

SECTION 1: Product identifier

1.1. GHS Product identifier

Product form : Mixture
Trade name : LIQ-OTCSP1C6H6

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : For use in the Calibration and Test of Gas Detection Instruments.

1.4. Details of manufacturer or importer

CAC Gas & Instrumentation Pty Ltd
Unit 3, 36 Holbeche Road Arndell Park
New South Wales 2148
Australia
T +61 2 8676 6500
cac@cacgas.com.au

1.5. Emergency phone number

Emergency number : +61 2 8676 6500

SECTION 2: Hazard identification

2.1. Classification of the hazardous chemical

Classification according to the model Work Health and Safety Regulations (WHS Regulations)

Flammable liquids, Category 2	H225
Skin corrosion/irritation, Category 2	H315
Germ cell mutagenicity, Category 1B	H340
Carcinogenicity, Category 1A	H350
Specific target organ toxicity — Repeated exposure, Category 1	H372

2.2. GHS Label elements, including precautionary statements

Hazard pictograms (GHS AU) :



Signal word (GHS AU) :

Danger

Contains :

benzene (99.81 %)

Hazard statements (GHS AU) :

H225 - Highly flammable liquid and vapour
H315 - Causes skin irritation
H340 - May cause genetic defects (inhalation, oral)
H350 - May cause cancer (inhalation, oral)
H372 - Causes damage to organs (bone marrow, hearing organs) through prolonged or repeated exposure (inhalation, oral)

Precautionary statements (GHS AU) :

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P240 - Ground and bond container and receiving equipment.

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P241 - Use explosion-proof electrical equipment.
P260 - Do not breathe vapours.
P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective clothing.
P281 - Use personal protective equipment as required.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water for 30 minutes.
P314 - Get medical attention if you feel unwell.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P332+P313 - If skin irritation occurs: Get medical advice.
P370+P378 - In case of fire: Use ABC-powder, carbon dioxide (CO₂), foam to extinguish.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : None.

SECTION 3: Composition and information on ingredients

Name	CAS-No.	%	Classification according to the model Work Health and Safety Regulations (WHS Regulations)
benzene	71-43-2	99.81	Flam. Liq. 2, H225 Carc. 1A, H350 Muta. 1B, H340 STOT RE 1, H372 Asp. Tox. 1, H304 Skin Irrit. 2, H315
2-methylhexane	591-76-4	0.1	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
n-hexane	110-54-3	0.02	Flam. Liq. 2, H225 Repr. 2, H361 Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411
heptane	142-82-5	0.02	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
cyclohexane	110-82-7	0.01	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Ethylcyclopentane	1640-89-7	0.01	Not classified

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Name	CAS-No.	%	Classification according to the model Work Health and Safety Regulations (WHS Regulations)
toluene	108-88-3	0.01	Flam. Liq. 2, H225 Repr. 2, H361 Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336
2,2,4-trimethylpentane	540-84-1	0.01	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
n-octane	111-65-9	0.01	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

SECTION 4: First aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation	: Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Perform cardiopulmonary resuscitation if breathing stopped.
First-aid measures after skin contact	: Remove contaminated clothing. Drench affected area with water for at least 15 minutes.
First-aid measures after eye contact	: Adverse effects not expected from this product.
First-aid measures after ingestion	: Ingestion is not considered a potential route of exposure.

4.2. Symptoms caused by exposure

Most important symptoms and effects, both acute and delayed	: May cause irritation to skin. See section 11.
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4.3. Medical attention and special treatment

Other medical advice or treatment	: Obtain medical assistance.
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SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray or fog.
Unsuitable extinguishing media	: Do not use water jet to extinguish.

