

Safety Data Sheet

**Section 1: Identification of the Substance/Mixture and of the Company/Undertaking****1.1 Product identifier****Product Name** | 11 Components in Nitrogen**Product Code** | M-BB01086/E-1**1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified use(s)** | Test Gas/Calibration Gas**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 Regulation (EC) No 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** | Protect from sunlight when ambient temperature exceeds 125°F (52°C)
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 product is not considered dangerous under the European Directive 67/548/EEC

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**

| Protect from sunlight when ambient temperature exceeds 125°F (52°C)
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

NFPA



- Note: This SDS has been developed for various gas mixtures with the composition of components within the ranges listed in Section 3 (Composition/Information on Ingredients). All classifications provided are based on the highest end of the range provided for each component. Refer to the product label for information on the actual composition of the product.

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
Toluene	CAS:108-88-3 EC Number:203-625-9 EU Index:601-021-00-3	50ppb TO 499ppb	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 EU Index:601-022-00-9	50ppb TO 499ppb	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 (Inhalation)
o-Xylene	CAS:95-47-6 EC Number:202-422-2 EU Index:601-022-00-9	50ppb TO 499ppb	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 EU Index:601-022-00-9	50ppb TO 499ppb	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
Methyl ether	CAS:115-10-6 EC Number:204-065-8 EU Index:603-	50ppb TO 499ppb	Inhalation-Rat LC50 • 309 g/m ³ 4 Hour(s)	EU DSD/DPD: Annex I: F+; R12 EU CLP: Annex VI: Flam. Gas 1, H220; Press. Gas - Liq., H280 OSHA HCS 2012:

	019-00-8			
Methanol	CAS: 67-56-1 EC Number: 200-659-6 EU Index: 603-001-00-X	100ppb TO 499ppb	Skin-Rabbit LD50 • 15800 mg/kg Ingestion/Oral-Rat LD50 • 5600 mg/kg	EU DSD/DPD: Annex I: F; R11 T; R23/24/25-39/23/24/25 EU CLP: Annex VI: Flam. Liq. 2, H225; Acute Tox. 3, H331; Acute Tox. 3, H311; Acute Tox. 3, H301; STOT SE 1, H370 OSHA HCS 2012: Flam. Liq. 2; Eye Irrit. 2A; Skin Irrit. 2; STOT SE 1 (Eye); STOT SE 3: Narc.; STOT RE 1 (Eye); Repr. 2
Ethylbenzene	CAS: 100-41-4 EC Number: 202-849-4 EU Index: 601-023-00-4	50ppb TO 499ppb	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, H226; Acute Tox. 4, H332 OSHA HCS 2012: Flam. Liq. 2; Eye Irrit. 2A; Repr. 2.; Carc. 2; STOT SE 3: Resp. Irrit.; STOT SE 3: Narc.
Ethanol	CAS: 64-17-5 EC Number: 200-578-6 EU Index: 603-002-00-5	100ppb TO 499ppb	Ingestion/Oral-Rat LD50 • 7060 mg/kg Inhalation-Rat LC50 • 5900 mg/m ³ 6 Hour(s)	EU DSD/DPD: Annex I: F; R11 EU CLP: Annex VI: Flam. Liq. 2, H225 OSHA HCS 2012: Flam. Liq. 2; Eye Irrit. 2; Muta. 1B; Repr. 1A
Diethyl Ether	CAS: 60-29-7 EC Number: 200-467-2 EU Index: 603-022-00-4	50ppb TO 499ppb	Ingestion/Oral-Rat LD50 • 1215 mg/kg Skin-Rabbit LD50 • >20 mL/kg	EU DSD/DPD: Annex I: F+; R12 R19 Xn; R22 R66 R67 EU CLP: Annex VI: Flam. Liq. 1, H224; Acute Tox. 4, H302; STOT SE 3, H336; EUH019; EUH066 OSHA HCS 2012: Eye Irrit. 2, Acute Tox. 4 (Oral); Skin Irrit. 2; STOT SE 3: Narc.
Cyclohexane	CAS: 110-82-7 EC Number: 203-806-2 EU Index: 601-017-00-1	50ppb TO 499ppb	Ingestion/Oral-Rat LD50 • 12705 mg/kg	EU DSD/DPD: Annex I: F; R11 Xi; R38 N; R50-53 Xn; R65 R67 EU CLP: Annex VI: Flam. Liq. 2, H225; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 OSHA HCS 2012: Flam. Liq. 2; Eye Irrit. 2A; STOT SE 3: Resp. Irrit. & Narc.; Skin Irrit. 2; Asp. Tox. 1
Benzene	CAS: 71-43-2 EC Number: 200-753-7 EU Index: 601-020-00-8	50ppb TO 449ppb	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, Bone Marrow); Repr. 2; STOT SE 3: Narc.; Acute Tox. 4 (Oral)
Nitrogen	CAS: 7727-37-9 EINECS: 231-783-9	Balance	NDA	EU DSD/DPD: Not Classified EU CLP: Self Classified: Press. Gas - Comp., H280 OSHA HCS 2012: Press. Gas - Comp.; Simp. Asphyx.

See Section 16 for full text of H-statements and R-phrases.

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

- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended.

Eye

- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended.

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 | None known.

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

Emergency Procedures | 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.
- Ventilate the area.
- Isolate area until gas has dispersed.
- 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.

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. 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. Do not allow area where cylinders are stored to exceed 52C (125F).

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
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
Cyclohexane (110-82-7)	STELs	Not established	Not established	Not established	375 mg/m3 STEL	Not established
	TWAs	100 ppm TWA	100 ppm TWA	300 ppm TWAEV; 1030 mg/m3 TWAEV	250 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 (listed under Xylene (all isomers))	Not established
	TWAs	100 ppm TWA	100 ppm TWA	100 ppm TWAEV; 434 mg/m3 TWAEV	50 mg/m3 TWA (listed under Xylene (all isomers))	Not established
p-Xylene	STELs	150 ppm STEL	150 ppm STEL	150 ppm STEV; 651 mg/m3 STEV	100 mg/m3 STEL (listed under Xylene (all isomers))	Not established

