene, hexachloro-	87-68-3	Included in waste streams: F024, F025, F039, K016, K018, K030
• Ethane, 1,1,1-trichloro-	71-55-6	Included in waste streams: F001, F002, F024, F025, F039, K019, K020, K028, K029, K096

U.S. - RCRA (Resource Conservation & Recovery Act) - Constituents for Detection Monitoring

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	
• Methane, trichlorofluoro-	75-69-4	
• Ethane, 1,1,2-trichloro-	79-00-5	
• Ethane, 1,2-dichloro-	107-06-2	
• Benzene, m-dichloro-	541-73-1	Not Listed

• Methane, chloro-	74-87-3	
• Ethane, 1,2-dibromo-	106-93-4	
• Vinyl Chloride	75-01-4	
• Ethane, chloro-	75-00-3	
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	
• Benzene, 1,2,4-trichloro-	120-82-1	Not Listed
• Methane, bromo-	74-83-9	
• Chloroform	67-66-3	
• Carbon tetrachloride	56-23-5	
• Benzene, o-dichloro-	95-50-1	
• Benzene, p-dichloro-	106-46-7	
• Methane, dichlorodifluoro-	75-71-8	Not Listed
• Ethylbenzene	100-41-4	
• Ethenylbenzene	100-42-5	
• Toluene	108-88-3	
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	
• Dichloromethane	75-09-2	
• Ethylene, tetrachloro-	127-18-4	
• Ethylene, trichloro-	79-01-6	
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	
• Ethane, 1,1-dichloro-	75-34-3	
• Ethylene, 1,1-dichloro-	75-35-4	
• Propane, 1,2-dichloro-	78-87-5	
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	
• Propene, 1,3-dichloro-, (E)-	10061-02-6	
• 1,3-Butadiene, hexachloro-	87-68-3	Not Listed
• Ethane, 1,1,1-trichloro-	71-55-6	

U.S. - RCRA (Resource Conservation & Recovery Act) - D Series Wastes - Max Conc of Contaminants for the Tox Characteristic

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	100.0 mg/L regulatory level
• Methane, trichlorofluoro-	75-69-4	Not Listed
• Ethane, 1,1,2-trichloro-	79-00-5	Not Listed
• Ethane, 1,2-dichloro-	107-06-2	0.5 mg/L regulatory level
• Benzene, m-dichloro-	541-73-1	Not Listed
• Methane, chloro-	74-87-3	Not Listed
• Ethane, 1,2-dibromo-	106-93-4	Not Listed
• Vinyl Chloride	75-01-4	0.2 mg/L regulatory level
• Ethane, chloro-	75-00-3	Not Listed
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	Not Listed
• Benzene, 1,2,4-trichloro-	120-82-1	Not Listed
• Methane, bromo-	74-83-9	Not Listed
• Chloroform	67-66-3	6.0 mg/L regulatory level
• Carbon tetrachloride	56-23-5	0.5 mg/L regulatory level
• Benzene, o-dichloro-	95-50-1	Not Listed
• Benzene, p-dichloro-	106-46-7	7.5 mg/L regulatory level

• Methane, dichlorodifluoro-	75-71-8	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Ethenylbenzene	100-42-5	Not Listed
• Toluene	108-88-3	Not Listed
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	0.5 mg/L regulatory level
• Dichloromethane	75-09-2	Not Listed
• Ethylene, tetrachloro-	127-18-4	0.7 mg/L regulatory level
• Ethylene, trichloro-	79-01-6	0.5 mg/L regulatory level
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	Not Listed
• Ethylene, 1,1-dichloro-	75-35-4	0.7 mg/L regulatory level
• Propane, 1,2-dichloro-	78-87-5	Not Listed
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	0.5 mg/L regulatory level
• Ethane, 1,1,1-trichloro-	71-55-6	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	waste number U037
• Methane, trichlorofluoro-	75-69-4	waste number U121
• Ethane, 1,1,2-trichloro-	79-00-5	waste number U227
• Ethane, 1,2-dichloro-	107-06-2	waste number U077
• Benzene, m-dichloro-	541-73-1	waste number U071
• Methane, chloro-	74-87-3	waste number U045
• Ethane, 1,2-dibromo-	106-93-4	waste number U067
• Vinyl Chloride	75-01-4	waste number U043
• Ethane, chloro-	75-00-3	Not Listed
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	waste number U209
• Benzene, 1,2,4-trichloro-	120-82-1	hazardous constituent - no waste number
• Methane, bromo-	74-83-9	waste number U029
• Chloroform	67-66-3	waste number U044
• Carbon tetrachloride	56-23-5	waste number U211
• Benzene, o-dichloro-	95-50-1	waste number U070
• Benzene, p-dichloro-	106-46-7	waste number U072
• Methane, dichlorodifluoro-	75-71-8	waste number U075
• Ethylbenzene	100-41-4	Not Listed
• Ethenylbenzene	100-42-5	Not Listed
• Toluene	108-88-3	waste number U220
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	waste number U019
• Dichloromethane	75-09-2	waste number U080
• Ethylene, tetrachloro-	127-18-4	waste number U210
• Ethylene, trichloro-	79-01-6	waste number U228
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed

• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	waste number U076
• Ethylene, 1,1-dichloro-	75-35-4	waste number U078
• Propane, 1,2-dichloro-	78-87-5	waste number U083
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	waste number U128
• Ethane, 1,1,1-trichloro-	71-55-6	waste number U226

U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents

• o-Xylene	95-47-6	
• p-Xylene	106-42-3	
• m-Xylene	108-38-3	
• Benzene, chloro-	108-90-7	
• Methane, trichlorofluoro-	75-69-4	
• Ethane, 1,1,2-trichloro-	79-00-5	
• Ethane, 1,2-dichloro-	107-06-2	
• Benzene, m-dichloro-	541-73-1	
• Methane, chloro-	74-87-3	
• Ethane, 1,2-dibromo-	106-93-4	
• Vinyl Chloride	75-01-4	
• Ethane, chloro-	75-00-3	
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	
• Benzene, 1,2,4-trichloro-	120-82-1	
• Methane, bromo-	74-83-9	
• Chloroform	67-66-3	
• Carbon tetrachloride	56-23-5	
• Benzene, o-dichloro-	95-50-1	
• Benzene, p-dichloro-	106-46-7	
• Methane, dichlorodifluoro-	75-71-8	
• Ethylbenzene	100-41-4	
• Ethenylbenzene	100-42-5	
• Toluene	108-88-3	
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	
• Dichloromethane	75-09-2	
• Ethylene, tetrachloro-	127-18-4	
• Ethylene, trichloro-	79-01-6	
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	
• Ethane, 1,1-dichloro-	75-34-3	
• Ethylene, 1,1-dichloro-	75-35-4	
• Propane, 1,2-dichloro-	78-87-5	
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	
• Propene, 1,3-dichloro-, (E)-	10061-02-6	
• 1,3-Butadiene, hexachloro-	87-68-3	
• Ethane, 1,1,1-trichloro-	71-55-6	

U.S. - RCRA (Resource Conservation & Recovery Act) - Part 268 Appendix III - Halogenated Organic Compounds (HOCs)

• o-Xylene	95-47-6	Not Listed
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• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	Category I - Volatiles
• Methane, trichlorofluoro-	75-69-4	Category I - Volatiles
• Ethane, 1,1,2-trichloro-	79-00-5	Category I - Volatiles
• Ethane, 1,2-dichloro-	107-06-2	Category I - Volatiles
• Benzene, m-dichloro-	541-73-1	Category II - Semi-volatiles
• Methane, chloro-	74-87-3	Category I - Volatiles
• Ethane, 1,2-dibromo-	106-93-4	Category I - Volatiles
• Vinyl Chloride	75-01-4	Category I - Volatiles
• Ethane, chloro-	75-00-3	Category I - Volatiles
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	Category I - Volatiles
• Benzene, 1,2,4-trichloro-	120-82-1	Category II - Semi-volatiles
• Methane, bromo-	74-83-9	Category I - Volatiles
• Chloroform	67-66-3	Category I - Volatiles
• Carbon tetrachloride	56-23-5	Category I - Volatiles
• Benzene, o-dichloro-	95-50-1	Category II - Semi-volatiles
• Benzene, p-dichloro-	106-46-7	Category II - Semi-volatiles
• Methane, dichlorodifluoro-	75-71-8	Category I - Volatiles
• Ethylbenzene	100-41-4	Not Listed
• Ethenylbenzene	100-42-5	Not Listed
• Toluene	108-88-3	Not Listed
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	Not Listed
• Dichloromethane	75-09-2	Category I - Volatiles
• Ethylene, tetrachloro-	127-18-4	Category I - Volatiles
• Ethylene, trichloro-	79-01-6	Category I - Volatiles
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	Category I - Volatiles
• Ethylene, 1,1-dichloro-	75-35-4	Category I - Volatiles
• Propane, 1,2-dichloro-	78-87-5	Category I - Volatiles
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Category I - Volatiles
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Category I - Volatiles
• 1,3-Butadiene, hexachloro-	87-68-3	Category II - Semi-volatiles
• Ethane, 1,1,1-trichloro-	71-55-6	Category I - Volatiles

