

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 08/04/2015 Version: 2.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Product name : 45 Components in Nitrogen

Product code : SG-2046-01566

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

Use of the substance/mixture : Test gas/Calibration gas.

1.3. Details of the supplier of the safety data sheet

Air Liquide 2700 Post Oak Boulevard Houston, TX 77056 - USA T 1-800-819-1704 www.us.airliquide.com

1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Compressed gas H280

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)





Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H280 - Contains gas under pressure; may explode if heated

H420 - Harms public health and the environment by destroying ozone in the upper atmosphere

OSHA-H01 - May displace oxygen and cause rapid suffocation

Precautionary statements (GHS-US) : P202 - Do not handle until all safety precautions have been read and understood

P271 - Use only outdoors or in a well-ventilated area

P280 - Wear eye protection, face protection, protective gloves, protective clothing P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P308+P313 - If exposed or concerned: Get medical advice/attention

P403 - Store in a well-ventilated place

P501 - Dispose of contents/container in accordance with local/regional/national/international

regulations

CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F)

CGA-PG05 - Use a back flow preventive device in the piping CGA-PG06 - Close valve after each use and when empty CGA-PG10 - Use only with equipment rated for cylinder pressure

CGA-PG14 - Approach suspected leak area with caution

CGA-PG21 - Open valve slowly

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

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SECTION 3: Composition/information on ingredients

Substance

Not applicable

3.2. **Mixture**

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Name	Product identifier	%	GHS-US classification
Nitrogen	(CAS No) 7727-37-9	99.9001 - 99.99955	Compressed gas, H280
Benzene	(CAS No) 71-43-2	0.00001 - 0.00222	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Muta. 1B, H340 Carc. 1A, H350 STOT RE 1, H372 Asp. Tox. 1, H304
Toluene	(CAS No) 108-88-3	0.00001 - 0.00222	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304
STYRENE	(CAS No) 100-42-5	0.00001 - 0.00222	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:gas), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Repr. 2, H361 STOT RE 1, H372
m-xylene	(CAS No) 108-38-3	0.00001 - 0.00222	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Asp. Tox. 1, H304
O-XYLENE	(CAS No) 95-47-6	0.00001 - 0.00222	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315
1,2,4-TRIMETHYLBENZENE	(CAS No) 95-63-6	0.00001 - 0.00222	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:gas), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Chronic 2, H411
p-Xylene	(CAS No) 106-42-3	0.00001 - 0.00222	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
1,3,5-TRIMETHYLBENZENE	(CAS No) 108-67-8	0.00001 - 0.00222	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:gas), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Chronic 2, H411
ACRYLONITRILE	(CAS No) 107-13-1	0.00001 - 0.00222	Not classified
1,3-Butadiene	(CAS No) 106-99-0	0.00001 - 0.00222	Flam. Gas 1, H220 Liquefied gas, H280 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Muta. 1B, H340 Carc. 1A, H350
CARBON TETRACHLORIDE	(CAS No) 56-23-5	0.00001 - 0.00222	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Carc. 2, H351 STOT RE 1, H372 Aquatic Chronic 3, H412 Ozone 1, H420
CHLOROBENZENE	(CAS No) 108-90-7	0.00001 - 0.00222	Not classified

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Name	Product identifier	%	GHS-US classification
1,2-DICHLOROBENZENE	(CAS No) 95-50-1	0.00001 - 0.00222	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,2-DICHLOROPROPANE	(CAS No) 78-87-5	0.00001 - 0.00222	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:gas), H332
Dichlorotetrafluoroethane (R114)	(CAS No) 76-14-2	0.00001 - 0.00222	Liquefied gas, H280 Ozone 1, H420
Chloroethane	(CAS No) 75-00-3	0.00001 - 0.00222	Flam. Gas 1, H220 Carc. 2, H351 Liquefied gas, H280 Aquatic Chronic 3, H412
Vinyl chloride	(CAS No) 75-01-4	0.00001 - 0.00222	Flam. Gas 1, H220 Liquefied gas, H280 Carc. 1A, H350 STOT RE 2, H373
Dichlorodifluoromethane (R12)	(CAS No) 75-71-8	0.00001 - 0.00222	Liquefied gas, H280 Ozone 1, H420
Ethylbenzene	(CAS No) 100-41-4	0.00001 - 0.00222	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation:vapour), H332 Carc. 2, H351 STOT RE 2, H373 Asp. Tox. 1, H304
Chloroform	(CAS No) 67-66-3	0.00001 - 0.00222	Acute Tox. 4 (Inhalation:gas), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 2, H351 Repr. 2, H361 STOT RE 1, H372
1,1,2-TRICHLOROTRIFLUOROETHANE	(CAS No) 76-13-1	0.00001 - 0.00222	Eye Irrit. 2A, H319 Aquatic Chronic 2, H411 Ozone 1, H420
TRICHLOROETHYLENE	(CAS No) 79-01-6	0.00001 - 0.00222	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Muta. 2, H341 Carc. 1B, H350 STOT SE 3, H336 Aquatic Chronic 3, H412
1,2-DICHLOROETHANE	(CAS No) 107-06-2	0.00001 - 0.00222	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 1A, H350 STOT SE 3, H335
1,2,4-TRICHLOROBENZENE	(CAS No) 120-82-1	0.00001 - 0.00222	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Acetaldehyde	(CAS No) 75-07-0	0.00001 - 0.00222	Flam. Liq. 1, H224 Eye Irrit. 2A, H319 Carc. 2, H351 STOT SE 3, H335
ACROLEIN	(CAS No) 107-02-8	0.00001 - 0.00222	Flam. Liq. 2, H225 Acute Tox. 2 (Oral), H300 Acute Tox. 3 (Dermal), H311 Acute Tox. 1 (Inhalation:gas), H330 Skin Corr. 1B, H314 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Trichlorofluoromethane	(CAS No) 75-69-4	0.00001 - 0.00222	Compressed gas, H280
TETRACHLOROETHYLENE	(CAS No) 127-18-4	0.00001 - 0.00222	Carc. 2, H351 Aquatic Chronic 2, H411
1,1,1 TRICHLOROETHANE	(CAS No) 71-55-6	0.00001 - 0.00222	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Ozone 1, H420

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Name	Product identifier	%	GHS-US classification
1,1,2,2-TETRACHLOROETHANE	(CAS No) 79-34-5	0.00001 - 0.00222	Acute Tox. 2 (Inhalation:gas), H330 Aquatic Chronic 2, H411
1,1-DICHLOROETHYLENE	(CAS No) 75-35-4	0.00001 - 0.00222	Flam. Liq. 1, H224 Acute Tox. 4 (Inhalation:gas), H332 Carc. 2, H351
1,2-DICHLOROETHYLENE (CIS)	(CAS No) 156-59-2	0.00001 - 0.00222	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation:gas), H332 Aquatic Chronic 3, H412
1,3-DICHLOROPROPENE (CIS)	(CAS No) 10061-01-5	0.00001 - 0.00222	Flam. Liq. 3, H226 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,2-DIBROMOETHANE	(CAS No) 106-93-4	0.00001 - 0.00222	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:gas), H331 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 1B, H350 STOT SE 3, H335 Aquatic Chronic 2, H411
1,3-DICHLOROBENZENE	(CAS No) 541-73-1	0.00001 - 0.00222	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation:gas), H331 Aquatic Chronic 2, H411
1,4-DICHLOROBENZENE	(CAS No) 106-46-7	0.00001 - 0.00222	Acute Tox. 3 (Inhalation:gas), H331 Eye Irrit. 2A, H319 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
HEXACHLORO-1,3-BUTADIENE	(CAS No) 87-68-3	0.00001 - 0.00222	Acute Tox. 1 (Inhalation:gas), H330 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400
METHYLENE CHLORIDE	(CAS No) 75-09-2	0.00001 - 0.00222	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 2, H351 STOT SE 3, H336
1,3-DICHLOROPROPENE (TRANS)	(CAS No) 10061-02-6	0.00001 - 0.00222	Flam. Liq. 3, H226 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation:gas), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 Asp. Tox. 1, H304
ISOPROPYL BENZENE	(CAS No) 98-82-8	0.00001 - 0.00222	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:gas), H332 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
1,1,1,2-TETRACHLOROETHANE	(CAS No) 630-20-6	0.00001 - 0.00222	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 Eye Dam. 1, H318 Carc. 2, H351
Methyl Chloride	(CAS No) 74-87-3	0.00001 - 0.00222	Liquefied gas, H280 Acute Tox. 4 (Inhalation:gas), H332

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Name	Product identifier	%	GHS-US classification
1,1-DICHLOROETHANE	(CAS No) 75-34-3	0.00001 - 0.00222	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Chronic 3, H412
1,1,2-TRICHLOROETHANE	(CAS No) 79-00-5	0.00001 - 0.00222	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Carc. 2, H351
Methyl Bromide	(CAS No) 74-83-9	0.00001 - 0.00222	Flam. Gas 2, H221 Liquefied gas, H280 Acute Tox. 2 (Inhalation:gas), H330 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Muta. 2, H341 STOT SE 3, H335 STOT RE 2, H373 Ozone 1, H420

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel

unwell, seek medical advice.

