

# Safety Data Sheet



1% n-Pentane, 1% iso-Pentane, 1% Benzene, 1% Cyclohexane, 1% n-Heptane, 1% Toluene, 1% Octane, 1% m-Xylene, 1% n-Nonane, 1% n-Decane in Hexane

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SDS reference: AL725

**Danger**



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

### 1.1. Product identifier

SDS no : AL725

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

Relevant identified uses : Industrial and professional. Perform risk assessment prior to use.  
Test gas/Calibration gas.  
Laboratory use.  
Contact supplier for more information on uses.

Uses advised against : Consumer use.

### 1.3. Details of the supplier of the safety data sheet

Company identification : Air Liquide Australia Limited  
Level 9 / 380 St. Kilda Road  
3004 Melbourne VIC Australia  
+61 3 9697 9888  
ALAEquiries@AirLiquide.com

### 1.4. Emergency telephone number

Emergency telephone number : 1800 812 588

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to WHS Regulation

Physical hazards	Flammable gases, Category 1	H220
	Gases under pressure : Liquefied gas	H280
Health hazards	Skin corrosion/irritation, Category 2	H315
	Germ cell mutagenicity, Category 1B	H340
	Carcinogenicity, Category 1A	H350
	Reproductive toxicity, Category 2	H361
	Specific target organ toxicity — Single exposure, Category 3, Narcosis	H336
	Specific target organ toxicity — Repeated exposure, Category 2	H373
Environmental hazards	Hazardous to the aquatic environment — Chronic Hazard, Category 2	H411

### 2.2. Label elements

#### Classification according to WHS Regulation



1% n-Pentane, 1% iso-Pentane, 1% Benzene, 1% Cyclohexane, 1% n-Heptane, 1% Toluene, 1% Octane, 1% m-Xylene, 1% n-Nonane, 1% n-Decane in Hexane

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Hazard pictograms



Signal word

: Danger

Hazard statements

: H220 - Extremely flammable gas.  
H280 - Contains gas under pressure; may explode if heated.  
H315 - Causes skin irritation.  
H336 - May cause drowsiness or dizziness.  
H340 - May cause genetic defects.  
H350 - May cause cancer.  
H361 - Suspected of damaging fertility or the unborn child.  
H373 - May cause damage to organs through prolonged or repeated exposure.  
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements

- Prevention : P202 - Do not handle until all safety precautions have been read and understood.  
P260 - Do not breathe gas, vapours.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
- Response : P308+P313 - IF exposed or concerned: Get medical advice/attention.  
P304+P340+P315 - IF INHALED : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical advice / attention.

### 2.3. Other hazards

: None.

## SECTION 3: Composition/information on ingredients

3.1. Substance : Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification according to WHS Regulation
n-hexane	(CAS No) 110-54-3 (EC no) 203-777-6 (EC index no) 601-037-00-0	Balance	Flam. Liq. 2, H225 Repr. 2, H361f Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411
pentane	(CAS No) 109-66-0 (EC no) 203-692-4 (EC index no) 601-006-00-1	1 - 25	Flam. Liq. 2, H225 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411
Isopentane	(CAS No) 78-78-4 (EC no) 201-142-8 (EC index no) 601-006-00-1	1 - 25	Flam. Liq. 1, H224 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411
m-xylene	(CAS No) 108-38-3 (EC no) 203-576-3 (EC index no) 601-022-00-9	0.2 - 12.5	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315
benzene	(CAS No) 71-43-2	1 - 5	Flam. Liq. 2, H225



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	(EC no) 200-753-7 (EC index no) 601-020-00-8		Carc. 1A, H350 Muta. 1B, H340 STOT RE 1, H372 Asp. Tox. 1, H304 Eye Irrit. 2, H319 Skin Irrit. 2, H315
cyclohexane	(CAS No) 110-82-7 (EC no) 203-806-2 (EC index no) 601-017-00-1	0.2 - 5	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
heptane, n-heptane	(CAS No) 142-82-5 (EC no) 205-563-8 (EC index no) 601-008-00-2	0.2 - 5	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
toluene	(CAS No) 108-88-3 (EC no) 203-625-9 (EC index no) 601-021-00-3	1 - 5	Flam. Liq. 2, H225 Repr. 2, H361d Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336
octane, n-octane	(CAS No) 111-65-9 (EC no) 203-892-1 (EC index no) 601-009-00-8	0.2 - 5	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Nonane	(CAS No) 111-84-2 (EC no) 203-913-4 (EC index no)	0.9 - 1.1	Flam. Liq. 3, H226
n-Decane	(CAS No) 124-18-5 (EC no) 204-686-4 (EC index no)	0.9 - 1.1	Flam. Liq. 2, H225

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- Inhalation : Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.
- Skin contact : Remove contaminated clothing. Drench affected area with water for at least 15 minutes.
- Eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes.
- Ingestion : Ingestion is not considered a potential route of exposure.