5.2. Specific hazards arising from the chemical

General measures	: Try to stop release. Evacuate area. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Ensure adequate air ventilation. Act in accordance with local emergency plan. Stay upwind.
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5.3. Special protective equipment and precautions for fire-fighters

Hazchem Code	: 2YE
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- Special protective equipment for fire fighters : Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. Standard 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.
- 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. Move containers away from the fire area if this can be done without risk.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Try to stop release. Evacuate area. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Ensure adequate air ventilation. Act in accordance with local emergency plan. Stay upwind.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

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

6.3. Methods and materials for containment and cleaning up

- Methods and material for containment and cleaning up : Hose down area with water. Wash contaminated equipment or sites of leaks with copious quantities of water.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Safe handling of the gas receptacle : Refer to supplier's container handling instructions. Do not allow backfeed into the container. Protect containers 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 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 content of the container. Suck back of water into the container must be prevented. Open valve slowly to avoid pressure shock.
- Safe use of the product : The product 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. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Avoid suck back of water, acid and alkalis. Do not breathe gas. Avoid release of product into work area.

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7.2. Conditions for safe storage, including any incompatibilities

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.

SECTION 8: Exposure controls and personal protection

8.1. Control parameters - exposure standards

cyclohexane (110-82-7)	
Australia - Occupational Exposure Limits	
Local name	Cyclohexane
OES TWA [1]	350 mg/m ³
OES TWA [2]	100 ppm
OES STEL	1050 mg/m ³
OES STEL [ppm]	300 ppm
USA - ACGIH - Occupational Exposure Limits	
Local name	Cyclohexane
ACGIH OEL TWA [ppm]	100 ppm
Remark (ACGIH)	TLV® Basis: CNS impair
Regulatory reference	ACGIH 2019
China - Occupational Exposure Limits	
Local name	环己烷 # Cyclohexane
OEL PC-TWA	250 mg/m ³
New Zealand - Occupational Exposure Limits	
Local name	Cyclohexane
WES-TWA (OEL TWA) [1]	350 mg/m ³
WES-TWA (OEL TWA) [2]	100 ppm
WES-STEL (OEL STEL)	1050 mg/m ³
WES-STEL (OEL STEL) [ppm]	300 ppm
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 8th Edition
2-methylhexane (591-76-4)	
USA - ACGIH - Occupational Exposure Limits	
Local name	2-Methylhexane
ACGIH OEL TWA [ppm]	400 ppm
ACGIH OEL STEL [ppm]	500 ppm
Remark (ACGIH)	TLV® Basis: CNS impair; URT irr
Regulatory reference	ACGIH 2019

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toluene (108-88-3)	
Australia - Occupational Exposure Limits	
Local name	Toluene
OES TWA [1]	191 mg/m ³
OES TWA [2]	50 ppm
OES STEL	574 mg/m ³
OES STEL [ppm]	150 ppm
Remark (AU)	Sk - Absorption through the skin may be a significant source of exposure.
USA - ACGIH - Occupational Exposure Limits	
Local name	Toluene
ACGIH OEL TWA [ppm]	20 ppm
Remark (ACGIH)	TLV® Basis: Visual impair; female repro; pregnancy loss. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2019
China - Occupational Exposure Limits	
Local name	甲苯 # Toluene
OEL PC-TWA	50 mg/m ³
OEL PC-STEL	100 mg/m ³
Remark (CN)	皮
New Zealand - Occupational Exposure Limits	
Local name	Toluene (Toluol)
WES-TWA (OEL TWA) [1]	188 mg/m ³
WES-TWA (OEL TWA) [2]	50 ppm
Remark (NZ)	skin (Skin absorption)
Regulatory reference	Worplace Exposure Standards and Biological Exposure Indices, 8th Edition
n-hexane (110-54-3)	
Australia - Occupational Exposure Limits	
Local name	Hexane (n-Hexane)
OES TWA [1]	72 mg/m ³
OES TWA [2]	20 ppm
USA - ACGIH - Occupational Exposure Limits	
Local name	n-Hexane
ACGIH OEL TWA [ppm]	50 ppm
Remark (ACGIH)	TLV® Basis: CNS impair; peripheral neuropathy; eye irr. Notations: Skin; BEI
Regulatory reference	ACGIH 2019
China - Occupational Exposure Limits	
Local name	正己烷 # n-Hexane
OEL PC-TWA	100 mg/m ³
OEL PC-STEL	180 mg/m ³
Remark (CN)	皮