First-aid measures after skin contact : Adverse effects not expected from this product. First-aid measures after eye contact : Adverse effects not expected from this product.

First-aid measures after ingestion : Ingestion is not considered a potential route of exposure.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May displace oxygen and cause rapid suffocation.

Symptoms/injuries after skin contact : Adverse effects not expected from this product.

Symptoms/injuries after eye contact : Adverse effects not expected from this product.

Symptoms/injuries after ingestion : Ingestion is not considered a potential route of exposure.

Symptoms/injuries upon intravenous : Not known.

administration

Chronic symptoms : Adverse effects not expected from this product.

4.3. Indication of any immediate medical attention and special treatment needed

If you feel unwell, seek medical advice. If breathing is difficult, give oxygen.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : Do not use water jet to extinguish.

5.2. Special hazards arising from the substance or mixture

Fire hazard : The product is not flammable.

Explosion hazard : Product is not explosive. Heat may build pressure, rupturing closed containers, spreading fire

and increasing risk of burns and injuries.

Reactivity : None known.

5.3. Advice for firefighters

Firefighting instructions : In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Use water spray

or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.

Protection during firefighting : Standard protective clothing and equipment (e.g., Self Contained Breathing Apparatus) for fire

fighters. Do not enter fire area without proper protective equipment, including respiratory

protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure adequate ventilation.

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6.1.1. For non-emergency personnel

Protective equipment : Wear protective equipment consistent with the site emergency plan.

Emergency procedures : Escape the danger area by the closest safe route. Close doors and windows of adjacent

premises. Keep containers closed. Mark the danger area. Seal off low-lying areas. Keep

upwind.

6.1.2. For emergency responders

Protective equipment : Standard protective clothing and equipment (e.g., Self Contained Breathing Apparatus) for fire

fighters. Equip cleanup crew with proper protection.

Emergency procedures : Evacuate and limit access. Ventilate area.

6.2. Environmental precautions

Try to stop release if safe to do so.

6.3. Methods and material for containment and cleaning up

For containment : Try to stop release if safe to do so.

Methods for cleaning up : Dispose of this material and its container in accordance with local regulations.

6.4. Reference to other sections

See also Sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Pressurized container: Do not pierce or burn, even after use. Use equipment rated for cylinder

pressure. Close valve after each use and when empty.

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Use only outdoors or

in a well-ventilated area.

Hygiene measures : Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Do not expose to temperatures exceeding 52°C (125°F). Keep container closed when not in

use. Protect cylinder from physical damage. Store in well ventilated area.

Incompatible products : None known. Incompatible materials : None known.

7.3. Specific end use(s)

See Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

45 Components in Nitrogen	
ACGIH	Not applicable
OSHA	Not applicable

Benzene (71-43-2)		
ACGIH	ACGIH TWA (ppm)	0.5 ppm
ACGIH	ACGIH STEL (ppm)	2.5 ppm
OSHA	OSHA PEL (TWA) (ppm)	1 ppm
OSHA	OSHA PEL (STEL) (ppm)	5 ppm (see 29 CFR 1910.1028)
OSHA	OSHA PEL (Ceiling) (ppm)	25 ppm

	STYRENE (100-42-5)	
ACGIH Not applicable		Not applicable
	OSHA	Not applicable

Toluene (108-88-3)		
ACGIH	ACGIH TWA (ppm)	20 ppm
OSHA	OSHA PEL (TWA) (ppm)	200 ppm
OSHA	OSHA PEL (Ceiling) (ppm)	300 ppm

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1,2,4-TRIMETHYLBENZENE	(95-63-6)	
ACGIH	Not applicable	
OSHA	Not applicable	
1,3,5-TRIMETHYLBENZENE	(108-67-8)	
ACGIH	Not applicable	
OSHA	Not applicable	
m-xylene (108-38-3)		
ACGIH	Not applicable	
OSHA	Not applicable	
O-XYLENE (95-47-6)		
ACGIH	Not applicable	
OSHA	Not applicable	
p-Xylene (106-42-3)		
ACGIH	Not applicable	
OSHA	Not applicable	
	Trot applicable	
Nitrogen (7727-37-9)	Not confinely	
ACGIH	Not applicable	
OSHA	Not applicable	
1,2-DICHLOROETHYLENE (C		
ACGIH	Not applicable	
OSHA	Not applicable	
Chloroform (67-66-3)		
ACGIH	ACGIH TWA (ppm)	10 ppm
OSHA	OSHA PEL (Ceiling) (mg/m³)	240 mg/m³
OSHA	OSHA PEL (Ceiling) (ppm)	50 ppm
1,1-DICHLOROETHYLENE (7	······································	
ACGIH	Not applicable	
OSHA	Not applicable	
1,1-DICHLOROETHANE (75-	34.3)	
ACGIH	Not applicable	
OSHA	Not applicable	
1,2-DIBROMOETHANE (106-	02.4)	
ACGIH	Not applicable	
OSHA	Not applicable	
1,2-DICHLOROETHANE (107	06.2)	
ACGIH	Not applicable	
OSHA	Not applicable	
1,3-DICHLOROPROPENE (C ACGIH	Not applicable	
OSHA	Not applicable	
1,3-DICHLOROBENZENE (54	Not applicable	
	Sppilodolo	

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1,3-DICHLOROBENZENE (541-73-1)				
OSHA				
Dichlorotetrafluoroetha	Dichlorotetrafluoroethane (R114) (76-14-2)			
ACGIH	ACGIH TWA (ppm)	1000 ppm		
OSHA	OSHA PEL (TWA) (mg/m³)	7000 mg/m³		
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm		
1,2-DICHLOROPROPAL ACGIH	NE (78-87-5) Not applicable			
OSHA	Not applicable Not applicable			
ОЗПА	пот арріїсавіе			
1,2-DICHLOROBENZEN				
ACGIH	Not applicable			
OSHA	Not applicable			
CHLOROBENZENE (10	8-90-7)			
ACGIH	Not applicable			
OSHA	Not applicable			
CARBON TETRACHLO	RIDE (56-23-5)			
ACGIH	Not applicable			
OSHA	Not applicable			
1,3-Butadiene (106-99-0	0)			
ACGIH	ACGIH TWA (ppm)	2 ppm		
OSHA	OSHA PEL (TWA) (ppm)	1 ppm		
OSHA	OSHA PEL (STEL) (ppm)	5 ppm (see 29 CFR 1910.1051)		
ACRYLONITRILE (107- ACGIH	Not applicable			
OSHA	Not applicable Not applicable			
OSTIA	Not applicable			
1,1,1 TRICHLOROETHA				
ACGIH	Not applicable			
OSHA	Not applicable			
1,3-DICHLOROPROPE	NE (TRANS) (10061-02-6)			
ACGIH	Not applicable			
OSHA	Not applicable			
TETRACHLOROETHYL	.ENE (127-18-4)			
ACGIH	Not applicable			
OSHA	Not applicable			
HEXACHLORO-1,3-BU	TADIENE (87-68-3)			
ACGIH	Not applicable			
OSHA	Not applicable			
Vinyl chloride (75-01-4) ACGIH	ACGIH TWA (ppm)	1 ppm		
OSHA	OSHA PEL (TWA) (ppm)	1 ppm		
OSHA	OSHA PEL (TWA) (ppm)	5 ppm (see 29 CFR 1910.1017)		
OSHA	OSTIA FLE (STEE) (ppill)	3 ppiii (see 28 Ci K 1810.1017)		

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Methyl Chloride (74-87-3)	, No. 307 Montaly, March 20, 2012 / Naies and Negalations	
ACGIH	ACGIH TWA (ppm)	50 ppm
ACGIH	ACGIH STEL (ppm)	100 ppm
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
OSHA	OSHA PEL (Ceiling) (ppm)	200 ppm
Dichlorodifluoromethane (R		4000
ACGIH	ACGIH TWA (ppm)	1000 ppm
OSHA	OSHA PEL (TWA) (mg/m³)	4950 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
1,1,2-TRICHLOROETHANE (7		
ACGIH	Not applicable	
OSHA	Not applicable	
1,1,2,2-TETRACHLOROETHA	ANE (79-34-5)	
ACGIH	Not applicable	
OSHA	Not applicable	
METHYLENE CHLORIDE (75	-09-2)	
ACGIH	Not applicable	
OSHA	Not applicable	
Methyl Bromide (74-83-9)		
ACGIH	ACGIH TWA (ppm)	1 ppm
OSHA	OSHA PEL (Ceiling) (mg/m³)	80 mg/m³
OSHA	OSHA PEL (Ceiling) (ppm)	20 ppm
Ethylbenzene (100-41-4)		
ACGIH	ACGIH TWA (ppm)	20 ppm
OSHA	OSHA PEL (TWA) (mg/m³)	435 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
Trichlorofluoromethane (75-	69-4)	
ACGIH	Not applicable	
OSHA	Not applicable	
Chloroethane (75-00-3)		
ACGIH	ACGIH TWA (ppm)	100 ppm
OSHA	OSHA PEL (TWA) (mg/m³)	2600 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
1,1,2-TRICHLOROTRIFLUOR	OETHANE (76-13-1)	
ACGIH	Not applicable	
OSHA	Not applicable	
TRICHLOROETHYLENE (79-	01-6)	
ACGIH	Not applicable	
OSHA	Not applicable	
1,2,4-TRICHLOROBENZENE	(120-82-1)	
ACGIH	Not applicable	
OSHA	Not applicable	