(106-42-3)	TWAs	100 ppm TWA	100 ppm TWA	100 ppm TWAEV; 434 mg/m3 TWAEV	50 mg/m3 TWA (listed under Xylene (all isomers))	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 (listed under Xylene (all isomers))	Not established
	TWAs	100 ppm TWA	100 ppm TWA	100 ppm TWAEV; 434 mg/m3 TWAEV	50 mg/m3 TWA (listed under Xylene (all isomers))	Not established
Diethyl Ether (60-29-7)	STELs	500 ppm STEL	500 ppm STEL	500 ppm STEV; 1520 mg/m3 STEV	500 mg/m3 STEL	Not established
	TWAs	400 ppm TWA	400 ppm TWA	400 ppm TWAEV; 1210 mg/m3 TWAEV	300 mg/m3 TWA	Not established
Ethylbenzene (100-41-4)	STELs	Not established	Not established	125 ppm STEV; 543 mg/m3 STEV	150 mg/m3 STEL	Not established
	TWAs	20 ppm TWA	20 ppm TWA	100 ppm TWAEV; 434 mg/m3 TWAEV	100 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 substances regulation does not apply); 0.5 ppm TWA (designated substances regulation)	1 ppm TWAEV; 3 mg/m3 TWAEV	6 mg/m3 TWA	6 mg/m3 TWA
Methanol (67-56-1)	STELs	250 ppm STEL	250 ppm STEL	250 ppm STEV; 328 mg/m3 STEV	50 mg/m3 STEL	Not established
	TWAs	200 ppm TWA	200 ppm TWA	200 ppm TWAEV; 262 mg/m3 TWAEV	25 mg/m3 TWA	Not established
Ethanol (64-17-5)	STELs	1000 ppm STEL	1000 ppm STEL	Not established	Not established	Not established
	TWAs	Not established	Not established	1000 ppm TWAEV; 1880 mg/m3 TWAEV	Not established	Not established
Exposure Limits/Guidelines (Con't.)						
	Result	Europe	France	Germany DFG	Germany TRGS	Ireland
	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
					50 ppm TWA AGW (The risk of damage to the embryo or	

Toluene (108-88-3)	TWAs	50 ppm TWA; 192 mg/m3 TWA	20 ppm TWA [VME] (restrictive limit); 76.8 mg/m3 TWA [VME] (restrictive limit)	Not established	fetus can be excluded when AGW and BGW values are observed, exposure factor 4); 190 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 4)	50 ppm TWA; 192 mg/m3 TWA
	Ceilings	Not established	Not established	200 ppm Peak; 760 mg/m3 Peak	Not established	Not established
	MAKs	Not established	Not established	50 ppm TWA MAK; 190 mg/m3 TWA MAK	Not established	Not established
Cyclohexane (110-82-7)	TWAs	200 ppm TWA; 700 mg/m3 TWA	200 ppm TWA [VME] (restrictive limit); 700 mg/m3 TWA [VME] (restrictive limit)	Not established	200 ppm TWA AGW (exposure factor 4); 700 mg/m3 TWA AGW (exposure factor 4)	200 ppm TWA; 700 mg/m3 TWA
	STELs	Not established	375 ppm STEL [VLCT]; 1300 mg/m3 STEL [VLCT]	Not established	Not established	Not established
	Ceilings	Not established	Not established	800 ppm Peak; 2800 mg/m3 Peak	Not established	Not established
	MAKs	Not established	Not established	200 ppm TWA MAK; 700 mg/m3 TWA MAK	Not established	Not established
o-Xylene (95-47-6)	STELs	Not established	100 ppm STEL [VLCT] (restrictive limit); 442 mg/m3 STEL [VLCT] (restrictive limit)	Not established	Not established	100 ppm STEL; 442 mg/m3 STEL
	TWAs	Not established	50 ppm TWA [VME] (restrictive limit); 221 mg/m3 TWA [VME] (restrictive limit)	Not established	Not established	50 ppm TWA; 221 mg/m3 TWA
p-Xylene (106-42-3)	STELs	Not established	100 ppm STEL [VLCT] (restrictive limit); 442 mg/m3 STEL [VLCT] (restrictive limit)	Not established	Not established	100 ppm STEL; 442 mg/m3 STEL
	TWAs	Not established	50 ppm TWA [VME] (restrictive limit); 221 mg/m3 TWA [VME] (restrictive limit)	Not established	Not established	50 ppm TWA; 221 mg/m3 TWA
m-Xylene (108-38-3)	STELs	Not established	100 ppm STEL [VLCT] (restrictive limit); 442 mg/m3 STEL [VLCT] (restrictive limit)	Not established	Not established	100 ppm STEL; 442 mg/m3 STEL
	TWAs	Not established	50 ppm TWA [VME] (restrictive limit); 221 mg/m3 TWA [VME]	Not established	Not established	50 ppm TWA; 221 mg/m3 TWA

			(restrictive limit)			
Diethyl Ether (60-29-7)	STELs	Not established	200 ppm STEL [VLCT] (restrictive limit); 616 mg/m3 STEL [VLCT] (restrictive limit)	Not established	Not established	200 ppm STEL; 616 mg/m3 STEL
	TWAs	Not established	100 ppm TWA [VME] (restrictive limit); 308 mg/m3 TWA [VME] (restrictive limit)	Not established	400 ppm TWA AGW (exposure factor 1); 1200 mg/m3 TWA AGW (exposure factor 1)	100 ppm TWA; 308 mg/m3 TWA
	Ceilings	Not established	Not established	400 ppm Peak; 1200 mg/m3 Peak	Not established	Not established
	MAKs	Not established	Not established	400 ppm TWA MAK; 1200 mg/m3 TWA MAK	Not established	Not established
Ethylbenzene (100-41-4)	STELs	Not established	100 ppm STEL [VLCT] (restrictive limit); 442 mg/m3 STEL [VLCT] (restrictive limit)	Not established	Not established	200 ppm STEL; 884 mg/m3 STEL
	TWAs	Not established	20 ppm TWA [VME] (restrictive limit); 88.4 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); 88 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)	100 ppm TWA; 442 mg/m3 TWA
	Ceilings	Not established	Not established	40 ppm Peak; 176 mg/m3 Peak	Not established	Not established
	MAKs	Not established	Not established	20 ppm TWA MAK; 88 mg/m3 TWA MAK	Not established	Not established
Benzene (71-43-2)	TWAs	Not established	1 ppm TWA [VME] (restrictive limit); 3.25 mg/m3 TWA [VME] (restrictive limit)	Not established	Not established	1 ppm TWA; 3 mg/m3 TWA
Methyl ether (115-10-6)	TWAs	Not established	1000 ppm TWA [VME] (indicative limit); 1920 mg/m3 TWA [VME] (indicative limit)	Not established	1000 ppm TWA AGW (exposure factor 8); 1900 mg/m3 TWA AGW (exposure factor 8)	1000 ppm TWA; 1920 mg/m3 TWA
	Ceilings	Not established	Not established	8000 ppm Peak; 15200 mg/m3 Peak	Not established	Not established
	MAKs	Not established	Not established	1000 ppm TWA MAK; 1900 mg/m3 TWA MAK	Not established	Not established
					200 ppm TWA AGW (The risk of damage	