U.S. - RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	0.057 mg/L (wastewater); 6.0 mg/kg (nonwastewater)
• Methane, trichlorofluoro-	75-69-4	0.020 mg/L (wastewater); 30 mg/kg (nonwastewater)
• Ethane, 1,1,2-trichloro-	79-00-5	0.054 mg/L (wastewater); 6.0 mg/kg (nonwastewater)
• Ethane, 1,2-dichloro-	107-06-2	0.21 mg/L (wastewater); 6.0 mg/kg (nonwastewater)
• Benzene, m-dichloro-	541-73-1	0.036 mg/L (wastewater); 6.0 mg/kg (nonwastewater)
• Methane, chloro-	74-87-3	0.19 mg/L (wastewater); 30 mg/kg (nonwastewater)
• Ethane, 1,2-dibromo-	106-93-4	0.028 mg/L (wastewater); 15 mg/kg (nonwastewater)
• Vinyl Chloride	75-01-4	0.27 mg/L (wastewater); 6.0 mg/kg (nonwastewater)
• Ethane, chloro-	75-00-3	0.27 mg/L (wastewater); 6.0 mg/kg (nonwastewater)
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed

• Ethane, 1,1,2,2-tetrachloro-	79-34-5	0.057 mg/L (wastewater); 6.0 mg/kg (nonwastewater)
• Benzene, 1,2,4-trichloro-	120-82-1	0.055 mg/L (wastewater); 19 mg/kg (nonwastewater)
• Methane, bromo-	74-83-9	0.11 mg/L (wastewater); 15 mg/kg (nonwastewater)
• Chloroform	67-66-3	0.046 mg/L (wastewater); 6.0 mg/kg (nonwastewater)
• Carbon tetrachloride	56-23-5	0.057 mg/L (wastewater); 6.0 mg/kg (nonwastewater)
• Benzene, o-dichloro-	95-50-1	0.088 mg/L (wastewater); 6.0 mg/kg (nonwastewater)
• Benzene, p-dichloro-	106-46-7	0.090 mg/L (wastewater); 6.0 mg/kg (nonwastewater)
• Methane, dichlorodifluoro-	75-71-8	0.23 mg/L (wastewater); 7.2 mg/kg (nonwastewater)
• Ethylbenzene	100-41-4	0.057 mg/L (wastewater); 10 mg/kg (nonwastewater)
• Ethenylbenzene	100-42-5	Not Listed
• Toluene	108-88-3	0.080 mg/L (wastewater); 10 mg/kg (nonwastewater)
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	0.057 mg/L (wastewater); 30 mg/kg (nonwastewater)
• Benzene	71-43-2	0.14 mg/L (wastewater); 10 mg/kg (nonwastewater)
• Dichloromethane	75-09-2	0.089 mg/L (wastewater); 30 mg/kg (nonwastewater)
• Ethylene, tetrachloro-	127-18-4	0.056 mg/L (wastewater); 6.0 mg/kg (nonwastewater)
• Ethylene, trichloro-	79-01-6	0.054 mg/L (wastewater); 6.0 mg/kg (nonwastewater)
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	0.059 mg/L (wastewater); 6.0 mg/kg (nonwastewater)
• Ethylene, 1,1-dichloro-	75-35-4	0.025 mg/L (wastewater); 6.0 mg/kg (nonwastewater)
• Propane, 1,2-dichloro-	78-87-5	0.85 mg/L (wastewater); 18 mg/kg (nonwastewater)
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	0.036 mg/L (wastewater); 18 mg/kg (nonwastewater)
• Propene, 1,3-dichloro-, (E)-	10061-02-6	0.036 mg/L (wastewater); 18 mg/kg (nonwastewater)
• 1,3-Butadiene, hexachloro-	87-68-3	0.055 mg/L (wastewater); 5.6 mg/kg (nonwastewater)
• Ethane, 1,1,1-trichloro-	71-55-6	0.054 mg/L (wastewater); 6.0 mg/kg (nonwastewater)