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1,4-DICHLOROBENZENE (106-46-7)	
ACGIH	Not applicable
OSHA	Not applicable
Acetaldehyde (75-07-0)	
ACCIH	Not applicable

Acetaldehyde (75-07-0)	
ACGIH	Not applicable
OSHA	Not applicable

ACROLEIN (107-02-8)	
ACGIH Not applicable	
OSHA	Not applicable

ISOPROPYL BENZENE (98-82-8)	
ACGIH	Not applicable
OSHA	Not applicable

1,1,1,2-TETRACHLOROETHANE (630-20-6)	
ACGIH	Not applicable
OSHA	Not applicable

8.2. Exposure controls

Appropriate engineering controls : Ensure exposure is below occupational exposure limits. Provide adequate general and local exhaust ventilation. Systems under pressure should be regularly checked for leakages. Oxygen

exhaust ventilation. Systems under pressure should be regularly checked for leakages. Oxyge detectors should be used when asphyxiating gases may be released. Consider work permit

system e.g. for maintenance activities.

Hand protection : Wear working gloves when handling gas containers. 29 CFR 1910.138: Hand Protection. Eye protection : Wear safety glasses with side shields. 29 CFR 1910.133: Eye and Face Protection. Skin and body protection : Wear suitable protective clothing, e.g. - lab coats, coveralls or flame resistant clothing.

Respiratory protection : None necessary during normal and routine operations. See Sections 5 & 6.

Thermal hazard protection : None necessary during normal and routine operations.

Environmental exposure controls : Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for

specific methods for waste gas treatment.

Other information : Wear safety shoes while handling containers. 29 CFR 1910.136: Foot Protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Gas
Appearance : Gas.

Color : No data available
Odor : No data available
Odor threshold : No data available
pH : No data available
Melting point : No data available
Freezing point : No data available
Boiling point : No data available

Flash point : Not applicable - not flammable

Relative evaporation rate (butyl acetate=1) : No data available
Flammability (solid, gas) : See Section 2.1 and 2.2
Explosion limits : Not applicable - not flammable
Explosive properties : Not applicable - not flammable.

Oxidizing properties : None.

Vapor pressure : No data available Relative density : No data available Relative vapor density at 20 °C : No data available

Molecular mass : Not applicable for gas-mixtures.

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Relative gas density : Lighter or similar to air Solubility : No data available Log Pow : No data available Log Kow : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available : No data available Viscosity Viscosity, kinematic : No data available Viscosity, dynamic : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None known.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Under normal conditions of storage and use hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Benzene (71-43-2)			
LD50 oral rat	930 mg/kg		
LC50 inhalation rat (ppm)	13230 (13050 - 14380) ppm/4h		
ATE US (oral)	930.000 mg/kg body weight		
ATE US (gases)	13230.000 ppmV/4h		
ATE US (vapors)	11.000 mg/l/4h		
ATE US (dust, mist)	1.500 mg/l/4h		
STYRENE (100-42-5)			
LC50 inhalation rat (ppm)	2770.14 ppm/4h		
ATE US (gases)	2770.140 ppmV/4h		
Toluene (108-88-3)	Toluene (108-88-3)		
LD50 oral rat	636 mg/kg		
LD50 dermal rabbit	8390 mg/kg		
LC50 inhalation rat (mg/l)	12.5 mg/l/4h		
LC50 inhalation rat (ppm)	13001.09 ppm/4h		
ATE US (oral)	636.000 mg/kg body weight		
ATE US (dermal)	8390.000 mg/kg body weight		
ATE US (gases)	13001.090 ppmV/4h		
ATE US (vapors)	12.500 mg/l/4h		
ATE US (dust, mist)	12.500 mg/l/4h		
1,2,4-TRIMETHYLBENZENE (95-63-6)			
LC50 inhalation rat (ppm)	3661.09 ppm/4h		

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ATE US (gases) 3661.090 ppmV/4h 1,3,5.TRIMETHYUBENZENE (108-67-8) 1,3,5.TRIMETHYUBENZENE (108-67-8) ATE US (gases) 4500.000 ppmV/4h ATE US (gases) 4500 000 ppmV/4h ATE US (gases) 4500 000 ppmV/4h ATE US (gases) 4500 000 ppmV/4h ATE US (gases) 450	1,2,4-TRIMETHYLBENZENE (95-63-6)		
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ATE US (gases)	****		
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ATE US (gases) 4500.000 ppmV/4h 1,1-DICHLOROETHANE (75-34-3) ATE US (oral) 500.000 mg/kg body weight 1,2-DIBROMOETHANE (106-93-4) LC50 inhalation rat (ppm) 657.84529 ppm/4h ATE US (oral) 100.000 mg/kg body weight ATE US (gases) 700.000 ppmV/4h 1,2-DICHLOROETHANE (107-06-2) LC50 inhalation rat (ppm) 1323 ppm/4h ATE US (oral) 500.000 mg/kg body weight ATE US (gases) 1323.000 ppmV/4h ATE US (oral) 100.000 mg/kg body weight ATE US (dermal) 300.000 mg/kg body weight ATE US (gases) 4500.000 ppmV/4h ATE US (yapors) 4500.000 ppmV/4h ATE US (vapors) 11.000 mg/l/4h	1,1-DICHLOROETHYLENE (75-35-4)		
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ATE US (oral) 500.000 mg/kg body weight 1,2-DIBROMOETHANE (106-93-4) LC50 inhalation rat (ppm) 657.84529 ppm/4h ATE US (oral) 100.000 mg/kg body weight ATE US (dermal) 300.000 mg/kg body weight ATE US (gases) 700.000 ppmV/4h 1,2-DICHLOROETHANE (107-06-2) LC50 inhalation rat (ppm) 1323 ppm/4h ATE US (oral) 500.000 mg/kg body weight ATE US (gases) 1323.000 ppmV/4h 1,3-DICHLOROPROPENE (CIS) (10061-01-5) ATE US (oral) 100.000 mg/kg body weight ATE US (dermal) 300.000 mg/kg body weight ATE US (gases) 4500.000 ppmV/4h ATE US (vapors) 11.000 mg/l/4h	ATE US (gases)	4500.000 ppmV/4h	
1,2-DIBROMOETHANE (106-93-4) LC50 inhalation rat (ppm) 657.84529 ppm/4h ATE US (oral) 100.000 mg/kg body weight ATE US (dermal) 300.000 mg/kg body weight ATE US (gases) 700.000 ppmV/4h 1,2-DICHLOROETHANE (107-06-2) LC50 inhalation rat (ppm) 1323 ppm/4h ATE US (oral) 500.000 mg/kg body weight ATE US (gases) 1323.000 ppmV/4h 1,3-DICHLOROPROPENE (CIS) (10061-01-5) ATE US (oral) 100.000 mg/kg body weight ATE US (dermal) 300.000 mg/kg body weight ATE US (gases) 4500.000 ppmV/4h ATE US (vapors) 11.000 mg/l/4h	1,1-DICHLOROETHANE (75-34-3)		
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LC50 inhalation rat (ppm) 657.84529 ppm/4h ATE US (oral) 100.000 mg/kg body weight ATE US (dermal) 300.000 mg/kg body weight ATE US (gases) 700.000 ppmV/4h 1,2-DICHLOROETHANE (107-06-2) LC50 inhalation rat (ppm) 1323 ppm/4h ATE US (oral) 500.000 mg/kg body weight ATE US (gases) 1323.000 ppmV/4h 1,3-DICHLOROPROPENE (CIS) (10061-01-5) ATE US (oral) 100.000 mg/kg body weight ATE US (dermal) 300.000 mg/kg body weight ATE US (gases) 4500.000 ppmV/4h ATE US (vapors) 11.000 mg/l/4h	1,2-DIBROMOETHANE (106-93-4)		
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ATE US (dermal) 300.000 mg/kg body weight ATE US (gases) 700.000 ppmV/4h 1,2-DICHLOROETHANE (107-06-2) LC50 inhalation rat (ppm) 1323 ppm/4h ATE US (oral) 500.000 mg/kg body weight ATE US (gases) 1323.000 ppmV/4h 1,3-DICHLOROPROPENE (CIS) (10061-01-5) ATE US (oral) 100.000 mg/kg body weight ATE US (dermal) 300.000 mg/kg body weight ATE US (gases) 4500.000 ppmV/4h ATE US (vapors) 11.000 mg/l/4h	,		
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LC50 inhalation rat (ppm) 1323 ppm/4h ATE US (oral) 500.000 mg/kg body weight ATE US (gases) 1323.000 ppmV/4h 1,3-DICHLOROPROPENE (CIS) (10061-01-5) ATE US (oral) 100.000 mg/kg body weight ATE US (dermal) 300.000 mg/kg body weight ATE US (gases) 4500.000 ppmV/4h ATE US (vapors) 11.000 mg/l/4h	ATE US (gases)	700.000 ppmV/4h	
ATE US (oral) 500.000 mg/kg body weight ATE US (gases) 1323.000 ppmV/4h 1,3-DICHLOROPROPENE (CIS) (10061-01-5) ATE US (oral) 100.000 mg/kg body weight ATE US (dermal) 300.000 mg/kg body weight ATE US (gases) 4500.000 ppmV/4h ATE US (vapors) 11.000 mg/l/4h			
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ATE US (gases) 1323.000 ppmV/4h 1,3-DICHLOROPROPENE (CIS) (10061-01-5) ATE US (oral) 100.000 mg/kg body weight ATE US (dermal) 300.000 mg/kg body weight ATE US (gases) 4500.000 ppmV/4h ATE US (vapors) 11.000 mg/l/4h	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	• • • • • • • • • • • • • • • • • • • •	
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ATE US (oral) 100.000 mg/kg body weight ATE US (dermal) 300.000 mg/kg body weight ATE US (gases) 4500.000 ppmV/4h ATE US (vapors) 11.000 mg/l/4h	1,3-DICHLOROPROPENE (CIS) (10061-01-5		
ATE US (dermal) 300.000 mg/kg body weight ATE US (gases) 4500.000 ppmV/4h ATE US (vapors) 11.000 mg/l/4h	. , ,	•	
ATE US (gases) 4500.000 ppmV/4h ATE US (vapors) 11.000 mg/l/4h	` '		
ATE US (vapors) 11.000 mg/l/4h			
		**	
	ATE US (dust, mist)	1.500 mg/l/4h	