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n-hexane (110-54-3)	
New Zealand - Occupational Exposure Limits	
Local name	Hexane (n-Hexane)
WES-TWA (OEL TWA) [1]	72 mg/m ³
WES-TWA (OEL TWA) [2]	20 ppm
Remark (NZ)	bio (Exposure can also be estimated by biological monitoring)
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 8th Edition
heptane (142-82-5)	
Australia - Occupational Exposure Limits	
Local name	Heptane (n-Heptane)
OES TWA [1]	1640 mg/m ³
OES TWA [2]	400 ppm
OES STEL	2050 mg/m ³
OES STEL [ppm]	500 ppm
USA - ACGIH - Occupational Exposure Limits	
Local name	Heptane, isomers (n-Heptane)
ACGIH OEL TWA [ppm]	400 ppm
ACGIH OEL STEL [ppm]	500 ppm
Remark (ACGIH)	TLV® Basis: CNS impair; URT irr
Regulatory reference	ACGIH 2019
China - Occupational Exposure Limits	
Local name	正庚烷 # n-Heptane
OEL PC-TWA	500 mg/m ³
OEL PC-STEEL	1000 mg/m ³
New Zealand - Occupational Exposure Limits	
Local name	Heptane (n-Heptane)
WES-TWA (OEL TWA) [1]	1640 mg/m ³
WES-TWA (OEL TWA) [2]	400 ppm
WES-STEEL (OEL STEL)	2050 mg/m ³
WES-STEEL (OEL STEL) [ppm]	500 ppm
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 8th Edition
n-octane (111-65-9)	
Australia - Occupational Exposure Limits	
Local name	Octane
OES TWA [1]	1400 mg/m ³
OES TWA [2]	300 ppm
OES STEL	1750 mg/m ³
OES STEL [ppm]	375 ppm
USA - ACGIH - Occupational Exposure Limits	
Local name	Octane, all isomers

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n-octane (111-65-9)	
ACGIH OEL TWA [ppm]	300 ppm
Remark (ACGIH)	TLV® Basis: URT irr
Regulatory reference	ACGIH 2019
China - Occupational Exposure Limits	
Local name	辛烷 # Octane
OEL PC-TWA	500 mg/m ³
New Zealand - Occupational Exposure Limits	
Local name	Octane
WES-TWA (OEL TWA) [1]	1400 mg/m ³
WES-TWA (OEL TWA) [2]	300 ppm
WES-STEL (OEL STEL)	1750 mg/m ³
WES-STEL (OEL STEL) [ppm]	375 ppm
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 8th Edition
benzene (71-43-2)	
Australia - Occupational Exposure Limits	
Local name	Benzene
OES TWA [1]	3.2 mg/m ³
OES TWA [2]	1 ppm
Remark (AU)	Carcinogenicity Category 1A – Known to have carcinogenic potential for humans. The classification of a chemical into this category is based largely on human evidence from studies that have established a causal relationship between human exposure and the development of cancer.
USA - ACGIH - Occupational Exposure Limits	
Local name	Benzene
ACGIH OEL TWA [ppm]	0.5 ppm
ACGIH OEL STEL [ppm]	2.5 ppm
Remark (ACGIH)	TLV® Basis: Leukemia. Notations: Skin; A1 (Confirmed Human Carcinogen); BEI
Regulatory reference	ACGIH 2019
China - Occupational Exposure Limits	
Local name	苯 # Benzene
OEL PC-TWA	6 mg/m ³
OEL PC-STEL	6 mg/m ³
Remark (CN)	皮, G1a (确认人类致癌物 (carcinogenic to humans))
New Zealand - Occupational Exposure Limits	
Local name	Benzene
WES-TWA (OEL TWA) [2]	1 ppm
WES-STEL (OEL STEL) [ppm]	2.5 ppm
Remark (NZ)	skin (Skin absorption), 6.7A (Confirmed carcinogen)
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 8th Edition

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8.2. Biological Monitoring

No additional information available

8.3. Engineering controls

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 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). Consider the use of a work permit system e.g. for maintenance activities.

8.4. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment : 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.

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.

Eye protection : Wear goggles and a face shield when transfilling or breaking transfer connections. Standard EN 166 - Personal eye-protection - specifications. Provide readily accessible eye wash stations and safety showers.