Methanol (67-56-1)	TWAs	200 ppm TWA; 260 mg/m ³ TWA	200 ppm TWA [VME]; 260 mg/m ³ TWA [VME]	Not established	to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 4); 270 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)	200 ppm TWA; 260 mg/m ³ TWA
	STELs	Not established	1000 ppm STEL [VLCT]; 1300 mg/m ³ STEL [VLCT]	Not established	Not established	Not established
	Ceilings	Not established	Not established	800 ppm Peak; 1080 mg/m ³ Peak	Not established	Not established
	MAKs	Not established	Not established	200 ppm TWA MAK; 270 mg/m ³ TWA MAK	Not established	Not established
Ethanol (64-17-5)	STELs	Not established	5000 ppm STEL [VLCT]; 9500 mg/m ³ STEL [VLCT]	Not established	Not established	1000 ppm STEL
	TWAs	Not established	1000 ppm TWA [VME]; 1900 mg/m ³ TWA [VME]	Not established	500 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); 960 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	1000 ppm Peak; 1920 mg/m ³ Peak	Not established	Not established
	MAKs	Not established	Not established	500 ppm TWA MAK; 960 mg/m ³ TWA MAK	Not established	Not established
Exposure Limits/Guidelines (Con't.)						
	Result	Israel	Italy	NIOSH	OSHA	OSHA Vacated
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	100 ppm TWA; 375 mg/m ³ TWA
	Ceilings	Not established	Not established	Not established	300 ppm Ceiling	Not established
	STELs	Not established	Not established	150 ppm STEL; 560 mg/m ³ STEL	Not established	150 ppm STEL; 560 mg/m ³ STEL
Cyclohexane (110-82-7)	TWAs	100 ppm TWA	100 ppm TWA; 350 mg/m ³ TWA	300 ppm TWA; 1050 mg/m ³ TWA	300 ppm TWA; 1050 mg/m ³ TWA	300 ppm TWA; 1050 mg/m ³ TWA
o-Xylene	STELs	150 ppm STEL	100 ppm STEL; 442 mg/m ³ STEL	150 ppm STEL; 655 mg/m ³ STEL	Not established	Not established

(95-47-6)	TWAs	100 ppm TWA	50 ppm TWA; 221 mg/m3 TWA	100 ppm TWA; 435 mg/m3 TWA	Not established	Not established
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	Not established
	TWAs	100 ppm TWA	50 ppm TWA; 221 mg/m3 TWA	100 ppm TWA; 435 mg/m3 TWA	Not established	Not established
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	Not established
	TWAs	100 ppm TWA	50 ppm TWA; 221 mg/m3 TWA	100 ppm TWA; 435 mg/m3 TWA	Not established	Not established
Diethyl Ether (60-29-7)	STELs	500 ppm STEL	200 ppm STEL; 616 mg/m3 STEL	Not established	Not established	500 ppm STEL; 1500 mg/m3 STEL
	TWAs	400 ppm TWA	100 ppm TWA; 308 mg/m3 TWA	Not established	400 ppm TWA; 1200 mg/m3 TWA	400 ppm TWA; 1200 mg/m3 TWA
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; 545 mg/m3 STEL
	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; 435 mg/m3 TWA
Benzene (71-43-2)	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	10 ppm TWA (unless specified in 1910.1028)
	STELs	2.5 ppm STEL	Not established	1 ppm STEL	5 ppm STEL (see 29 CFR 1910.1028)	50 ppm STEL (unless specified in 1910.1028, 10 min)
	Ceilings	Not established	Not established	Not established	25 ppm Ceiling	25 ppm Ceiling (unless specified in 1910.1028)
Methyl ether (115-10-6)	TWAs	Not established	1000 ppm TWA; 1920 mg/m3 TWA	Not established	Not established	Not established
Methanol (67-56-1)	TWAs	200 ppm TWA	200 ppm TWA; 260 mg/m3 TWA	200 ppm TWA; 260 mg/m3 TWA	200 ppm TWA; 260 mg/m3 TWA	200 ppm TWA; 260 mg/m3 TWA
	STELs	250 ppm STEL	Not established	250 ppm STEL; 325 mg/m3 STEL	Not established	250 ppm STEL; 325 mg/m3 STEL
Ethanol (64-17-5)	STELs	1000 ppm STEL	Not established	Not established	Not established	Not established
	TWAs	Not established	Not established	1000 ppm TWA; 1900 mg/m3 TWA	1000 ppm TWA; 1900 mg/m3 TWA	1000 ppm TWA; 1900 mg/m3 TWA

Exposure Limits/Guidelines (Con't.)

	Result	Portugal	Spain	Sweden
Toluene	TWAs	50 ppm TWA [VLE-MP]	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; 192 mg/m3 LLV

(108-88-3)	STELs	Not established	100 ppm STEL [VLA-EC]; 384 mg/m3 STEL [VLA-EC]	100 ppm STV; 384 mg/m3 STV
	Biological Limit Values (BLV)	Not established	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
Cyclohexane (110-82-7)	TWAs	100 ppm TWA [VLE-MP]	200 ppm TWA [VLA-ED] (indicative limit value; manufacturing, commercialization, and use restrictions under REACH); 700 mg/m3 TWA [VLA-ED] (indicative limit value; manufacturing, commercialization, and use restrictions under REACH)	300 ppm LLV; 1000 mg/m3 LLV
	STELs	Not established	Not established	370 ppm STV; 1300 mg/m3 STV
o-Xylene (95-47-6)	STELs	150 ppm STEL [VLE-CD]	100 ppm STEL [VLA-EC]; 442 mg/m3 STEL [VLA-EC]	100 ppm STV; 442 mg/m3 STV
	TWAs	100 ppm TWA [VLE-MP]	50 ppm TWA [VLA-ED] (indicative limit value); 221 mg/m3 TWA [VLA-ED] (indicative limit value)	50 ppm LLV; 221 mg/m3 LLV
p-Xylene (106-42-3)	STELs	150 ppm STEL [VLE-CD]	100 ppm STEL [VLA-EC]; 442 mg/m3 STEL [VLA-EC]	100 ppm STV; 442 mg/m3 STV
	TWAs	100 ppm TWA [VLE-MP]	50 ppm TWA [VLA-ED] (indicative limit value); 221 mg/m3 TWA [VLA-ED] (indicative limit value)	50 ppm LLV; 221 mg/m3 LLV
m-Xylene (108-38-3)	STELs	150 ppm STEL [VLE-CD]	100 ppm STEL [VLA-EC]; 442 mg/m3 STEL [VLA-EC]	100 ppm STV; 442 mg/m3 STV
	TWAs	100 ppm TWA [VLE-MP]	50 ppm TWA [VLA-ED] (indicative limit value); 221 mg/m3 TWA [VLA-ED] (indicative limit value)	50 ppm LLV; 221 mg/m3 LLV
Diethyl Ether (60-29-7)	STELs	500 ppm STEL [VLE-CD]	200 ppm STEL [VLA-EC]; 616 mg/m3 STEL [VLA-EC]	400 ppm STV; 1200 mg/m3 STV
	TWAs	400 ppm TWA [VLE-MP]	100 ppm TWA [VLA-ED] (indicative limit value); 308 mg/m3 TWA [VLA-ED]	300 ppm LLV; 900 mg/m3 LLV