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Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

3 3	
1,3-DICHLOROBENZENE (541-73-1)	
LC50 inhalation rat (ppm)	1875.934 ppm/4h
ATE US (oral)	500.000 mg/kg body weight
ATE US (gases)	700.000 ppmV/4h
Dichlorotetrafluoroethane (R114) (76-14-2)	
LC50 inhalation rat (mg/l)	72 lb/h (Exposure time: 30 min)
LC50 inhalation rat (ppm)	254520 ppm/4h
ATE US (gases)	254520.000 ppmV/4h
1,2-DICHLOROPROPANE (78-87-5)	
LC50 inhalation rat (ppm)	4284 ppm/4h
ATE US (oral)	500.000 mg/kg body weight
ATE US (gases)	4500.000 ppmV/4h
	тооо.ооо рршил-ш
1,2-DICHLOROBENZENE (95-50-1)	500 000 mm/kg hadrousight
ATE US (oral)	500.000 mg/kg body weight
CARBON TETRACHLORIDE (56-23-5)	
ATE US (oral)	100.000 mg/kg body weight
ATE US (dermal)	300.000 mg/kg body weight
ATE US (gases)	700.000 ppmV/4h
ATE US (vapors)	3.000 mg/l/4h
ATE US (dust, mist)	0.500 mg/l/4h
1,3-Butadiene (106-99-0)	
LD50 oral rat	5480 mg/kg
LC50 inhalation rat (mg/l)	285 g/m³ (Exposure time: 4 h)
LC50 inhalation rat (ppm)	110000 ppm/4h
ATE US (oral)	5480.000 mg/kg body weight
ATE US (gases)	110000.000 ppmV/4h
ATE US (vapors)	285.000 mg/l/4h
ATE US (dust, mist)	285.000 mg/l/4h
ACRYLONITRILE (107-13-1)	
LC50 inhalation rat (ppm)	333 ppm/4h
1,1,1 TRICHLOROETHANE (71-55-6)	
	17000 ppm/4h
LC50 inhalation rat (ppm)	17000 ppm/4h 17000.000 ppmV/4h
LC50 inhalation rat (ppm) ATE US (gases)	17000.000 ppmV/4h
LC50 inhalation rat (ppm) ATE US (gases) ATE US (vapors)	17000.000 ppmV/4h 11.000 mg/l/4h
LC50 inhalation rat (ppm) ATE US (gases) ATE US (vapors) ATE US (dust, mist)	17000.000 ppmV/4h 11.000 mg/l/4h 1.500 mg/l/4h
LC50 inhalation rat (ppm) ATE US (gases) ATE US (vapors) ATE US (dust, mist) 1,3-DICHLOROPROPENE (TRANS) (10061-02-	17000.000 ppmV/4h 11.000 mg/l/4h 1.500 mg/l/4h
LC50 inhalation rat (ppm) ATE US (gases) ATE US (vapors) ATE US (dust, mist) 1,3-DICHLOROPROPENE (TRANS) (10061-02- ATE US (oral)	17000.000 ppmV/4h 11.000 mg/l/4h 1.500 mg/l/4h 6) 100.000 mg/kg body weight
LC50 inhalation rat (ppm) ATE US (gases) ATE US (vapors) ATE US (dust, mist) 1,3-DICHLOROPROPENE (TRANS) (10061-02- ATE US (oral) ATE US (dermal)	17000.000 ppmV/4h 11.000 mg/l/4h 1.500 mg/l/4h 6) 100.000 mg/kg body weight 300.000 mg/kg body weight
LC50 inhalation rat (ppm) ATE US (gases) ATE US (vapors) ATE US (dust, mist) 1,3-DICHLOROPROPENE (TRANS) (10061-02- ATE US (oral) ATE US (dermal) ATE US (gases)	17000.000 ppmV/4h 11.000 mg/l/4h 1.500 mg/l/4h 6) 100.000 mg/kg body weight
LC50 inhalation rat (ppm) ATE US (gases) ATE US (vapors) ATE US (dust, mist) 1,3-DICHLOROPROPENE (TRANS) (10061-02- ATE US (oral) ATE US (dermal) ATE US (gases) TETRACHLOROETHYLENE (127-18-4)	17000.000 ppmV/4h 11.000 mg/l/4h 1.500 mg/l/4h 6) 100.000 mg/kg body weight 300.000 mg/kg body weight 4500.000 ppmV/4h
LC50 inhalation rat (ppm) ATE US (gases) ATE US (vapors) ATE US (dust, mist) 1,3-DICHLOROPROPENE (TRANS) (10061-02- ATE US (oral) ATE US (dermal) ATE US (gases) TETRACHLOROETHYLENE (127-18-4) LC50 inhalation rat (ppm)	17000.000 ppmV/4h 11.000 mg/l/4h 1.500 mg/l/4h 6) 100.000 mg/kg body weight 300.000 mg/kg body weight
LC50 inhalation rat (ppm) ATE US (gases) ATE US (vapors) ATE US (dust, mist) 1,3-DICHLOROPROPENE (TRANS) (10061-02- ATE US (oral) ATE US (dermal) ATE US (gases) TETRACHLOROETHYLENE (127-18-4) LC50 inhalation rat (ppm) HEXACHLORO-1,3-BUTADIENE (87-68-3)	17000.000 ppmV/4h 11.000 mg/l/4h 1.500 mg/l/4h 6) 100.000 mg/kg body weight 300.000 mg/kg body weight 4500.000 ppmV/4h 7130.03 ppm/4h
LC50 inhalation rat (ppm) ATE US (gases) ATE US (vapors) ATE US (dust, mist) 1,3-DICHLOROPROPENE (TRANS) (10061-02- ATE US (oral) ATE US (dermal) ATE US (gases) TETRACHLOROETHYLENE (127-18-4) LC50 inhalation rat (ppm) HEXACHLORO-1,3-BUTADIENE (87-68-3) LC50 inhalation rat (ppm)	17000.000 ppmV/4h 11.000 mg/l/4h 1.500 mg/l/4h 6) 100.000 mg/kg body weight 300.000 mg/kg body weight 4500.000 ppmV/4h 7130.03 ppm/4h 59.07609 ppm/4h
LC50 inhalation rat (ppm) ATE US (gases) ATE US (vapors) ATE US (dust, mist) 1,3-DICHLOROPROPENE (TRANS) (10061-02- ATE US (oral) ATE US (dermal) ATE US (gases) TETRACHLOROETHYLENE (127-18-4) LC50 inhalation rat (ppm) HEXACHLORO-1,3-BUTADIENE (87-68-3) LC50 inhalation rat (ppm) ATE US (gases)	17000.000 ppmV/4h 11.000 mg/l/4h 1.500 mg/l/4h 6) 100.000 mg/kg body weight 300.000 mg/kg body weight 4500.000 ppmV/4h 7130.03 ppm/4h