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

- : In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation.
- In low concentrations may cause narcotic effects. Symptoms may include dizziness, headache, nausea and loss of co-ordination.
- May cause irritation to skin.
- Refer to section 11.

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

- : Obtain medical assistance.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Water spray or fog.



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

### **5.2. Special hazards arising from the substance or mixture**

Specific hazards : Exposure to fire may cause containers to rupture/explode.  
Hazardous combustion products : Incomplete combustion may form carbon monoxide.

### **5.3. Advice for fire-fighters**

Specific methods : Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas receptacles to rupture. Cool endangered receptacles with water spray jet from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems.  
If possible, stop flow of product.  
Use water spray or fog to knock down fire fumes if possible.  
Do not extinguish a leaking gas flame unless absolutely necessary. Spontaneous/explosive re-ignition may occur. Extinguish any other fire.  
Move containers away from the fire area if this can be done without risk.

Special protective equipment for fire fighters : In confined space use self-contained breathing apparatus.  
Wear gas tight chemically protective clothing in combination with self contained breathing apparatus.  
EN 943-2: Protective clothing against liquid and gaseous chemicals, aerosols and solid particles. Gas-tight chemical protective suits for emergency teams.  
Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.

Hazchemcode : 2YE

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

: Try to stop release.  
Evacuate area.  
Monitor concentration of released product.  
Consider the risk of potentially explosive atmospheres.  
Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.  
Eliminate ignition sources.  
Use chemically protective clothing.  
Ensure adequate air ventilation.  
Act in accordance with local emergency plan.  
Stay upwind.

### **6.2. Environmental precautions**

: Try to stop release.  
Reduce vapour with fog or fine water spray.

### **6.3. Methods and material for containment and cleaning up**

: Hose down area with water.  
Ventilate area.  
Wash contaminated equipment or sites of leaks with copious quantities of water.

### **6.4. Reference to other sections**

: See also sections 8 and 13.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**



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**Safe use of the product**

- : The substance must be handled in accordance with good industrial hygiene and safety procedures.  
Only experienced and properly instructed persons should handle gases under pressure.  
Consider pressure relief device(s) in gas installations.  
Ensure the complete gas system was (or is regularly) checked for leaks before use.  
Do not smoke while handling product.  
Avoid exposure, obtain special instructions before use.  
Protect eyes, face and skin from liquid splashes.  
Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.  
Assess the risk of potentially explosive atmospheres and the need for explosion-proof equipment.  
Purge air from system before introducing gas.  
Take precautionary measures against static discharge.  
Keep away from ignition sources (including static discharges).  
Consider the use of only non-sparking tools.  
Do not breathe gas.  
Avoid release of product into atmosphere.

**Safe handling of the gas receptacle**

- : Refer to supplier's container handling instructions.  
Do not allow backfeed into the container.  
Protect cylinders from physical damage; do not drag, roll, slide or drop.  
When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders.  
Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use.  
If user experiences any difficulty operating cylinder valve discontinue use and contact supplier.  
Never attempt to repair or modify container valves or safety relief devices.  
Damaged valves should be reported immediately to the supplier.  
Keep container valve outlets clean and free from contaminants particularly oil and water.  
Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment.  
Close container valve after each use and when empty, even if still connected to equipment.  
Never attempt to transfer gases from one cylinder/container to another.  
Never use direct flame or electrical heating devices to raise the pressure of a container.  
Do not remove or deface labels provided by the supplier for the identification of the cylinder contents.  
Containers should be stored in the vertical position and properly secured to prevent them from falling over.

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

- : Observe all regulations and local requirements regarding storage of containers.  
Containers should not be stored in conditions likely to encourage corrosion.  
Container valve guards or caps should be in place.  
Containers should be stored in the vertical position and properly secured to prevent them from falling over.  
Stored containers should be periodically checked for general condition and leakage.  
Keep container below 50°C in a well ventilated place.  
Store containers in location free from fire risk and away from sources of heat and ignition.  
Keep away from combustible materials.  
Segregate from oxidant gases and other oxidants in store.  
All electrical equipment in the storage areas should be compatible with the risk of a potentially explosive atmosphere.