			(indicative limit value)	
Ethylbenzene (100-41-4)	STELs	125 ppm STEL [VLE-CD]	200 ppm STEL [VLA-EC]; 884 mg/m ³ STEL [VLA-EC]	100 ppm STV; 450 mg/m ³ STV
	TWAs	100 ppm TWA [VLE-MP]	100 ppm TWA [VLA-ED] (indicative limit value); 441 mg/m ³ TWA [VLA-ED] (indicative limit value)	50 ppm LLV; 200 mg/m ³ LLV
	Biological Limit Values (BLV)	Not established	700 mg/g Creatinine urine end of workweek Mandelic acid plus Phenylglyoxylic acid (1,I,S)	Not established
Benzene (71-43-2)	STELs	2.5 ppm STEL [VLE-CD]	Not established	3 ppm STV; 9 mg/m ³ STV
	TWAs	0.5 ppm TWA [VLE-MP]	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/m ³ TWA [VLA-ED] (manufacturing, commercialization, and use restrictions under REACH; worker protection to carcinogens in the workplace)	0.5 ppm LLV; 1.5 mg/m ³ LLV
	Biological Limit Values (BLV)	Not established	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
Methyl ether (115-10-6)	TWAs	Not established	1000 ppm TWA [VLA-ED] (indicative limit value); 1920 mg/m ³ TWA [VLA-ED] (indicative limit value)	500 ppm LLV; 950 mg/m ³ LLV
	STELs	Not established	Not established	800 ppm STV; 1500 mg/m ³ STV
	STELs	250 ppm STEL [VLE-CD]	Not established	250 ppm STV; 350 mg/m ³ STV
			200 ppm TWA [VLA-	

Methanol (67-56-1)	TWAs	200 ppm TWA [VLE-MP]	ED] (indicative limit value); 266 mg/m ³ TWA [VLA-ED] (indicative limit value)	200 ppm LLV; 250 mg/m ³ LLV
	Biological Limit Values (BLV)	Not established	15 mg/L urine end of shift Methanol (2)	Not established
Ethanol (64-17-5)	TWAs	1000 ppm TWA [VLE-MP]	1000 ppm TWA [VLA-ED] (it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary or biocide compound); 1910 mg/m ³ TWA [VLA-ED] (it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary or biocide compound)	500 ppm LLV; 1000 mg/m ³ LLV
	STELs	Not established	1000 ppm STEL [VLA-EC]; 1910 mg/m ³ STEL [VLA-EC]	1000 ppm STV; 1900 mg/m ³ STV

Exposure Control Notations

Portugal

- Benzene (71-43-2): **Carcinogens:** (A1 - Confirmed Human Carcinogen) | **Skin:** (skin - potential for cutaneous exposure)
- Ethanol (64-17-5): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)
- Ethylbenzene (100-41-4): **Carcinogens:** (A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans)
- Methanol (67-56-1): **Skin:** (skin - potential for cutaneous exposure)
- Toluene (108-88-3): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen) | **Skin:** (skin - potential for cutaneous exposure)
- m-Xylene (108-38-3): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)
- o-Xylene (95-47-6): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)
- p-Xylene (106-42-3): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)
- Nitrogen (7727-37-9): **Simple Asphyxiants:** (Simple Asphyxiant)

Italy

- Benzene (71-43-2): **Carcinogens:** (Category 1 Carcinogen) | **Skin:** (skin - potential for cutaneous absorption)
- Ethylbenzene (100-41-4): **Skin:** (skin - potential for cutaneous absorption)
- Methanol (67-56-1): **Skin:** (skin - potential for cutaneous absorption)
- Toluene (108-88-3): **Skin:** (skin - potential for cutaneous absorption)
- m-Xylene (108-38-3): **Skin:** (skin - potential for cutaneous absorption)
- o-Xylene (95-47-6): **Skin:** (skin - potential for cutaneous absorption)
- p-Xylene (106-42-3): **Skin:** (skin - potential for cutaneous absorption)

France

- Benzene (71-43-2): **Carcinogens:** (Carcinogen category 1) | **Mutagens:** (Mutagen category 2)
- Toluene (108-88-3): **Reproductive Toxins:** (Reproductive Toxin category 3)

Ireland

- Benzene (71-43-2): **Carcinogens:** (Carc1A) | **Skin:** (Potential for cutaneous absorption)
- Ethylbenzene (100-41-4): **Skin:** (Potential for cutaneous absorption)
- Methanol (67-56-1): **Skin:** (Potential for cutaneous absorption)
- Toluene (108-88-3): **Skin:** (Potential for cutaneous absorption)
- m-Xylene (108-38-3): **Skin:** (Potential for cutaneous absorption)
- o-Xylene (95-47-6): **Skin:** (Potential for cutaneous absorption)

•p-Xylene (106-42-3): **Skin:** (Potential for cutaneous absorption)

•Nitrogen (7727-37-9): **Simple Asphyxiants:** (Asphyxiant)

Spain

•Benzene (71-43-2): **Carcinogens:** (Known human carcinogen) | **Mutagens:** (Suspected human mutagen) | **Skin:** (skin - potential for cutaneous exposure)

•Ethylbenzene (100-41-4): **Skin:** (skin - potential for cutaneous exposure)

•Methanol (67-56-1): **Skin:** (skin - potential for cutaneous exposure)

•Toluene (108-88-3): **Skin:** (skin - potential for cutaneous exposure)

•m-Xylene (108-38-3): **Skin:** (skin - potential for cutaneous exposure)

•o-Xylene (95-47-6): **Skin:** (skin - potential for cutaneous exposure)

•p-Xylene (106-42-3): **Skin:** (skin - potential for cutaneous exposure)

•Nitrogen (7727-37-9): **Simple Asphyxiants:** (simple asphyxiant)

Sweden

•Benzene (71-43-2): **Carcinogens:** (Carcinogen) | **Skin:** (Skin notation)

•Methanol (67-56-1): **Skin:** (Skin notation)

•Toluene (108-88-3): **Skin:** (Skin notation)

•m-Xylene (108-38-3): **Skin:** (Skin notation)

•o-Xylene (95-47-6): **Skin:** (Skin notation)

•p-Xylene (106-42-3): **Skin:** (Skin notation)

Germany TRGS

•Ethylbenzene (100-41-4): **Skin:** (skin notation)

•Methanol (67-56-1): **Skin:** (skin notation)

•Toluene (108-88-3): **Skin:** (skin notation)

Germany DFG

•Benzene (71-43-2): **Carcinogens:** (Category 1 (causes cancer in man)) | **Skin:** (skin notation)

•Cyclohexane (110-82-7): **Pregnancy:** (classification not yet possible)

•Methyl ether (115-10-6): **Pregnancy:** (classification not yet possible)

•Ethanol (64-17-5): **Carcinogens:** (Category 5 (low carcinogenic potency)) | **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to)

•Ethylbenzene (100-41-4): **Carcinogens:** (Category 4 (no significant contribution to human cancer)) | **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to) | **Skin:** (skin notation)

•Methanol (67-56-1): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to) | **Skin:** (skin notation)

•Toluene (108-88-3): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to) | **Skin:** (skin notation)

•Diethyl Ether (60-29-7): **Pregnancy:** (classification not yet possible)

Exposure Limits Supplemental

Spain

•Ethanol (64-17-5): **Under Review:** (1000 ppm VLA-EC; 1910 mg/m³ VLA-EC; it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary or biocide compound)

Sweden

•Toluene (108-88-3): **Substances with Handling Restrictions:** (Permission required for handling in concentrations $\geq 1\%$ by weight)

8.2 Exposure controls

Engineering

Measures/Controls

- | Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Equipment

Respiratory

- | Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

- | Wear safety glasses.