LC50 inhalation rat (ppm) ATE US (gases) ATE US (vapors) ATE US (dust, mist) 1,3-DICHLOROPROPENE (TRANS) (10061-02- ATE US (oral) ATE US (dermal) ATE US (gases) TETRACHLOROETHYLENE (127-18-4) LC50 inhalation rat (ppm) HEXACHLORO-1,3-BUTADIENE (87-68-3) LC50 inhalation rat (ppm) ATE US (gases) Vinyl chloride (75-01-4)	17000.000 ppmV/4h 11.000 mg/l/4h 1.500 mg/l/4h 6) 100.000 mg/kg body weight 300.000 mg/kg body weight 4500.000 ppmV/4h 7130.03 ppm/4h 59.07609 ppm/4h 10.000 ppmV/4h
LC50 inhalation rat (ppm) ATE US (gases) ATE US (vapors) ATE US (dust, mist) 1,3-DICHLOROPROPENE (TRANS) (10061-02- ATE US (oral) ATE US (dermal) ATE US (gases) TETRACHLOROETHYLENE (127-18-4) LC50 inhalation rat (ppm) HEXACHLORO-1,3-BUTADIENE (87-68-3) LC50 inhalation rat (ppm) ATE US (gases) Vinyl chloride (75-01-4) LD50 oral rat	17000.000 ppmV/4h 11.000 mg/l/4h 1.500 mg/l/4h 6) 100.000 mg/kg body weight 300.000 mg/kg body weight 4500.000 ppmV/4h 7130.03 ppm/4h 59.07609 ppm/4h
LC50 inhalation rat (ppm) ATE US (gases) ATE US (vapors) ATE US (dust, mist) 1,3-DICHLOROPROPENE (TRANS) (10061-02- ATE US (oral) ATE US (dermal) ATE US (gases) TETRACHLOROETHYLENE (127-18-4) LC50 inhalation rat (ppm) HEXACHLORO-1,3-BUTADIENE (87-68-3) LC50 inhalation rat (ppm) ATE US (gases) Vinyl chloride (75-01-4) LD50 oral rat Methyl Chloride (74-87-3)	17000.000 ppmV/4h 11.000 mg/l/4h 1.500 mg/l/4h 6) 100.000 mg/kg body weight 300.000 mg/kg body weight 4500.000 ppmV/4h 7130.03 ppm/4h 59.07609 ppm/4h 10.000 ppmV/4h
LC50 inhalation rat (ppm) ATE US (gases) ATE US (vapors) ATE US (dust, mist) 1,3-DICHLOROPROPENE (TRANS) (10061-02-02-02-02-02-02-02-02-02-02-02-02-02-	17000.000 ppmV/4h 11.000 mg/l/4h 1.500 mg/l/4h 6) 100.000 mg/kg body weight 300.000 mg/kg body weight 4500.000 ppmV/4h 7130.03 ppm/4h 59.07609 ppm/4h 10.000 ppmV/4h 500 mg/kg
LC50 inhalation rat (ppm) ATE US (gases) ATE US (vapors) ATE US (dust, mist) 1,3-DICHLOROPROPENE (TRANS) (10061-02- ATE US (oral) ATE US (dermal) ATE US (gases) TETRACHLOROETHYLENE (127-18-4) LC50 inhalation rat (ppm) HEXACHLORO-1,3-BUTADIENE (87-68-3) LC50 inhalation rat (ppm) ATE US (gases) Vinyl chloride (75-01-4) LD50 oral rat Methyl Chloride (74-87-3) LD50 oral rat LC50 inhalation rat (mg/l)	17000.000 ppmV/4h 11.000 mg/l/4h 1.500 mg/l/4h 6) 100.000 mg/kg body weight 300.000 mg/kg body weight 4500.000 ppmV/4h 7130.03 ppm/4h 59.07609 ppm/4h 10.000 ppmV/4h 500 mg/kg
LC50 inhalation rat (ppm) ATE US (gases) ATE US (vapors) ATE US (dust, mist) 1,3-DICHLOROPROPENE (TRANS) (10061-02- ATE US (oral) ATE US (dermal) ATE US (gases) TETRACHLOROETHYLENE (127-18-4) LC50 inhalation rat (ppm) HEXACHLORO-1,3-BUTADIENE (87-68-3) LC50 inhalation rat (ppm) ATE US (gases) Vinyl chloride (75-01-4) LD50 oral rat Methyl Chloride (74-87-3) LD50 oral rat LC50 inhalation rat (mg/l) LC50 inhalation rat (ppm)	17000.000 ppmV/4h 11.000 mg/l/4h 1.500 mg/l/4h 6) 100.000 mg/kg body weight 300.000 mg/kg body weight 4500.000 ppmV/4h 7130.03 ppm/4h 59.07609 ppm/4h 10.000 ppmV/4h 590 mg/kg 1800 mg/kg 5300 mg/m³ (Exposure time: 4 h) 4150 ppm/4h
LC50 inhalation rat (ppm) ATE US (gases) ATE US (vapors) ATE US (dust, mist) 1,3-DICHLOROPROPENE (TRANS) (10061-02- ATE US (oral) ATE US (dermal) ATE US (gases) TETRACHLOROETHYLENE (127-18-4) LC50 inhalation rat (ppm) HEXACHLORO-1,3-BUTADIENE (87-68-3) LC50 inhalation rat (ppm) ATE US (gases) Vinyl chloride (75-01-4) LD50 oral rat Methyl Chloride (74-87-3) LD50 oral rat LC50 inhalation rat (mg/l) LC50 inhalation rat (ppm) ATE US (oral)	17000.000 ppmV/4h 11.000 mg/l/4h 1.500 mg/l/4h 6) 100.000 mg/kg body weight 300.000 mg/kg body weight 4500.000 ppmV/4h 7130.03 ppm/4h 59.07609 ppm/4h 10.000 ppmV/4h 500 mg/kg 1800 mg/kg 5300 mg/kg 5300 mg/m³ (Exposure time: 4 h) 4150 ppm/4h 1800.000 mg/kg body weight
LC50 inhalation rat (ppm) ATE US (gases) ATE US (vapors) ATE US (dust, mist) 1,3-DICHLOROPROPENE (TRANS) (10061-02- ATE US (oral) ATE US (dermal) ATE US (gases) TETRACHLOROETHYLENE (127-18-4) LC50 inhalation rat (ppm) HEXACHLORO-1,3-BUTADIENE (87-68-3) LC50 inhalation rat (ppm) ATE US (gases) Vinyl chloride (75-01-4) LD50 oral rat Methyl Chloride (74-87-3) LD50 oral rat LC50 inhalation rat (mg/l) LC50 inhalation rat (ppm)	17000.000 ppmV/4h 11.000 mg/l/4h 1.500 mg/l/4h 6) 100.000 mg/kg body weight 300.000 mg/kg body weight 4500.000 ppmV/4h 7130.03 ppm/4h 59.07609 ppm/4h 10.000 ppmV/4h 590 mg/kg 1800 mg/kg 5300 mg/m³ (Exposure time: 4 h) 4150 ppm/4h