**7.3. Specific end use(s)**

- : None.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**



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<b>pentane (109-66-0)</b>		
OEL : Occupational Exposure Limits		
Australia	TWA (mg/m <sup>3</sup> )	1770 mg/m <sup>3</sup>
	TWA (ppm)	600 ppm
	STEL (mg/m <sup>3</sup> )	2210 mg/m <sup>3</sup>
	STEL (ppm)	750 ppm
<b>benzene (71-43-2)</b>		
OEL : Occupational Exposure Limits		
Australia	TWA (mg/m <sup>3</sup> )	3.2 mg/m <sup>3</sup>
	TWA (ppm)	1 ppm
<b>cyclohexane (110-82-7)</b>		
OEL : Occupational Exposure Limits		
Australia	TWA (mg/m <sup>3</sup> )	350 mg/m <sup>3</sup>
	TWA (ppm)	100 ppm
	STEL (mg/m <sup>3</sup> )	1050 mg/m <sup>3</sup>
	STEL (ppm)	300 ppm
<b>heptane, n-heptane (142-82-5)</b>		
OEL : Occupational Exposure Limits		
Australia	TWA (mg/m <sup>3</sup> )	1640 mg/m <sup>3</sup>
	TWA (ppm)	400 ppm
	STEL (mg/m <sup>3</sup> )	2050 mg/m <sup>3</sup>
	STEL (ppm)	500 ppm
<b>toluene (108-88-3)</b>		
OEL : Occupational Exposure Limits		
Australia	TWA (mg/m <sup>3</sup> )	191 mg/m <sup>3</sup>
	TWA (ppm)	50 ppm
	STEL (mg/m <sup>3</sup> )	574 mg/m <sup>3</sup>
	STEL (ppm)	150 ppm
<b>octane, n-octane (111-65-9)</b>		
OEL : Occupational Exposure Limits		
Australia	TWA (mg/m <sup>3</sup> )	1400 mg/m <sup>3</sup>
	TWA (ppm)	300 ppm
	STEL (mg/m <sup>3</sup> )	1750 mg/m <sup>3</sup>
	STEL (ppm)	375 ppm
<b>Nonane (111-84-2)</b>		
OEL : Occupational Exposure Limits		
Australia	TWA (mg/m <sup>3</sup> )	1050 mg/m <sup>3</sup>
	TWA (ppm)	200 ppm
<b>n-hexane (110-54-3)</b>		
OEL : Occupational Exposure Limits		
Australia	TWA (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup>
	TWA (ppm)	20 ppm

DNEL (Derived-No Effect Level) : No data available.

PNEC (Predicted No-Effect Concentration) : No data available.

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

- : Product to be handled in a closed system and under strictly controlled conditions. Provide adequate general and local exhaust ventilation. Preferably use only permanent leak-tight installations (e.g. welded pipes). Systems under pressure should be regularly checked for leakages. Ensure exposure is below occupational exposure limits (where available). Gas detectors should be used when toxic gases may be released. Keep concentrations well below lower explosion limits. Consider work permit system e.g. for maintenance activities.

### 8.2.2. Individual protection measures, e.g. personal protective equipment



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: A risk assessment should be conducted and documented in each work area to assess the risks related to the use of the product and to select the PPE that matches the relevant risk. The following recommendations should be considered:  
PPE compliant to the recommended EN/ISO standards should be selected.

• Eye/face protection

: Wear safety glasses with side shields.  
Wear goggles and a face shield when transfilling or breaking transfer connections.  
Standard EN 166 - Personal eye-protection.

• Skin protection

- Hand protection

: Wear working gloves when handling gas containers.  
Standard EN 388 - Protective gloves against mechanical risk.  
Wear chemically resistant protective gloves.  
Standard EN 374 - Protective gloves against chemicals.  
Consult glove manufacturer's product information on material suitability and material thickness.  
The breakthrough time of the selected gloves must be greater than the intended use period.

- Other

: Consider the use of flame resistant anti-static safety clothing.  
Standard EN ISO 14116 - Limited flame spread materials.  
Standard EN ISO 1149-5 - Protective clothing: Electrostatic properties.  
Keep suitable chemically resistant protective clothing readily available for emergency use.  
Standard EN943-1 - Full protective suits against liquid, solid and gaseous chemicals.  
Wear safety shoes while handling containers.  
Standard EN ISO 20345 - Personal protective equipment - Safety footwear.