Skin/Body

- | Wear leather gloves when handling cylinders.

Environmental Exposure Controls

- | Follow best practice for site management and disposal of waste. Controls should be engineered to prevent release to the environment, including procedures to prevent

spills, atmospheric release and release to waterways.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

LLV = Limit Level Value is the exposure limit for 8-hour work day

MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

STEL = Short Term Exposure Limits are based on 15-minute exposures

STEV = Short Term Exposure Value

TWAEV = Time-Weighted Average Exposure Value

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Gas	Appearance/Description	Colorless gas with no odor.
Color	Colorless	Odor	Odorless
Odor Threshold	Not relevant		
General Properties			
Boiling Point	-196 C(-320.8 F) Nitrogen	Melting Point	-210 C(-346 F) Nitrogen
Decomposition Temperature	Data lacking	pH	Not relevant
Specific Gravity/Relative Density	0.97 Water=1 Nitrogen	Water Solubility	Data lacking
Viscosity	Data lacking	Explosive Properties	Not explosive.
Oxidizing Properties:	Not an oxidizing gas.		
Volatility			
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

- Nitrogen reacts with Li, Nd, and Ti at high temperatures.

10.6 Hazardous decomposition products

- None

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Components		
Benzene (50ppb TO 449ppb)	71-43-2	Acute Toxicity: Ingestion/Oral-Rat LD50 • 1800 mg/kg; Inhalation-Rat LC50 • 10000 ppm 7 Hour(s); Irritation: Eye-Rabbit • 2 mg 24 Hour(s) • Severe irritation; Skin-Rabbit • 15 mg 24 Hour(s)-Open • Mild irritation; Mutagen: Dominant lethal test • Ingestion/Oral-Mouse • 1 mg/kg; Sister chromatid exchange • Inhalation-Mouse • 10 ppm 6 Hour(s); Reproductive: Inhalation-Rat TCLo • 50 ppm 24 Hour(s)(7-14D preg); <i>Reproductive Effects:Effects on Embryo or Fetus:Extra embryonic structures; Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus);</i> Tumorigen / Carcinogen: Ingestion/Oral-Rat TDLo • 52 g/kg 52 Week(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria; Endocrine:Tumors; Blood:Leukemia</i>
Cyclohexane (50ppb TO 499ppb)	110-82-7	Acute Toxicity: Ingestion/Oral-Rat LD50 • 12705 mg/kg; Irritation: Skin-Rabbit • 1548 mg 2 Day(s)-Intermittent
Methyl ether (50ppb TO 499ppb)	115-10-6	Acute Toxicity: Inhalation-Rat LC50 • 309 g/m ³ 4 Hour(s)
Ethanol (100ppb TO 499ppb)	64-17-5	Acute Toxicity: Ingestion/Oral-Rat LD50 • 7060 mg/kg; <i>Lungs, Thorax, or Respiration:Other changes;</i> Inhalation-Rat LC50 • 124700 mg/m ³ 4 Hour(s); Irritation: Eye-Rabbit • 500 mg • Severe irritation; Skin-Rabbit • 400 mg-Open • Mild irritation; Reproductive: Ingestion/Oral-Rat TDLo • 322 g/kg (35D male); <i>Reproductive Effects:Paternal Effects:Spermatogenesis; Reproductive Effects:Paternal Effects:Testes, epididymis, sperm duct;</i> Ingestion/Oral-Rat TDLo • 900 mL/kg (19D pre-21D post); <i>Reproductive Effects:Specific Developmental Abnormalities:Central nervous system; Reproductive Effects:Effects on Newborn:Growth statistics (e.g., reduced weight gain); Reproductive Effects:Effects on Newborn:Biochemical and metabolic</i>
Ethylbenzene (50ppb TO 499ppb)	100-41-4	Acute Toxicity: Ingestion/Oral-Rat LD50 • 3500 mg/kg; Inhalation-Rat LC50 • 55000 mg/m ³ 2 Hour(s); Skin-Rabbit LD50 • 17800 µL/kg; Irritation: Eye-Rabbit • 500 mg • Severe irritation; Skin-Rabbit • 15 mg 24 Hour(s)-Open • Mild irritation; Reproductive: Inhalation-Rat TCLo • 1000 ppm (6H/6-20D preg); <i>Reproductive Effects:Specific Developmental Abnormalities:Other developmental abnormalities; Reproductive Effects:Specific Developmental Abnormalities:Musculoskeletal system;</i> Tumorigen / Carcinogen: Inhalation-Rat TCLo • 750 ppm 1 Week(s)-Intermittent; <i>Tumorigenic:Equivocal tumorigenic agent by RTECS criteria; Kidney, Ureter, and Bladder:Kidney tumors; Tumorigenic:Increased incidence of tumors in susceptible strains</i>
Methanol (100ppb TO 499ppb)	67-56-1	Acute Toxicity: Ingestion/Oral-Rat LD50 • 5600 mg/kg; Inhalation-Rat LC50 • 64000 ppm 4 Hour(s); Skin-Rabbit LD50 • 15800 mg/kg; Irritation: Eye-Rabbit • 100 mg 24 Hour(s) • Moderate irritation; Skin-Rabbit • 20 mg 24 Hour(s) • Moderate irritation; Mutagen: Cytogenetic analysis • Ingestion/Oral-Mouse • 1 g/kg; DNA damage • Ingestion/Oral-Rat • 10 µmol/kg; Reproductive: Inhalation-Mouse TCLo • 5000 ppm 7 Hour(s)(6-15D preg); <i>Reproductive Effects:Specific Developmental Abnormalities:Central nervous system; Reproductive Effects:Specific Developmental Abnormalities:Craniofacial (including nose and tongue); Inhalation-Mouse TCLo • 2000 ppm 7 Hour(s)(6-15D preg); Reproductive Effects:Specific Developmental Abnormalities:Musculoskeletal system</i>
		Acute Toxicity: Inhalation-Rat LC50 • 49 g/m ³ 4 Hour(s); Skin-Rabbit LD50 • 14100 µL/kg;