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Methyl Chloride (74-87-3)		
ATE US (dust, mist)	5.300 mg/l/4h	
Dichlorodifluoromethane (R12) (75-71-8	· · · ·	
LC50 inhalation rat (ppm)	800000 ppm/4h	
ATE US (gases)	800000.000 ppmV/4h	
	000000.000 ppiiiv/4ii	
1,1,2-TRICHLOROETHANE (79-00-5)	FOO OOO marillas la alcunsial la	
ATE US (oral)	500.000 mg/kg body weight	
ATE US (dermal)	1100.000 mg/kg body weight	
ATE US (gases) ATE US (vapors)	4500.000 ppmV/4h 11.000 mg/l/4h	
ATE US (vapors) ATE US (dust, mist)		
	1.500 mg/l/4h	
1,1,2,2-TETRACHLOROETHANE (79-34-		
ATE US (gases)	100.000 ppmV/4h	
METHYLENE CHLORIDE (75-09-2)		
LC50 inhalation rat (ppm)	20105 ppm/4h	
Methyl Bromide (74-83-9)		
LD50 oral rat	214 mg/kg	
LC50 inhalation rat (ppm)	425 ppm/4h	
ATE US (oral)	214.000 mg/kg body weight	
ATE US (gases)	425.000 ppmV/4h	
Ethylbenzene (100-41-4)		
LD50 oral rat	3500 mg/kg	
LD50 dermal rabbit	15354 mg/kg	
LC50 inhalation rat (mg/l)	17.2 mg/l/4h	
LC50 inhalation rat (ppm)	8954.02 ppm/4h	
ATE US (oral)	3500.000 mg/kg body weight	
ATE US (dermal)	15354.000 mg/kg body weight	
ATE US (gases)	8954.020 ppmV/4h	
ATE US (vapors)	17.200 mg/l/4h	
ATE US (dust, mist)	17.200 mg/l/4h	
Trichlorofluoromethane (75-69-4)		
LC50 inhalation rat (ppm)	32500 ppm/4h	
,	02000 ррин ни	
Chloroethane (75-00-3)	450 m/m ³ /5m aprima filmon (0 h)	
LC50 inhalation rat (mg/l)	152 g/m³ (Exposure time: 2 h)	
LC50 inhalation rat (ppm)	40187.89 ppm/4h 40187.890 ppmV/4h	
ATE US (gases)		
ATE US (vapors) ATE US (dust, mist)	152.000 mg/l/4h 152.000 mg/l/4h	
	1	
1,1,2-TRICHLOROTRIFLUOROETHANE	,	
LC50 inhalation rat (ppm)	38500 ppm/4h	
TRICHLOROETHYLENE (79-01-6)		
LC50 inhalation rat (ppm)	13091.24 ppm/4h	
ATE US (gases)	13091.240 ppmV/4h	
1,2,4-TRICHLOROBENZENE (120-82-1)		
ATE US (oral)	500.000 mg/kg body weight	
1,4-DICHLOROBENZENE (106-46-7)		
LC50 inhalation rat (ppm)	1875.934 ppm/4h	
ATE US (gases)	700.000 ppmV/4h	
Acetaldehyde (75-07-0)		
LC50 inhalation rat (ppm)	13300 ppm/4h	
	10000 ррпичн	
ACROLEIN (107-02-8)	Orangetth	
LC50 inhalation rat (ppm)	8 ppm/4h	
ATE US (oral)	5.000 mg/kg body weight	
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ACROLEIN (107-02-8)		
ATE US (dermal)	300.000 mg/kg body weight	
ATE US (gases)	8.000 ppmV/4h	
ISOPROPYL BENZENE (98-82-8)		
LC50 inhalation rat (ppm)	7932.36836 ppm/4h	
ATE US (gases)	4500.000 ppmV/4h	
1,1,1,2-TETRACHLOROETHANE (630-20-6)		
LD50 oral rat	670 mg/kg	
LD50 dermal rabbit	20000 mg/kg	
LC50 inhalation rat (ppm)	2100 ppm/4h	
ATE US (oral)	670.000 mg/kg body weight	
ATE US (dermal)	20000.000 mg/kg body weight	
ATE US (gases)	2100.000 ppmV/4h	
ATE US (vapors)	3.000 mg/l/4h	
ATE US (dust, mist)	0.500 mg/l/4h	
Skin corrosion/irritation	Not classified	
Serious eye damage/irritation	Not classified	
Respiratory or skin sensitization	Not classified	
Germ cell mutagenicity	Not classified	
Carcinogenicity	Not classified	
Benzene (71-43-2)		
IARC group	1 - Carcinogenic to humans	
National Toxicology Program (NTP) Status	1 - Evidence of Carcinogenicity, 2 - Known Human Carcinogens	
In OSHA Hazard Communication Carcinogen list	Yes	
In OSHA Specifically Regulated Carcinogen list	Yes	
Toluene (108-88-3)		
IARC group	3 - Not classifiable	

Chloroform (67-66-3)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	1 - Evidence of Carcinogenicity, 3 - Reasonably anticipated to be Human Carcinogen
In OSHA Hazard Communication Carcinogen list	Yes

1,3-Butadiene (106-99-0)		
IARC group	1 - Carcinogenic to humans	
National Toxicology Program (NTP) Status	1 - Evidence of Carcinogenicity, 2 - Known Human Carcinogens	
In OSHA Hazard Communication Carcinogen	Yes	
list		
In OSHA Specifically Regulated Carcinogen list	Yes	

Vinyl chloride (75-01-4)		
IARC group	1 - Carcinogenic to humans	
National Toxicology Program (NTP) Status	2 - Known Human Carcinogens	
In OSHA Hazard Communication Carcinogen list	Yes	
In OSHA Specifically Regulated Carcinogen list	Yes	
Methyl Chloride (74-87-3)		
IARC group	3 - Not classifiable	

	Methyl Bromide (74-83-9)		
	IARC group	3 - Not classifiable	
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Methyl Bromide (74-83-9)	
National Toxicology Program (NTP) Status	1 - Evidence of Carcinogenicity
Ethylbenzene (100-41-4)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	1 - Evidence of Carcinogenicity
In OSHA Hazard Communication Carcinogen list	Yes

Chloroethane (75-00-3)	
IARC group	3 - Not classifiable
National Toxicology Program (NTP) Status	1 - Evidence of Carcinogenicity

Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure)

: Not classified

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : May displace oxygen and cause rapid suffocation. Symptoms/injuries after skin contact : Adverse effects not expected from this product. Symptoms/injuries after eye contact : Adverse effects not expected from this product.

Symptoms/injuries after ingestion : Ingestion is not considered a potential route of exposure.

Symptoms/injuries upon intravenous : Not

administration

: Not known.

Chronic symptoms : Adverse effects not expected from this product.

SECTION 12: Ecological information

12.1. Toxicity

Benzene (71-43-2)	
LC50 fish 1	10.7 - 14.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	8.76 - 15.6 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 other aquatic organisms 1	29 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata)
LC50 fish 2	5.3 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
EC50 Daphnia 2	10 mg/l (Exposure time: 48 h - Species: Daphnia magna)

Toluene (108-88-3)	
LC50 fish 1	15.22 - 19.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	5.46 - 9.83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

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Toluene (108-88-3)	
EC50 other aquatic organisms 1	> 433 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata)
LC50 fish 2	12.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 2	11.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 2	12.5 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata [static])

Chloroform (67-66-3)	
LC50 fish 1	71 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	29 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	18 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])

Vinyl chloride (75-01-4)	
LC50 fish 1	210 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)
EC50 other aquatic organisms 1	943 mg/l (Exposure time: 48 h - Species: Chilomonas paramecium)
Methyl Chloride (74-87-3)	
LC50 fish 1	550 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

Methyl Bromide (74-83-9)	
LC50 fish 1	11 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	2 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 1	3.2 mg/l (Exposure time: 48 h - Species: Scenedesmus quadricauda)
LC50 fish 2	0.8 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [semi-static])
EC50 Daphnia 2	1.7 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
Ethylbenzene (100-41-4)	
LC50 fish 1	11.0 - 18.0 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	1.8 - 2.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 1	4.6 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata)
LC50 fish 2	4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
EC50 other aquatic organisms 2	> 438 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata)
Chloroethane (75-00-3)	
EC50 Daphnia 1	58 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 1	39 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)

12.2. Persistence and degradability

Dichlorotetrafluoroethane (R114) (76-14-2)

Methyl Chloride (74-87-3) Persistence and degradability

Nitrogen (7727-37-9)	
Persistence and degradability	No ecological damage caused by this product.

, , , ,	
Persistence and degradability	No data available.
1,3-Butadiene (106-99-0)	
Persistence and degradability	Not readily biodegradable.
Vinyl chloride (75-01-4)	
Persistence and degradability	The substance is biodegradable. Unlikely to persist.

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The substance is biodegradable. Unlikely to persist.