U.S. - RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	
• Methane, trichlorofluoro-	75-69-4	
• Ethane, 1,1,2-trichloro-	79-00-5	
• Ethane, 1,2-dichloro-	107-06-2	
• Benzene, m-dichloro-	541-73-1	
• Methane, chloro-	74-87-3	
• Ethane, 1,2-dibromo-	106-93-4	
• Vinyl Chloride	75-01-4	
• Ethane, chloro-	75-00-3	
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	
• Benzene, 1,2,4-trichloro-	120-82-1	
• Methane, bromo-	74-83-9	
• Chloroform	67-66-3	
• Carbon tetrachloride	56-23-5	
• Benzene, o-dichloro-	95-50-1	
• Benzene, p-dichloro-	106-46-7	
• Methane, dichlorodifluoro-	75-71-8	
• Ethylbenzene	100-41-4	
• Ethenylbenzene	100-42-5	
• Toluene	108-88-3	

• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	
• Dichloromethane	75-09-2	
• Ethylene, tetrachloro-	127-18-4	
• Ethylene, trichloro-	79-01-6	
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	
• Ethylene, 1,1-dichloro-	75-35-4	
• Propane, 1,2-dichloro-	78-87-5	
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	
• Propene, 1,3-dichloro-, (E)-	10061-02-6	
• 1,3-Butadiene, hexachloro-	87-68-3	
• Ethane, 1,1,1-trichloro-	71-55-6	

U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	waste number U037
• Methane, trichlorofluoro-	75-69-4	waste number U121
• Ethane, 1,1,2-trichloro-	79-00-5	waste number U227
• Ethane, 1,2-dichloro-	107-06-2	waste number U077
• Benzene, m-dichloro-	541-73-1	waste number U071
• Methane, chloro-	74-87-3	waste number U045 (Ignitable waste, Toxic waste)
• Ethane, 1,2-dibromo-	106-93-4	waste number U067
• Vinyl Chloride	75-01-4	waste number U043
• Ethane, chloro-	75-00-3	Not Listed
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	waste number U209
• Benzene, 1,2,4-trichloro-	120-82-1	Not Listed
• Methane, bromo-	74-83-9	waste number U029
• Chloroform	67-66-3	waste number U044
• Carbon tetrachloride	56-23-5	waste number U211
• Benzene, o-dichloro-	95-50-1	waste number U070
• Benzene, p-dichloro-	106-46-7	waste number U072
• Methane, dichlorodifluoro-	75-71-8	waste number U075
• Ethylbenzene	100-41-4	Not Listed
• Ethenylbenzene	100-42-5	Not Listed
• Toluene	108-88-3	waste number U220
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	waste number U019 (Ignitable waste, Toxic waste)
• Dichloromethane	75-09-2	waste number U080
• Ethylene, tetrachloro-	127-18-4	waste number U210
• Ethylene, trichloro-	79-01-6	waste number U228
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	waste number U076
• Ethylene, 1,1-dichloro-	75-35-4	waste number U078

• Propane, 1,2-dichloro-	78-87-5	waste number U083
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	waste number U128
• Ethane, 1,1,1-trichloro-	71-55-6	waste number U226

U.S. - RCRA (Resource Conservation & Recovery Act) - Waste Minimization Priority Chemicals

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	Not Listed
• Methane, trichlorofluoro-	75-69-4	Not Listed
• Ethane, 1,1,2-trichloro-	79-00-5	Not Listed
• Ethane, 1,2-dichloro-	107-06-2	Not Listed
• Benzene, m-dichloro-	541-73-1	Not Listed
• Methane, chloro-	74-87-3	Not Listed
• Ethane, 1,2-dibromo-	106-93-4	Not Listed
• Vinyl Chloride	75-01-4	Not Listed
• Ethane, chloro-	75-00-3	Not Listed
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	Not Listed
• Benzene, 1,2,4-trichloro-	120-82-1	
• Methane, bromo-	74-83-9	Not Listed
• Chloroform	67-66-3	Not Listed
• Carbon tetrachloride	56-23-5	Not Listed
• Benzene, o-dichloro-	95-50-1	Not Listed
• Benzene, p-dichloro-	106-46-7	Not Listed
• Methane, dichlorodifluoro-	75-71-8	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Ethenylbenzene	100-42-5	Not Listed
• Toluene	108-88-3	Not Listed
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	Not Listed
• Dichloromethane	75-09-2	Not Listed
• Ethylene, tetrachloro-	127-18-4	Not Listed
• Ethylene, trichloro-	79-01-6	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	Not Listed
• Ethylene, 1,1-dichloro-	75-35-4	Not Listed
• Propane, 1,2-dichloro-	78-87-5	Not Listed
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	
• Ethane, 1,1,1-trichloro-	71-55-6	Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed

• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	Not Listed
• Methane, trichlorofluoro-	75-69-4	Not Listed
• Ethane, 1,1,2-trichloro-	79-00-5	carcinogen, initial date 10/1/90
• Ethane, 1,2-dichloro-	107-06-2	carcinogen, initial date 10/1/87
• Benzene, m-dichloro-	541-73-1	Not Listed
• Methane, chloro-	74-87-3	Not Listed
• Ethane, 1,2-dibromo-	106-93-4	carcinogen, initial date 7/1/87
• Vinyl Chloride	75-01-4	carcinogen, initial date 2/27/87
• Ethane, chloro-	75-00-3	carcinogen, initial date 7/1/90
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	carcinogen, initial date 7/1/90
• Benzene, 1,2,4-trichloro-	120-82-1	Not Listed
• Methane, bromo-	74-83-9	Not Listed
• Chloroform	67-66-3	carcinogen, initial date 10/1/87
• Carbon tetrachloride	56-23-5	carcinogen, initial date 10/1/87
• Benzene, o-dichloro-	95-50-1	Not Listed
• Benzene, p-dichloro-	106-46-7	carcinogen, initial date 1/1/89
• Methane, dichlorodifluoro-	75-71-8	Not Listed
• Ethylbenzene	100-41-4	carcinogen, initial date 6/11/04
• Ethenylbenzene	100-42-5	Not Listed
• Toluene	108-88-3	Not Listed
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	carcinogen, initial date 2/27/87
• Dichloromethane	75-09-2	carcinogen, initial date 4/1/88
• Ethylene, tetrachloro-	127-18-4	carcinogen, initial date 4/1/88
• Ethylene, trichloro-	79-01-6	carcinogen, initial date 4/1/88
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	carcinogen, initial date 1/1/90
• Ethylene, 1,1-dichloro-	75-35-4	Not Listed
• Propane, 1,2-dichloro-	78-87-5	carcinogen, initial date 1/1/90
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	carcinogen, initial date 5/3/11
• Ethane, 1,1,1-trichloro-	71-55-6	Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	Not Listed
• Methane, trichlorofluoro-	75-69-4	Not Listed
• Ethane, 1,1,2-trichloro-	79-00-5	Not Listed
• Ethane, 1,2-dichloro-	107-06-2	Not Listed
• Benzene, m-dichloro-	541-73-1	Not Listed
• Methane, chloro-	74-87-3	developmental toxicity, initial date 3/10/00
• Ethane, 1,2-dibromo-	106-93-4	developmental toxicity, initial date 5/15/98
• Vinyl Chloride	75-01-4	Not Listed
• Ethane, chloro-	75-00-3	Not Listed
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	Not Listed

• Benzene, 1,2,4-trichloro-	120-82-1	Not Listed
• Methane, bromo-	74-83-9	developmental toxicity, initial date 1/1/93 (as a structural fumigant)
• Chloroform	67-66-3	developmental toxicity, initial date 8/7/09
• Carbon tetrachloride	56-23-5	Not Listed
• Benzene, o-dichloro-	95-50-1	Not Listed
• Benzene, p-dichloro-	106-46-7	Not Listed
• Methane, dichlorodifluoro-	75-71-8	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Ethenylbenzene	100-42-5	Not Listed
• Toluene	108-88-3	developmental toxicity, initial date 1/1/91
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	developmental toxicity, initial date 12/26/97
• Dichloromethane	75-09-2	Not Listed
• Ethylene, tetrachloro-	127-18-4	Not Listed
• Ethylene, trichloro-	79-01-6	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	Not Listed
• Ethylene, 1,1-dichloro-	75-35-4	Not Listed
• Propane, 1,2-dichloro-	78-87-5	Not Listed
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	Not Listed
• Ethane, 1,1,1-trichloro-	71-55-6	Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	Not Listed
• Methane, trichlorofluoro-	75-69-4	Not Listed
• Ethane, 1,1,2-trichloro-	79-00-5	Not Listed
• Ethane, 1,2-dichloro-	107-06-2	Not Listed
• Benzene, m-dichloro-	541-73-1	Not Listed
• Methane, chloro-	74-87-3	Not Listed
• Ethane, 1,2-dibromo-	106-93-4	Not Listed
• Vinyl Chloride	75-01-4	Not Listed
• Ethane, chloro-	75-00-3	Not Listed
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	Not Listed
• Benzene, 1,2,4-trichloro-	120-82-1	Not Listed
• Methane, bromo-	74-83-9	810 µg/day MADL (inhalation, as a structural fumigant)
• Chloroform	67-66-3	Not Listed
• Carbon tetrachloride	56-23-5	Not Listed
• Benzene, o-dichloro-	95-50-1	Not Listed
• Benzene, p-dichloro-	106-46-7	Not Listed
• Methane, dichlorodifluoro-	75-71-8	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Ethenylbenzene	100-42-5	Not Listed
• Toluene	108-88-3	7000 µg/day MADL (level represents absorbed dose)
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed

• Benzene	71-43-2	24 µg/day MADL (oral); 49 µg/day MADL (inhalation)
• Dichloromethane	75-09-2	Not Listed
• Ethylene, tetrachloro-	127-18-4	Not Listed
• Ethylene, trichloro-	79-01-6	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	Not Listed
• Ethylene, 1,1-dichloro-	75-35-4	Not Listed
• Propane, 1,2-dichloro-	78-87-5	Not Listed
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	Not Listed
• Ethane, 1,1,1-trichloro-	71-55-6	Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	Not Listed
• Methane, trichlorofluoro-	75-69-4	Not Listed
• Ethane, 1,1,2-trichloro-	79-00-5	10 µg/day NSRL
• Ethane, 1,2-dichloro-	107-06-2	10 µg/day NSRL
• Benzene, m-dichloro-	541-73-1	Not Listed
• Methane, chloro-	74-87-3	Not Listed
• Ethane, 1,2-dibromo-	106-93-4	0.2 µg/day NSRL (oral); 3 µg/day NSRL (inhalation)
• Vinyl Chloride	75-01-4	3 µg/day NSRL
• Ethane, chloro-	75-00-3	150 µg/day NSRL
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	3 µg/day NSRL
• Benzene, 1,2,4-trichloro-	120-82-1	Not Listed
• Methane, bromo-	74-83-9	Not Listed
• Chloroform	67-66-3	20 µg/day NSRL (oral); 40 µg/day NSRL (inhalation)
• Carbon tetrachloride	56-23-5	5 µg/day NSRL
• Benzene, o-dichloro-	95-50-1	Not Listed
• Benzene, p-dichloro-	106-46-7	20 µg/day NSRL
• Methane, dichlorodifluoro-	75-71-8	Not Listed
• Ethylbenzene	100-41-4	54 µg/day NSRL (inhalation); 41 µg/day NSRL (oral)
• Ethenylbenzene	100-42-5	Not Listed
• Toluene	108-88-3	Not Listed
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	6.4 µg/day NSRL (oral); 13 µg/day NSRL (inhalation)
• Dichloromethane	75-09-2	200 µg/day NSRL (inhalation); 50 µg/day NSRL
• Ethylene, tetrachloro-	127-18-4	14 µg/day NSRL
• Ethylene, trichloro-	79-01-6	50 µg/day NSRL (oral); 80 µg/day NSRL (inhalation)
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	100 µg/day NSRL
• Ethylene, 1,1-dichloro-	75-35-4	Not Listed
• Propane, 1,2-dichloro-	78-87-5	9.7 µg/day NSRL
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed

• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	Not Listed
• Ethane, 1,1,1-trichloro-	71-55-6	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	Not Listed
• Methane, trichlorofluoro-	75-69-4	Not Listed
• Ethane, 1,1,2-trichloro-	79-00-5	Not Listed
• Ethane, 1,2-dichloro-	107-06-2	Not Listed
• Benzene, m-dichloro-	541-73-1	Not Listed
• Methane, chloro-	74-87-3	Not Listed
• Ethane, 1,2-dibromo-	106-93-4	Not Listed
• Vinyl Chloride	75-01-4	Not Listed
• Ethane, chloro-	75-00-3	Not Listed
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	Not Listed
• Benzene, 1,2,4-trichloro-	120-82-1	Not Listed
• Methane, bromo-	74-83-9	Not Listed
• Chloroform	67-66-3	Not Listed
• Carbon tetrachloride	56-23-5	Not Listed
• Benzene, o-dichloro-	95-50-1	Not Listed
• Benzene, p-dichloro-	106-46-7	Not Listed
• Methane, dichlorodifluoro-	75-71-8	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Ethenylbenzene	100-42-5	Not Listed
• Toluene	108-88-3	female reproductive toxicity, initial date 8/7/09
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	Not Listed
• Dichloromethane	75-09-2	Not Listed
• Ethylene, tetrachloro-	127-18-4	Not Listed
• Ethylene, trichloro-	79-01-6	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	Not Listed
• Ethylene, 1,1-dichloro-	75-35-4	Not Listed
• Propane, 1,2-dichloro-	78-87-5	Not Listed
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	Not Listed
• Ethane, 1,1,1-trichloro-	71-55-6	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	Not Listed
• Methane, trichlorofluoro-	75-69-4	Not Listed
• Ethane, 1,1,2-trichloro-	79-00-5	Not Listed
• Ethane, 1,2-dichloro-	107-06-2	Not Listed