Toluene (50ppb TO 499ppb)	108-88-3	Irritation: Eye-Rabbit • 100 mg 30 Second(s)-Rinse • Mild irritation; Skin-Rabbit • 435 mg • Mild irritation; Reproductive: Inhalation-Rat TCLo • 1500 ppm (7-20D preg); <i>Reproductive Effects:Specific Developmental Abnormalities:Central nervous system</i> ; <i>Reproductive Effects:Effects on Newborn:Growth statistics (e.g., reduced weight gain)</i> ; <i>Reproductive Effects:Effects on Newborn:Biochemical and metabolic</i>
m-Xylene (50ppb TO 499ppb)	108-38-3	Acute Toxicity: Ingestion/Oral-Rat LD50 • 4988 mg/kg; Skin-Rabbit LD50 • 14100 µL/kg; Irritation: Eye-Rabbit • 5 mg 24 Hour(s) • Severe irritation; Skin-Rabbit • 10 µg 24 Hour(s)-Open • Severe irritation; Reproductive: Inhalation-Rat TCLo • 3000 mg/m³ 24 Hour(s)(7-14D preg); <i>Reproductive Effects:Effects on Fertility:Pre-implantation mortality</i> ; <i>Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus)</i> ; <i>Reproductive Effects:Specific Developmental Abnormalities:Musculoskeletal system</i>
o-Xylene (50ppb TO 499ppb)	95-47-6	Acute Toxicity: Ingestion/Oral-Rat LD50 • 3567 mg/kg; Reproductive: Inhalation-Rat TCLo • 1500 mg/m³ 24 Hour(s)(7-14D preg); <i>Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus)</i>
p-Xylene (50ppb TO 499ppb)	106-42-3	Acute Toxicity: Ingestion/Oral-Rat LD50 • 3910 mg/kg; Inhalation-Rat LC50 • 4550 ppm 4 Hour(s); <i>Lungs, Thorax, or Respiration:Chronic pulmonary edema</i> ; <i>Liver:Other changes</i> ; <i>Blood:Changes in cell count (unspecified)</i>
Diethyl Ether (50ppb TO 499ppb)	60-29-7	Acute Toxicity: Ingestion/Oral-Rat LD50 • 1215 mg/kg; Skin-Rabbit LD50 • >20 mL/kg; Irritation: Eye-Human • 100 ppm; Skin-Guinea Pig • 50 mg 24 Hour(s) • Severe irritation

GHS Properties	Classification
Acute toxicity	EU/CLP • Acute Toxicity - Oral - Classification criteria not met OSHA HCS 2012 • Acute Toxicity - Oral - Classification criteria not met
Aspiration Hazard	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Germ Cell Mutagenicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
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 • Data lacking OSHA HCS 2012 • Data lacking
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

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

Eye

Acute (Immediate) | Under normal conditions of use, no health effects are expected.

Chronic (Delayed) | Under normal conditions of use, no health effects are expected.

Ingestion

Acute (Immediate) | Ingestion is not anticipated to be a likely route of exposure to this product.

Chronic (Delayed) | Ingestion is not anticipated to be a likely route of exposure to this product.

Carcinogenic Effects

| Material level data is not available however this gas mixture contains ingredients which may cause carcinogenic effects upon prolonged and repeated exposure. The carcinogenic components are below thresholds that result in classification of the material as a carcinogen.

Carcinogenic Effects				
	CAS	OSHA	IARC	NTP
Ethanol	64-17-5	Not Listed	Group 1-Carcinogenic	Not Listed
Benzene	71-43-2	Specifically Regulated Carcinogen	Group 1-Carcinogenic	Known Human Carcinogen
Ethylbenzene	100-41-4	Not Listed	Group 2B-Possible Carcinogen	Not Listed

Key to abbreviations

LC = Lethal Concentration

LD = Lethal Dose

TC = Toxic Concentration

TD = Toxic Dose

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

| No studies have been found.

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
Cyclohexane	110-82-7	Yes	Yes	Yes
Diethyl Ether	60-29-7	Yes	Yes	Yes
Ethanol	64-17-5	Yes	Yes	Yes
Ethylbenzene	100-41-4	Yes	Yes	Yes
Methanol	67-56-1	Yes	Yes	Yes
Methyl ether	115-10-6	Yes	Yes	Yes
m-Xylene	108-38-3	Yes	Yes	Yes
Nitrogen	7727-37-9	Yes	Yes	Yes

o-Xylene	95-47-6	Yes	Yes	Yes
p-Xylene	106-42-3	Yes	Yes	Yes
Toluene	108-88-3	Yes	Yes	Yes

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Benzene	71-43-2	Yes	No	Yes	Yes	No
Cyclohexane	110-82-7	Yes	No	Yes	Yes	No
Diethyl Ether	60-29-7	Yes	No	Yes	Yes	No
Ethanol	64-17-5	Yes	No	Yes	Yes	No
Ethylbenzene	100-41-4	Yes	No	Yes	Yes	No
Methanol	67-56-1	Yes	No	Yes	Yes	No
Methyl ether	115-10-6	Yes	No	Yes	Yes	No
m-Xylene	108-38-3	Yes	No	Yes	Yes	No
Nitrogen	7727-37-9	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
Toluene	108-88-3	Yes	No	Yes	Yes	No

Inventory (Con't.)		
Component	CAS	TSCA
Benzene	71-43-2	Yes
Cyclohexane	110-82-7	Yes
Diethyl Ether	60-29-7	Yes
Ethanol	64-17-5	Yes
Ethylbenzene	100-41-4	Yes
Methanol	67-56-1	Yes
Methyl ether	115-10-6	Yes
m-Xylene	108-38-3	Yes
Nitrogen	7727-37-9	Yes
o-Xylene	95-47-6	Yes
p-Xylene	106-42-3	Yes
Toluene	108-88-3	Yes

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
• Diethyl Ether	60-29-7	B2
• Cyclohexane	110-82-7	B2, D2B
• Ethylbenzene	100-41-4	B2, D2A, D2B
• Methanol	67-56-1	B2, D1B, D2A, D2B (including 28%)
• Toluene	108-88-3	B2, D2A, D2B
• Benzene	71-43-2	B2, D2A, D2B

• Ethanol	64-17-5	B2, D2B
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	A

Canada - WHMIS - Ingredient Disclosure List

• o-Xylene	95-47-6	1 %
• p-Xylene	106-42-3	0.1 %
• m-Xylene	108-38-3	1 %
• Diethyl Ether	60-29-7	1 %
• Cyclohexane	110-82-7	1 %
• Ethylbenzene	100-41-4	0.1 %
• Methanol	67-56-1	1 %
• Toluene	108-88-3	1 %
• Benzene	71-43-2	0.1 %
• Ethanol	64-17-5	0.1 %
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	Not Listed

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
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Methanol	67-56-1	Not Listed
• Toluene	108-88-3	Priority Substance List 1 (substance not considered toxic)
• Benzene	71-43-2	Priority Substance List 1 (substance considered toxic)
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	Not Listed

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
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Methanol	67-56-1	Not Listed
• Toluene	108-88-3	Not Listed
• Benzene	71-43-2	Not Listed
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	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
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Methanol	67-56-1	Not Listed
• Toluene	108-88-3	Not Listed
• Benzene	71-43-2	Not Listed
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	Not Listed

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
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Methanol	67-56-1	Not Listed
• Toluene	108-88-3	Not Listed
• Benzene	71-43-2	Not Listed
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	Not Listed

Other**China - Annex I & II - Controlled Chemicals Lists**

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Methanol	67-56-1	Not Listed
• Toluene	108-88-3	Not Listed
• Benzene	71-43-2	Not Listed
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	Not Listed