• Respiratory protection

: Gas filters may be used if all surrounding conditions e.g. type and concentration of the contaminant(s) and duration of use are known.  
Use gas filters and full face mask, where exposure limits may be exceeded for a short-term period, e.g. connecting or disconnecting containers.  
Consult respiratory device supplier's product information for the selection of the appropriate device.  
Gas filters do not protect against oxygen deficiency.  
Standard EN 14387 - Gas filter(s), combined filter(s) and full face mask - EN 136.  
Keep self contained breathing apparatus readily available for emergency use.  
Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.  
Self contained breathing apparatus is recommended, where unknown exposure may be expected, e.g. during maintenance activities on installation systems.

• Thermal hazards

: Wear cold insulating gloves when transfilling or breaking transfer connections.  
Standard EN 511 - Cold insulating gloves.

**8.2.3. Environmental exposure controls**

: Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Appearance

- Physical state at 20°C / 101.3kPa : Gas.
- Colour : Colourless.

Odour : Odourless.

Odour threshold : Odour threshold is subjective and inadequate to warn of overexposure.

pH value : Not applicable for gas-mixtures.

Molar mass : Not applicable for gas-mixtures.



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Melting point : Not applicable for gas-mixtures.  
Boiling point : Not applicable for gas-mixtures.  
Flash point : Not applicable for gas-mixtures.  
Evaporation rate (ether=1) : Not applicable for gas-mixtures.  
Flammability range : Flammability range not available.  
Vapour pressure [20°C] : No reliable data available.  
Vapour pressure [50°C] : No reliable data available.  
Relative density, gas (air=1) : Lighter or similar to air.  
Solubility in water : No data available  
Partition coefficient n-octanol/water [log Kow] : Not applicable for gas-mixtures.  
Auto-ignition temperature : Not known.  
Viscosity [20°C] : Not applicable.  
Explosive Properties : Not applicable.  
Oxidising Properties : Not applicable.

**9.2. Other information**

Other data : None.

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

: No reactivity hazard other than the effects described in sub-sections below.

**10.2. Chemical stability**

: Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

: Can form explosive mixture with air.  
May react violently with oxidants.

**10.4. Conditions to avoid**

: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

**10.5. Incompatible materials**

: None.

**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** : Classification criteria are not met.  
Toxicological effects not expected from this product if occupational exposure limit values are not exceeded.

**m-xylene (108-38-3)**

LC50 inhalation rat (ppm)	9000 ppm/4h
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**Nonane (111-84-2)**

LC50 inhalation rat (ppm)	6400 ppm/4h
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**Skin corrosion/irritation** : Irritation to skin.





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<b>Serious eye damage/irritation</b>	: No known effects from this product.
<b>Respiratory or skin sensitisation</b>	: No known effects from this product.
<b>Germ cell mutagenicity</b>	: May have mutagenic effect.
<b>Carcinogenicity</b>	: May have carcinogenic effect.
<b>Toxic for reproduction : Fertility</b>	: No known effects from this product.
<b>Toxic for reproduction : unborn child</b>	: No known effects from this product.
<b>STOT-single exposure</b>	: In low concentrations may cause narcotic effects. Symptoms may include dizziness, headache, nausea and loss of co-ordination.
<b>STOT-repeated exposure</b>	: May cause damage to organs through prolonged or repeated exposure
<b>Aspiration hazard</b>	: Not applicable for gases and gas mixtures.

## SECTION 12: Ecological information

### 12.1. Toxicity

Assessment : Toxic to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

Assessment : No data available.

### 12.3. Bioaccumulative potential

Assessment : No data available.

### 12.4. Mobility in soil

Assessment : No data available.

### 12.5. Results of PBT and vPvB assessment

Assessment : Not classified as PBT or vPvB.

### 12.6. Other adverse effects

: May cause pH changes in aqueous ecological systems.

Effect on ozone layer : None.

Effect on the global warming : No known effects from this product.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Contact supplier if guidance is required.  
Avoid discharge to atmosphere.  
Do not discharge into areas where there is a risk of forming an explosive mixture with air.  
Waste gas should be flared through a suitable burner with flash back arrestor.  
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.  
Refer to the EIGA code of practice Doc.30 "Disposal of Gases", downloadable at <http://www.eiga.org> for more guidance on suitable disposal methods.

List of hazardous waste codes (from Commission Decision 2001/118/EC) : 16 05 04: Gases in pressure containers (including halons) containing dangerous substances.

### 13.2. Additional information



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: None.