• Benzene, m-dichloro-	541-73-1	Not Listed
• Methane, chloro-	74-87-3	male reproductive toxicity, initial date 8/7/09
• Ethane, 1,2-dibromo-	106-93-4	male reproductive toxicity, initial date 5/15/98
• Vinyl Chloride	75-01-4	Not Listed
• Ethane, chloro-	75-00-3	Not Listed
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	Not Listed
• Benzene, 1,2,4-trichloro-	120-82-1	Not Listed
• Methane, bromo-	74-83-9	Not Listed
• Chloroform	67-66-3	Not Listed
• Carbon tetrachloride	56-23-5	Not Listed
• Benzene, o-dichloro-	95-50-1	Not Listed
• Benzene, p-dichloro-	106-46-7	Not Listed
• Methane, dichlorodifluoro-	75-71-8	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Ethenylbenzene	100-42-5	Not Listed
• Toluene	108-88-3	Not Listed
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	male reproductive toxicity, initial date 12/26/97
• Dichloromethane	75-09-2	Not Listed
• Ethylene, tetrachloro-	127-18-4	Not Listed
• Ethylene, trichloro-	79-01-6	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	Not Listed
• Ethylene, 1,1-dichloro-	75-35-4	Not Listed
• Propane, 1,2-dichloro-	78-87-5	Not Listed
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	Not Listed
• Ethane, 1,1,1-trichloro-	71-55-6	Not Listed

United States - Pennsylvania

Labor

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

• o-Xylene	95-47-6	
• p-Xylene	106-42-3	
• m-Xylene	108-38-3	
• Benzene, chloro-	108-90-7	
• Methane, trichlorofluoro-	75-69-4	
• Ethane, 1,1,2-trichloro-	79-00-5	
• Ethane, 1,2-dichloro-	107-06-2	
• Benzene, m-dichloro-	541-73-1	
• Methane, chloro-	74-87-3	
• Ethane, 1,2-dibromo-	106-93-4	
• Vinyl Chloride	75-01-4	
• Ethane, chloro-	75-00-3	
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	
• Benzene, 1,2,4-trichloro-	120-82-1	
• Methane, bromo-	74-83-9	

• Chloroform	67-66-3	
• Carbon tetrachloride	56-23-5	
• Benzene, o-dichloro-	95-50-1	
• Benzene, p-dichloro-	106-46-7	
• Methane, dichlorodifluoro-	75-71-8	
• Ethylbenzene	100-41-4	
• Ethenylbenzene	100-42-5	
• Toluene	108-88-3	
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	
• Benzene	71-43-2	
• Dichloromethane	75-09-2	
• Ethylene, tetrachloro-	127-18-4	
• Ethylene, trichloro-	79-01-6	
• 1,2,4-Trimethylbenzene	95-63-6	
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	
• Ethylene, 1,1-dichloro-	75-35-4	
• Propane, 1,2-dichloro-	78-87-5	
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	
• Ethane, 1,1,1-trichloro-	71-55-6	

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• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Benzene, chloro-	108-90-7	Not Listed
• Methane, trichlorofluoro-	75-69-4	Not Listed
• Ethane, 1,1,2-trichloro-	79-00-5	Not Listed
• Ethane, 1,2-dichloro-	107-06-2	
• Benzene, m-dichloro-	541-73-1	Not Listed
• Methane, chloro-	74-87-3	Not Listed
• Ethane, 1,2-dibromo-	106-93-4	
• Vinyl Chloride	75-01-4	
• Ethane, chloro-	75-00-3	Not Listed
• Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro-	76-14-2	Not Listed
• Ethane, 1,1,2,2-tetrachloro-	79-34-5	Not Listed
• Benzene, 1,2,4-trichloro-	120-82-1	Not Listed
• Methane, bromo-	74-83-9	Not Listed
• Chloroform	67-66-3	
• Carbon tetrachloride	56-23-5	
• Benzene, o-dichloro-	95-50-1	Not Listed
• Benzene, p-dichloro-	106-46-7	
• Methane, dichlorodifluoro-	75-71-8	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Ethenylbenzene	100-42-5	Not Listed
• Toluene	108-88-3	Not Listed
• Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	Not Listed
• Benzene	71-43-2	
• Dichloromethane	75-09-2	