Dichlorodifluoromethane (R12) (75-71-8)	
Persistence and degradability	No data available.
	·
Chloroethane (75-00-3)	
Persistence and degradability	Not readily biodegradable.
. c.o.o.cooo ua aog.aaaaa,	Tierreasily steady-tausion
12.3. Bioaccumulative potential	
Benzene (71-43-2)	
BCF fish 1	3.5 - 4.4
Log Pow	1.83
Toluene (108-88-3)	
Log Pow	2.65
Log i ow	2.00
Nitrogen (7727-37-9)	
Log Pow	Not applicable for inorganic gases.
Bioaccumulative potential	No ecological damage caused by this product.
'	140 coolegical durinage caused by this product.
Chloroform (67-66-3)	4.4.40
BCF fish 1	1.4 - 13
Log Pow	2 (at 25 °C)
Dichlorotetrafluoroethane (R114) (76-14-2	
Log Pow	2.82
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
1,3-Butadiene (106-99-0)	
BCF fish 1	13 - 19.1
Log Pow	1.99
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
Vinyl chloride (75-01-4)	
	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9. (no significant bioaccumulation) 1.52
Vinyl chloride (75-01-4) BCF fish 1	(no significant bioaccumulation)
Vinyl chloride (75-01-4) BCF fish 1 Log Pow Bioaccumulative potential	(no significant bioaccumulation) 1.52
Vinyl chloride (75-01-4) BCF fish 1 Log Pow Bioaccumulative potential Methyl Chloride (74-87-3)	(no significant bioaccumulation) 1.52 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
Vinyl chloride (75-01-4) BCF fish 1 Log Pow Bioaccumulative potential	(no significant bioaccumulation) 1.52
Vinyl chloride (75-01-4) BCF fish 1 Log Pow Bioaccumulative potential Methyl Chloride (74-87-3) Log Pow Bioaccumulative potential	(no significant bioaccumulation) 1.52 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9. 0.91
Vinyl chloride (75-01-4) BCF fish 1 Log Pow Bioaccumulative potential Methyl Chloride (74-87-3) Log Pow Bioaccumulative potential Dichlorodifluoromethane (R12) (75-71-8)	(no significant bioaccumulation) 1.52 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9. 0.91 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
Vinyl chloride (75-01-4) BCF fish 1 Log Pow Bioaccumulative potential Methyl Chloride (74-87-3) Log Pow Bioaccumulative potential Dichlorodifluoromethane (R12) (75-71-8) Log Pow	(no significant bioaccumulation) 1.52 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9. 0.91 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
Vinyl chloride (75-01-4) BCF fish 1 Log Pow Bioaccumulative potential Methyl Chloride (74-87-3) Log Pow Bioaccumulative potential Dichlorodifluoromethane (R12) (75-71-8)	(no significant bioaccumulation) 1.52 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9. 0.91 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
Vinyl chloride (75-01-4) BCF fish 1 Log Pow Bioaccumulative potential Methyl Chloride (74-87-3) Log Pow Bioaccumulative potential Dichlorodifluoromethane (R12) (75-71-8) Log Pow Bioaccumulative potential Methyl Bromide (74-83-9)	(no significant bioaccumulation) 1.52 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9. 0.91 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9. 2.16 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
Vinyl chloride (75-01-4) BCF fish 1 Log Pow Bioaccumulative potential Methyl Chloride (74-87-3) Log Pow Bioaccumulative potential Dichlorodifluoromethane (R12) (75-71-8) Log Pow Bioaccumulative potential Methyl Bromide (74-83-9) Log Pow	(no significant bioaccumulation) 1.52 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9. 0.91 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9. 2.16 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
Vinyl chloride (75-01-4) BCF fish 1 Log Pow Bioaccumulative potential Methyl Chloride (74-87-3) Log Pow Bioaccumulative potential Dichlorodifluoromethane (R12) (75-71-8) Log Pow Bioaccumulative potential Methyl Bromide (74-83-9)	(no significant bioaccumulation) 1.52 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9. 0.91 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9. 2.16 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
Vinyl chloride (75-01-4) BCF fish 1 Log Pow Bioaccumulative potential Methyl Chloride (74-87-3) Log Pow Bioaccumulative potential Dichlorodifluoromethane (R12) (75-71-8) Log Pow Bioaccumulative potential Methyl Bromide (74-83-9) Log Pow Bioaccumulative potential Ethylbenzene (100-41-4)	(no significant bioaccumulation) 1.52 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9. 0.91 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9. 2.16 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9. 1.19 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
Vinyl chloride (75-01-4) BCF fish 1 Log Pow Bioaccumulative potential Methyl Chloride (74-87-3) Log Pow Bioaccumulative potential Dichlorodifluoromethane (R12) (75-71-8) Log Pow Bioaccumulative potential Methyl Bromide (74-83-9) Log Pow Bioaccumulative potential Ethylbenzene (100-41-4) BCF fish 1	(no significant bioaccumulation) 1.52 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9. 0.91 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9. 2.16 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9. 1.19 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
Vinyl chloride (75-01-4) BCF fish 1 Log Pow Bioaccumulative potential Methyl Chloride (74-87-3) Log Pow Bioaccumulative potential Dichlorodifluoromethane (R12) (75-71-8) Log Pow Bioaccumulative potential Methyl Bromide (74-83-9) Log Pow Bioaccumulative potential Ethylbenzene (100-41-4)	(no significant bioaccumulation) 1.52 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9. 0.91 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9. 2.16 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9. 1.19 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
Vinyl chloride (75-01-4) BCF fish 1 Log Pow Bioaccumulative potential Methyl Chloride (74-87-3) Log Pow Bioaccumulative potential Dichlorodifluoromethane (R12) (75-71-8) Log Pow Bioaccumulative potential Methyl Bromide (74-83-9) Log Pow Bioaccumulative potential Ethylbenzene (100-41-4) BCF fish 1 Log Pow	(no significant bioaccumulation) 1.52 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9. 0.91 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9. 2.16 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9. 1.19 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
Vinyl chloride (75-01-4) BCF fish 1 Log Pow Bioaccumulative potential Methyl Chloride (74-87-3) Log Pow Bioaccumulative potential Dichlorodifluoromethane (R12) (75-71-8) Log Pow Bioaccumulative potential Methyl Bromide (74-83-9) Log Pow Bioaccumulative potential Ethylbenzene (100-41-4) BCF fish 1	(no significant bioaccumulation) 1.52 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9. 0.91 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9. 2.16 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9. 1.19 Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.

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12.4. Mobility in soil

Nitrogen (7727-37-9)	
Ecology - soil	No ecological damage caused by this product.
Dichlorotetrafluoroethane (R114)	(76-14-2)
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.
1,3-Butadiene (106-99-0)	
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.
Vinyl chloride (75-01-4)	
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.
Methyl Chloride (74-87-3)	
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.
Dichlorodifluoromethane (R12) (75-71-8)
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.
Methyl Bromide (74-83-9)	
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.
Chloroethane (75-00-3)	
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.

12.5. Other adverse effects

Effect on ozone layer : Harms public health and the environment by destroying ozone in the upper atmosphere

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Contact supplier if guidance is required. Do not discharge into any place where its

accumulation could be dangerous. Ensure that the emission levels from local regulations or

operating permits are not exceeded.

Waste disposal recommendations : Refer to the CGA Pamphlet P-63 "Disposal of Gases" available at www.cganet.com for more

guidance on suitable disposal methods.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1956 Compressed gas, n.o.s.

UN-No.(DOT) : UN1956

Proper Shipping Name (DOT) : Compressed gas, n.o.s. Hazard labels (DOT) : 2.2 - Non-flammable gas



DOT Packaging Non Bulk (49 CFR 173.xxx) : 302;305 DOT Packaging Bulk (49 CFR 173.xxx) : 314;315

DOT Symbols : G - Identifies PSN requiring a technical name

DOT Packaging Exceptions (49 CFR 173.xxx) : 306;307

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DOT Quantity Limitations Passenger aircraft/rail : 75 kg

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 150 kg

CFR 175.75)

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

Additional information

Other information : No supplementary information available.

ADR

Transport document description : UN 1956 COMPRESSED GAS, N.O.S., 2.2, (E)

Class (ADR) : 2 - Gases
Hazard identification number (Kemler No.) : 20
Classification code (ADR) : 1A

Hazard labels (ADR) : 2.2 - Non-flammable compressed gas



Orange plates :

20 1956

Tunnel restriction code (ADR) : E
Limited quantities (ADR) : 120ml
Excepted quantities (ADR) : E1

Transport by sea

UN-No. (IMDG) : 1956

Proper Shipping Name (IMDG) : COMPRESSED GAS, N.O.S.

Class (IMDG) : 2 - Gases

Air transport

UN-No. (IATA) : 1956

Proper Shipping Name (IATA) : COMPRESSED GAS, N.O.S.

Class (IATA) : 2

SECTION 15: Regulatory information

15.1. US Federal regulations

Benzene	(74 42 2)	
Benzene	(/1-43-2)	

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313

SARA Section 313 - Emission Reporting 0.1 %

Toluene (108-88-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313

SARA Section 313 - Emission Reporting 1.0 %

Nitrogen (7727-37-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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Chloroform (67-66-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on the United States SARA Section 302 Subject to reporting requirements of United States SARA Section 313	
SARA Section 302 Threshold Planning Quantity (TPQ)	10000
SARA Section 313 - Emission Reporting	0.1 %

Dichlorotetrafluoroethane (R114) (76-14-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
SARA Section 313 - Emission Reporting	1.0 %

1,3-Butadiene (106-99-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Subject to reporting requirements of United States SARA Section 313	
SARA Section 313 - Emission Reporting	0.1 %

Vinyl chloride (75-01-4)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
SARA Section 313 - Emission Reporting 0.1 %	
Methyl Chloride (74-87-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	

Subject to reporting requirements of officer states show section 515	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
SARA Section 313 - Emission Reporting	1.0 %
Dichlorodifluoromethane (R12) (75-71-8)	

Dichiorodiffuoroffiethaffe (K12) (75-71-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
SARA Section 313 - Emission Reporting	1.0 %

L	Methyl Bromide (74-83-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on the United States SARA Section 302 Subject to reporting requirements of United States SARA Section 313		
	SARA Section 302 Threshold Planning Quantity (TPQ)	1000
	SARA Section 313 - Emission Reporting	1.0 %