## SECTION 14: Transport information

### 14.1. UN number

UN-No. : 3161

### 14.2. UN proper shipping name

Transport by road/rail (ADR/RID) : LIQUEFIED GAS, FLAMMABLE, N.O.S. (n-hexane, Nonane)

Transport by air (ICAO-TI / IATA-DGR) : Liquefied gas, flammable, n.o.s. (n-hexane, Nonane)

Transport by sea (IMDG) : LIQUEFIED GAS, FLAMMABLE, N.O.S. (n-hexane, Nonane)

### 14.3. Transport hazard class(es)

#### Labelling



2.1 : Flammable gases  
Environmentally hazardous substances

#### Transport by road/rail (ADG)

Class : 2  
Hazchemcode : 2YE  
Hazard identification number : 23  
Tunnel Restriction : B/D - Tank carriage : Passage forbidden through tunnels of category B, C, D and E. Other carriage : Passage forbidden through tunnels of category D and E

#### Transport by air (ICAO-TI / IATA-DGR)

Class / Div. (Sub. risk(s)) : 2.1

#### Transport by sea (IMDG)

Class / Div. (Sub. risk(s)) : 2.1  
Emergency Schedule (EmS) - Fire : F-D  
Emergency Schedule (EmS) - Spillage : S-U

### 14.4. Packing group

Transport by road/rail (ADR/RID) : Not applicable  
Transport by air (ICAO-TI / IATA-DGR) : Not applicable  
Transport by sea (IMDG) : Not applicable

### 14.5. Environmental hazards

Transport by road/rail (ADR/RID) : Environmentally hazardous substance / mixture.  
Transport by air (ICAO-TI / IATA-DGR) : Environmentally hazardous substance / mixture.  
Transport by sea (IMDG) : Marine pollutant



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#### 14.6. Special precautions for user

##### Packing Instruction(s)

Transport by road/rail (ADR/RID) : P200

Transport by air (ICAO-TI / IATA-DGR)

Passenger and Cargo Aircraft : Forbidden

Cargo Aircraft only : 200

Transport by sea (IMDG) : P200

Special transport precautions : Avoid transport on vehicles where the load space is not separated from the driver's compartment.  
Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.  
Before transporting product containers:  
- Ensure there is adequate ventilation.  
- Ensure that containers are firmly secured.  
- Ensure cylinder valve is closed and not leaking.  
- Ensure valve outlet cap nut or plug (where provided) is correctly fitted.  
- Ensure valve protection device (where provided) is correctly fitted.

HAZCHEMCODE : 2YE

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

: Not applicable.

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### National regulations

Ensure all national/local regulations are observed.

#### 15.2. Chemical safety assessment

: A CSA does not need to be carried out for this product.

### SECTION 16: Other information

Indication of changes : Revised safety data sheet in accordance with commission regulation (EU) No 453/2010.

Training advice : Ensure operators understand the flammability hazard. Users of breathing apparatus must be trained. Receptacle under pressure.

Full text of H-statements

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), 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
Asp. Tox. 1	Aspiration hazard, Category 1



1% n-Pentane, 1% iso-Pentane, 1% Benzene, 1% Cyclohexane, 1% n-Heptane, 1% Toluene, 1% Octane, 1% m-Xylene, 1% n-Nonane, 1% n-Decane in Hexane

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Carc. 1A	Carcinogenicity, Category 1A
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Gas 1	Flammable gases, Category 1
Flam. Liq. 1	Flammable liquids, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Muta. 1B	Germ cell mutagenicity, Category 1B
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
Repr. 2	Reproductive toxicity, Category 2
Repr. 2	Reproductive toxicity, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
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, Narcosis
H220	Extremely flammable gas
H224	Extremely flammable liquid and vapour
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H280	Contains gas under pressure; may explode if heated
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child
H361d	Suspected of damaging the unborn child
H361f	Suspected of damaging fertility
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
R10	Flammable
R11	Highly flammable
R12	Extremely flammable
R20/21	Harmful by inhalation and in contact with skin
R36/38	Irritating to eyes and skin
R38	Irritating to skin
R45	May cause cancer
R46	May cause heritable genetic damage
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
R48/20/21/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed
R48/23/24/25	Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R62	Possible risk of impaired fertility



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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
F	Highly flammable
F+	Extremely flammable
N	Dangerous for the environment
T	Toxic
Xi	Irritant
Xn	Harmful

DISCLAIMER OF LIABILITY

: Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.  
Details given in this document are believed to be correct at the time of going to press.  
Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.

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