• Ethylene, tetrachloro-	127-18-4	
• Ethylene, trichloro-	79-01-6	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
• Ethylene, 1,2-dichloro-, (Z)-	156-59-2	Not Listed
• Ethane, 1,1-dichloro-	75-34-3	Not Listed
• Ethylene, 1,1-dichloro-	75-35-4	Not Listed
• Propane, 1,2-dichloro-	78-87-5	Not Listed
• Propene, 1,3-dichloro-, (Z)-	10061-01-5	Not Listed
• Propene, 1,3-dichloro-, (E)-	10061-02-6	Not Listed
• 1,3-Butadiene, hexachloro-	87-68-3	Not Listed
• Ethane, 1,1,1-trichloro-	71-55-6	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Relevant Phrases (code & full text)

- H220 - Extremely flammable gas
- H224 - Extremely flammable liquid and vapour
- H225 - Highly flammable liquid and vapour
- H226 - Flammable liquid and vapour
- H301 - Toxic if swallowed
- H302 - Harmful if swallowed
- H304 - May be fatal if swallowed and enters airways
- H310 - Fatal in contact with skin
- H311 - Toxic in contact with skin
- H312 - Harmful in contact with skin
- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H319 - Causes serious eye irritation
- H330 - Fatal if inhaled
- H331 - Toxic if inhaled
- H332 - Harmful if inhaled
- H335 - May cause respiratory irritation
- H336 - May cause drowsiness or dizziness
- H340 - May cause genetic defects.
- H341 - Suspected of causing genetic defects.
- H350 - May cause cancer.
- H351 - Suspected of causing cancer.
- H361d - Suspected of damaging the unborn child.
- H372 - Causes damage to organs through prolonged or repeated exposure.
- H373 - May cause damage to organs through prolonged or repeated exposure.
- H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects
- H411 - Toxic to aquatic life with long lasting effects
- H412 - Harmful to aquatic life with long lasting effects
- H420 - Harms public health and the environment by destroying ozone in the upper atmosphere.
- EUH059 - Hazardous to the ozone layer.
- EUH066 - Repeated exposure may cause skin dryness or cracking.
- R10 - Flammable.
- R11 - Highly flammable.
- R12 - Extremely flammable.
- R20 - Harmful by inhalation.
- R20/21 - Harmful by inhalation and in contact with skin.
- R20/22 - Harmful by inhalation and if swallowed.

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.
R22 - Harmful if swallowed.
R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.
R23/25 - Toxic by inhalation and if swallowed.
R24/25 - Toxic in contact with skin and if swallowed.
R26/27 - Very toxic by inhalation and in contact with skin.
R36 - Irritating to eyes.
R36/37 - Irritating to eyes and respiratory system.
R36/38 - Irritating to eyes and skin.
R36/37/38 - Irritating to eyes, respiratory system and skin.
R37 - Irritating to respiratory system.
R38 - Irritating to skin.
R40 - Limited evidence of a carcinogenic effect.
R43 - May cause sensitisation by skin contact.
R45 - May cause cancer.
R46 - May cause heritable genetic damage.
R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R48/23 - Toxic: danger of serious damage to health by prolonged exposure through inhalation.
R48/23/24/25 - Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R50 - Very toxic to aquatic organisms.
R51 - Toxic to aquatic organisms.
R52 - Harmful to aquatic organisms.
R53 - May cause long-term adverse effects in the aquatic environment.
R59 - Dangerous for the ozone layer.
R63 - Possible risk of harm to the unborn child.
R65 - Harmful: may cause lung damage if swallowed.
R66 - Repeated exposure may cause skin dryness or cracking.
R67 - Vapours may cause drowsiness and dizziness.
R68 - Possible risk of irreversible effects.

Last Revision Date

- 01/July/2013

Preparation Date

- 25/July/2012

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Key to abbreviations

NDA = No Data Available