Ethylbenzene (100-41-4)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
SARA Section 313 - Emission Reporting	0.1 %

Chloroethane (75-00-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
SARA Section 313 - Emission Reporting	1.0 %

15.2. International regulations

CANADA

CANADA	
Benzene (71-43-2)	
Listed on the Canadian DSL (Domestic Sustances List)	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects

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Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Listed on the Canadian DSL (Domestic Sustances List) WHMIS Classification Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Nitrogen (7727-37-9) Listed on the Canadian DSL (Domestic Sustances List) WHMIS Classification Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class D Division 2 Subdivision B - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Clas	Talvana (400 00 2)	arch 26, 2012 / Rules and Regulations			
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Methyl Bromide (74-83-9) Listed on the Canadian DSL (Domestic Sustances List) WHMIS Classification Class A - Compressed Gas Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material Ethylbenzene (100-41-4) Listed on the Canadian DSL (Domestic Sustances List) WHMIS Classification Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Chloroethane (75-00-3) Listed on the Canadian DSL (Domestic Sustances List) WHMIS Classification Class A - Compressed Gas		s List)			
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WHMIS Classification Class A - Compressed Gas Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material Ethylbenzene (100-41-4) Listed on the Canadian DSL (Domestic Sustances List) WHMIS Classification Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class C Chloroethane (75-00-3) Listed on the Canadian DSL (Domestic Sustances List) WHMIS Classification Class A - Compressed Gas	• • •				
Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects	·	,			
Listed on the Canadian DSL (Domestic Sustances List) WHMIS Classification Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Chloroethane (75-00-3) Listed on the Canadian DSL (Domestic Sustances List) WHMIS Classification Class A - Compressed Gas	WHMIS Classification	Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects			
WHMIS Classification Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Chloroethane (75-00-3) Listed on the Canadian DSL (Domestic Sustances List) WHMIS Classification Class A - Compressed Gas	Ethylbenzene (100-41-4)				
Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Chloroethane (75-00-3) Listed on the Canadian DSL (Domestic Sustances List) WHMIS Classification Class A - Compressed Gas	Listed on the Canadian DSL (Domestic Sustances	s List)			
Listed on the Canadian DSL (Domestic Sustances List) WHMIS Classification Class A - Compressed Gas	WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects			
Listed on the Canadian DSL (Domestic Sustances List) WHMIS Classification Class A - Compressed Gas	Chloroethane (75-00-3)				
WHMIS Classification Class A - Compressed Gas	,				
Class B Division 1 - Flammable Gas	,	,			

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EU-Regulations

Benzene (71-43-2)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Toluene (108-88-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Nitrogen (7727-37-9)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Chloroform (67-66-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Dichlorotetrafluoroethane (R114) (76-14-2)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Listed on ELINCS (European List of Notified Chemical Substances)

1,3-Butadiene (106-99-0)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Vinyl chloride (75-01-4)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Methyl Chloride (74-87-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Dichlorodifluoromethane (R12) (75-71-8)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Methyl Bromide (74-83-9)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Ethylbenzene (100-41-4)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Chloroethane (75-00-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

No additional information available

National regulations

Benzene (71-43-2)

Listed on IARC (International Agency for Research on Cancer)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Listed as carcinogen on NTP (National Toxicology Program)

Listed on the Canadian IDL (Ingredient Disclosure List)

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Toluene (108-88-3)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Japanese Poisonous and Deleterious Substances Control Law

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Listed on the Canadian IDL (Ingredient Disclosure List)

Nitrogen (7727-37-9)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Chloroform (67-66-3)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Japanese Poisonous and Deleterious Substances Control Law

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Listed on the Canadian IDL (Ingredient Disclosure List)

Dichlorotetrafluoroethane (R114) (76-14-2)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Listed on the Canadian IDL (Ingredient Disclosure List)

1,3-Butadiene (106-99-0)

Listed on IARC (International Agency for Research on Cancer)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Listed as carcinogen on NTP (National Toxicology Program)

Listed on the Canadian IDL (Ingredient Disclosure List)

Vinyl chloride (75-01-4)

Listed on IARC (International Agency for Research on Cancer)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Listed as carcinogen on NTP (National Toxicology Program)

Listed on the Canadian IDL (Ingredient Disclosure List)

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Methyl Chloride (74-87-3)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Japanese Poisonous and Deleterious Substances Control Law

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Listed on the Canadian IDL (Ingredient Disclosure List)

Dichlorodifluoromethane (R12) (75-71-8)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Listed on the Canadian IDL (Ingredient Disclosure List)

Methyl Bromide (74-83-9)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Japanese Poisonous and Deleterious Substances Control Law

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Ethylbenzene (100-41-4)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Listed on the Canadian IDL (Ingredient Disclosure List)

Chloroethane (75-00-3)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Japanese Poisonous and Deleterious Substances Control Law

Listed on the Canadian IDL (Ingredient Disclosure List)

15.3. US State regulations

Benzene (71-43-2)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	Yes	No	Yes	6.4 µg/day

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cording to Federal Register / Vol.	. 77, No. 58 / Monday, March 26, 20	012 / Rules and Regulations		
Toluene (108-88-3)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	Yes	Yes	No	
Chloroform (67-66-3)				
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	level (NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
Yes	Yes	Female No	Male No	20 μg/day
163	163	NO	NO	20 μg/day
1,3-Butadiene (106-99-0)				
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	level (NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
Yes	Yes	Yes	No	0.4 μg/day
			·	·
Vinyl chloride (75-01-4)				
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	level (NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
Yes	No	No	No	3 μg/day
Methyl Chloride (74-87-3)				
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	level (NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	Yes	No	Yes	
Methyl Bromide (74-83-9)	T			
U.S California - Proposition 65 -	U.S California - Proposition 65 -	U.S California - Proposition 65 -	U.S California - Proposition 65 -	No significant risk level (NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	level (NSKL)
Odromogens List	Developmental Toxicity	Female	Male	
No	Yes	No	No	
Ethylbenzene (100-41-4)				
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	level (NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
Yes	No	No	No	54 μg/day
Chloroethane (75-00-3)				
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	level (NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
		Female	Male	

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Benzene (71-43-2)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) Special Hazardous Substances
- U.S. Pennsylvania RTK (Right to Know) List

Toluene (108-88-3)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

Nitrogen (7727-37-9)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

Chloroform (67-66-3)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) Special Hazardous Substances
- U.S. Pennsylvania RTK (Right to Know) List

Dichlorotetrafluoroethane (R114) (76-14-2)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List

1,3-Butadiene (106-99-0)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) Special Hazardous Substances
- U.S. Pennsylvania RTK (Right to Know) List

Vinyl chloride (75-01-4)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) Special Hazardous Substances
- U.S. Pennsylvania RTK (Right to Know) List

Methyl Chloride (74-87-3)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

Dichlorodifluoromethane (R12) (75-71-8)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

Methyl Bromide (74-83-9)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

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Ethylbenzene (100-41-4)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

Chloroethane (75-00-3)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

SECTION 16: Other information

Indication of changes

: Revised safety data sheet in accordance with OSHA final rule on GHS implementation promulgated March 26, 2012.

Other information

This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this product.

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Full text of H-phrases:

xt of H-phrases:	
Acute Tox. 1 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 1
Acute Tox. 2 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 2
Acute Tox. 2 (Oral)	Acute toxicity (oral) Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) Category 3
Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4 Acute toxicity (inhalation:gas) Category 4
Acute Tox. 4 (Inhalation:yas) Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:yas) Category 4 Acute toxicity (inhalation:yas) Category 4
, ,	, , , , , , , , , , , , , , , , , , , ,
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 1A	Carcinogenicity Category 1A
Carc. 1B	Carcinogenicity Category 1B
Carc. 2	Carcinogenicity Category 2
Compressed gas	Gases under pressure Compressed gas
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Gas 1	Flammable gases Category 1
Flam. Gas 2	Flammable gases Category 2
Flam. Liq. 1	Flammable liquids Category 1
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Liquefied gas	Gases under pressure Liquefied gas
Muta. 1B	Germ cell mutagenicity Category 1B
Muta. 2	Germ cell mutagenicity Category 2
Ozone 1	Hazardous to the ozone layer Category 1
Repr. 2	Reproductive toxicity Category 2
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
Skin Sens. 1B	<u> </u>
	Skin sensitization Category 1B
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H220	Extremely flammable gas
H221	Flammable gas
H224	Extremely flammable liquid and vapor
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H280	Contains gas under pressure; may explode if heated
H300	Fatal if swallowed
H301	Toxic if swallowed
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye uarriage Causes serious eye irritation
H330	Fatal if inhaled
11000	
H331	Toxic if inhaled

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H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects (Inhalation)
H341	Suspected of causing genetic defects
H350	May cause cancer
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or 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

SDS US (GHS HazCom 2012)

This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of Air Liquide America Corporation's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this product is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

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