China - Dangerous Goods List

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Diethyl Ether	60-29-7	
• Cyclohexane	110-82-7	
• Ethylbenzene	100-41-4	
• Methanol	67-56-1	
• Toluene	108-88-3	
• Benzene	71-43-2	
• Ethanol	64-17-5	
• Methyl ether	115-10-6	

• Nitrogen	7727-37-9	(compressed or refrigerated liquid)
China - Export Control List - Part I Chemicals		
• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Methanol	67-56-1	Not Listed
• Toluene	108-88-3	Not Listed
• Benzene	71-43-2	Not Listed
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	Not Listed

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
• Diethyl Ether	60-29-7	F+; R12 R19 Xn; R22 R66 R67
• Cyclohexane	110-82-7	F; R11 Xi; R38 N; R50-53 Xn; R65 R67
• Ethylbenzene	100-41-4	F; R11 Xn; R20
• Methanol	67-56-1	F; R11 T; R23/24/25-39/23/24/25
• Toluene	108-88-3	F; R11 Xi; R38 Xn; R48/20-65 Repr.Cat.3; R63 R67
• Benzene	71-43-2	F; R11 Xi; R36/38 Carc.Cat.1; R45 Muta.Cat.2; R46 T; R48/23/24/25 Xn; R65
• Ethanol	64-17-5	F; R11
• Methyl ether	115-10-6	F+; R12
• Nitrogen	7727-37-9	Not Listed

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

• o-Xylene	95-47-6	12.5%≤C: Xn; R:20/21
• p-Xylene	106-42-3	12.5%≤C: Xn; R:20/21
• m-Xylene	108-38-3	12.5%≤C: Xn; R:20/21
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Methanol	67-56-1	20%≤C: T; R:23/24/25 3% ≤C<20%: Xn; R:20/21/22 10% ≤C: T; R:39/23/24/25 3% ≤C<10%: Xn; R:68/20/21/22
• Toluene	108-88-3	Not Listed
• Benzene	71-43-2	Not Listed
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	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
• Diethyl Ether	60-29-7	F+ Xn R:12-19-22-66-67 S:(2)-9-16-29-33
• Cyclohexane	110-82-7	F Xn N R:11-38-65-67-50/53 S:(2)-9-16-25-33-60-61-62
• Ethylbenzene	100-41-4	F Xn R:11-20 S:(2)-16-24/25-29
• Methanol	67-56-1	F T R:11-23/24/25-39/23/24/25 S:(1/2)-7-16-36/37-45
• Toluene	108-88-3	F Xn R:11-38-48/20-63-65-67 S:(2)-36/37-46-62
• Benzene	71-43-2	F T R:45-46-11-36/38-48/23/24/25-65 S:53-45
• Ethanol	64-17-5	F R:11 S:(2)-7-16
• Methyl ether	115-10-6	F+ R:12 S:(2)-9-16-33
• Nitrogen	7727-37-9	Not Listed

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
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Methanol	67-56-1	Not Listed
• Toluene	108-88-3	Not Listed
• Benzene	71-43-2	E
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	Not Listed

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
• Diethyl Ether	60-29-7	S:(2)-9-16-29-33
• Cyclohexane	110-82-7	S:(2)-9-16-25-33-60-61-62
• Ethylbenzene	100-41-4	S:(2)-16-24/25-29
• Methanol	67-56-1	S:(1/2)-7-16-36/37-45
• Toluene	108-88-3	S:(2)-36/37-46-62
• Benzene	71-43-2	S:53-45
• Ethanol	64-17-5	S:(2)-7-16
• Methyl ether	115-10-6	S:(2)-9-16-33
• Nitrogen	7727-37-9	Not Listed

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
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Methanol	67-56-1	Not Listed
• Toluene	108-88-3	Not Listed
• Benzene	71-43-2	carcinogenic Substance: 5.2.7.1.1, Class III
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	Not Listed

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
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Methanol	67-56-1	Not Listed
• Toluene	108-88-3	Not Listed
• Benzene	71-43-2	Not Listed
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	ID Number 1351, not considered hazardous to water

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
• Diethyl Ether	60-29-7	ID Number 80, hazard class 1 - low hazard to waters
• Cyclohexane	110-82-7	ID Number 63, hazard class 2 - hazard to waters
• Ethylbenzene	100-41-4	ID Number 99, hazard class 1 - low hazard to waters
• Methanol	67-56-1	ID Number 145, hazard class 1 - low hazard to waters
• Toluene	108-88-3	ID Number 194, hazard class 2 - hazard to waters
• Benzene	71-43-2	ID Number 29, hazard class 3 - severe hazard to waters
• Ethanol	64-17-5	ID Number 96, hazard class 1 - low hazard to waters (footnote 10)
• Methyl ether	115-10-6	ID Number 714, hazard class 1 - low hazard to waters
• Nitrogen	7727-37-9	Not Listed

Germany - Water Classification (VwVwS) - Annex 3

• 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
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Methanol	67-56-1	Not Listed
• Toluene	108-88-3	Not Listed
• Benzene	71-43-2	Not Listed
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	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
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Methanol	67-56-1	Not Listed
• Toluene	108-88-3	Not Listed
• Benzene	71-43-2	Not Listed
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	Not Listed

Portugal**Other****Portugal - Prohibited Substances**

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Methanol	67-56-1	Not Listed
• Toluene	108-88-3	Not Listed
• Benzene	71-43-2	Not Listed
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	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
• Diethyl Ether	60-29-7	10 kg
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	100 kg

• Methanol	67-56-1	100 kg
• Toluene	108-88-3	Not Listed
• Benzene	71-43-2	1000 kg
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	Not Listed

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
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Methanol	67-56-1	Not Listed
• Toluene	108-88-3	Not Listed
• Benzene	71-43-2	Not Listed
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	Not Listed

United Kingdom - List of 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
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Methanol	67-56-1	Not Listed
• Toluene	108-88-3	Not Listed
• Benzene	71-43-2	Not Listed
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	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
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Methanol	67-56-1	Not Listed
• Toluene	108-88-3	Not Listed
• Benzene	71-43-2	Not Listed
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	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
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Methanol	67-56-1	Not Listed
• Toluene	108-88-3	Not Listed
• Benzene	71-43-2	5 ppm STEL (See 29 CFR 1910.1028, 15 min); 0.5 ppm Action Level; 1 ppm TWA
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	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	
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	(listed under Ethyl benzene)
• Methanol	67-56-1	
• Toluene	108-88-3	
• Benzene	71-43-2	(including Benzene from gasoline)
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	Not Listed

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
• Diethyl Ether	60-29-7	100 lb final RQ; 45.4 kg final RQ
• Cyclohexane	110-82-7	1000 lb final RQ; 454 kg final RQ
• Ethylbenzene	100-41-4	1000 lb final RQ; 454 kg final RQ
• Methanol	67-56-1	5000 lb final RQ; 2270 kg final RQ
• Toluene	108-88-3	1000 lb final RQ; 454 kg final RQ
• 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)

• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Methanol	67-56-1	Not Listed
• Toluene	108-88-3	Not Listed
• Benzene	71-43-2	Not Listed
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	Not Listed

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
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Methanol	67-56-1	Not Listed
• Toluene	108-88-3	Not Listed
• Benzene	71-43-2	Not Listed
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	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
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Methanol	67-56-1	Not Listed
• Toluene	108-88-3	Not Listed
• Benzene	71-43-2	Not Listed
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	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
• Diethyl Ether	60-29-7	Not Listed

• Cyclohexane	110-82-7	1.0 % de minimis concentration
• Ethylbenzene	100-41-4	0.1 % de minimis concentration
• Methanol	67-56-1	1.0 % de minimis concentration
• Toluene	108-88-3	1.0 % de minimis concentration
• Benzene	71-43-2	0.1 % de minimis concentration
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Methanol	67-56-1	Not Listed
• Toluene	108-88-3	Not Listed
• Benzene	71-43-2	Not Listed
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	Not Listed

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
• Diethyl Ether	60-29-7	Included in waste stream: F039
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	Included in waste stream: F039
• Methanol	67-56-1	Included in waste stream: F039
• Toluene	108-88-3	Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151
• 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
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	Not Listed

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

• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	
• Methanol	67-56-1	Not Listed
• Toluene	108-88-3	
• Benzene	71-43-2	
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	Not Listed

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

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Methanol	67-56-1	Not Listed
• Toluene	108-88-3	Not Listed
• Benzene	71-43-2	0.5 mg/L regulatory level
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	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
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Methanol	67-56-1	Not Listed
• Toluene	108-88-3	waste number U220
• Benzene	71-43-2	waste number U019
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	Not Listed

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	
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	
• Methanol	67-56-1	Not Listed
• Toluene	108-88-3	
• Benzene	71-43-2	
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	Not Listed

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
• Diethyl Ether	60-29-7	0.12 mg/L (wastewater); 160 mg/kg (nonwastewater)
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	0.057 mg/L (wastewater); 10 mg/kg (nonwastewater)
• Methanol	67-56-1	5.6 mg/L (wastewater); 0.75 mg/L TCLP (nonwastewater)
• Toluene	108-88-3	0.080 mg/L (wastewater); 10 mg/kg (nonwastewater)
• Benzene	71-43-2	0.14 mg/L (wastewater); 10 mg/kg (nonwastewater)
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	Not Listed

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
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	
• Methanol	67-56-1	Not Listed
• Toluene	108-88-3	
• Benzene	71-43-2	
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	Not Listed

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
• Diethyl Ether	60-29-7	waste number U117 (Ignitable waste)
• Cyclohexane	110-82-7	waste number U056 (Ignitable waste)
• Ethylbenzene	100-41-4	Not Listed
• Methanol	67-56-1	waste number U154 (Ignitable waste)
• Toluene	108-88-3	waste number U220
• Benzene	71-43-2	waste number U019 (Ignitable waste, Toxic waste)
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	Not Listed

United States - California**Environment****U.S. - California - Proposition 65 - Carcinogens 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
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	carcinogen, initial date 6/11/04
• Methanol	67-56-1	Not Listed
• Toluene	108-88-3	Not Listed
• Benzene	71-43-2	carcinogen, initial date 2/27/87
• Ethanol	64-17-5	carcinogen, initial date 4/29/11 (in alcoholic beverages)
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	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
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Methanol	67-56-1	developmental toxicity, initial date 3/16/12
• Toluene	108-88-3	developmental toxicity, initial date 1/1/91
• Benzene	71-43-2	developmental toxicity, initial date 12/26/97
• Ethanol	64-17-5	developmental toxicity, initial date 10/1/87 (in alcoholic beverages)
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	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
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Methanol	67-56-1	Not Listed
• Toluene	108-88-3	7000 µg/day MADL (level represents absorbed dose)
• Benzene	71-43-2	24 µg/day MADL (oral); 49 µg/day MADL (inhalation)
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	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
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed

• Ethylbenzene	100-41-4	54 µg/day NSRL (inhalation); 41 µg/day NSRL (oral)
• Methanol	67-56-1	Not Listed
• Toluene	108-88-3	Not Listed
• Benzene	71-43-2	6.4 µg/day NSRL (oral); 13 µg/day NSRL (inhalation)
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	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
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Methanol	67-56-1	Not Listed
• Toluene	108-88-3	female reproductive toxicity, initial date 8/7/09
• Benzene	71-43-2	Not Listed
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	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
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Methanol	67-56-1	Not Listed
• Toluene	108-88-3	Not Listed
• Benzene	71-43-2	male reproductive toxicity, initial date 12/26/97
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	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	
• Diethyl Ether	60-29-7	
• Cyclohexane	110-82-7	
• Ethylbenzene	100-41-4	
• Methanol	67-56-1	
• Toluene	108-88-3	
• Benzene	71-43-2	
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed

• Nitrogen	7727-37-9	Not Listed
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U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

• o-Xylene	95-47-6	Not Listed
• p-Xylene	106-42-3	Not Listed
• m-Xylene	108-38-3	Not Listed
• Diethyl Ether	60-29-7	Not Listed
• Cyclohexane	110-82-7	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Methanol	67-56-1	Not Listed
• Toluene	108-88-3	Not Listed
• Benzene	71-43-2	
• Ethanol	64-17-5	Not Listed
• Methyl ether	115-10-6	Not Listed
• Nitrogen	7727-37-9	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

15.3 Other Information

- WARNING: This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

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
- H311 - Toxic in contact with skin
- H312 - Harmful in contact with skin
- H315 - Causes skin irritation
- H319 - Causes serious eye irritation
- H331 - Toxic if inhaled
- H332 - Harmful if inhaled
- H336 - May cause drowsiness or dizziness
- H340 - May cause genetic defects.
- H350 - May cause cancer.
- H361d - Suspected of damaging the unborn child.
- H370 - Causes damage to organs.
- 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
- EUH019 - May form explosive peroxides.
- EUH066 - Repeated exposure may cause skin dryness or cracking.
- R10 - Flammable.
- R11 - Highly flammable.
- R12 - Extremely flammable.
- R19 - May form explosive peroxides.
- R20 - Harmful by inhalation.
- R20/21 - Harmful by inhalation and in contact with skin.
- R22 - Harmful if swallowed.
- R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.

R36/38 - Irritating to eyes and skin.
 R38 - Irritating to skin.
 R39/23/24/25 - Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
 R45 - May cause cancer.
 R46 - May cause heritable genetic damage.
 R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation.
 R48/23/24/25 - 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.
 R53 - May cause long-term adverse effects in the aquatic environment.
 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.

Last Revision Date

| 22/December/2014

Preparation Date

| 22/December/2014

Disclaimer/Statement of Liability

| To the best of Air Liquide'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 gas mixture 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.

Key to abbreviations

NDA = No Data Available