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 with full face mask, where exposure limits may be exceeded for a short-term period, e.g. connecting or disconnecting containers. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask. 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 standard EN136, full face masks . Keep self contained breathing apparatus readily available for emergency use. Self contained breathing apparatus is recommended, where unknown exposure may be expected, e.g. during maintenance activities on installation systems.

Thermal hazard protection : None in addition to the above sections.

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

Other information : 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.

SECTION 9: Physical and chemical properties

Physical state : Liquid

Appearance : No data available

Molecular mass : Not applicable for gas mixtures.

Colour : Colourless.

Odour : Odourless.

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

pH : Not applicable for gases and gas mixtures.

Relative evaporation rate (butylacetate=1) : No data available

Relative evaporation rate (ether=1) : Not applicable for gases and gas mixtures.

Melting point / Freezing point : Melting point: Not applicable for gas mixtures.

Boiling point : Not applicable for gas mixtures.

Flash point : Not applicable for gases and gas mixtures.

Auto-ignition temperature : Non flammable.

Decomposition temperature : Not applicable.

Flammability (solid, gas) : No data available

Vapour pressure : No data available

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Relative density	: Relative vapour density at 20 °C: Not applicable. Relative gas density: Lighter or similar to air.
Density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: Not applicable for gas mixtures.
Viscosity, kinematic	: No reliable data available.
Viscosity, dynamic	: No reliable data available.
Explosive properties	: Not applicable.
Oxidising properties	: Not applicable.
Explosive limits	: Non flammable.
Minimum ignition energy	: No data available
Fat solubility	: No data available
Additional information	: None.

SECTION 10: Stability and reactivity

Reactivity	: No reactivity hazard other than the effects described in sub-sections below.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No additional information available
Conditions to avoid	: Avoid moisture in installation systems.
Incompatible materials	: For additional information on compatibility refer to ISO 11114.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Toxicological effects not expected from this product if occupational exposure limit values are not exceeded.
Skin corrosion/irritation	: Causes skin irritation. pH: Not applicable for gases and gas mixtures.
Serious eye damage/irritation	: No known effects from this product. pH: Not applicable for gases and gas mixtures.
Respiratory or skin sensitisation	: No known effects from this product.
Germ cell mutagenicity	: May cause genetic defects ({{0 message=<state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard> filter=^(_)?EXP_ROUTE_.+}).
Carcinogenicity	: May cause cancer ({{0 message=<state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard> filter=^(_)?EXP_ROUTE_.+}).
Reproductive toxicity	: Not classified
STOT-single exposure	: Classification criteria are not met.

cyclohexane (110-82-7)

STOT-single exposure	May cause drowsiness or dizziness.
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2-methylhexane (591-76-4)

STOT-single exposure	May cause drowsiness or dizziness.
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toluene (108-88-3)

STOT-single exposure	May cause drowsiness or dizziness.
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2,2,4-trimethylpentane (540-84-1)

STOT-single exposure	May cause drowsiness or dizziness.
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n-hexane (110-54-3)

STOT-single exposure	May cause drowsiness or dizziness.
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heptane (142-82-5)

STOT-single exposure	May cause drowsiness or dizziness.
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n-octane (111-65-9)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Causes damage to organs ({{0 message=<or state all organs affected, if known> filter=^(_)?ORGAN_.+}) through prolonged or repeated exposure ({{1 message=<state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard> filter=^(_)?EXP_ROUTE_.+}).
toluene (108-88-3)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
n-hexane (110-54-3)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
benzene (71-43-2)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	:
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Viscosity, kinematic	No reliable data available.

SECTION 12: Ecological information

According to the National Code of Practice for the Preparation of Material Safety Data Sheets, Environmental classification information is not mandatory. Information relevant for GHS classification is available on request

12.1. Ecotoxicity

Ecology - general	: No data available.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

LIQ-OTCSP1C6H6	
Partition coefficient n-octanol/water (Log Kow)	Not applicable for gas mixtures.
Partition coefficient n-octanol/water (Log Pow)	Not applicable for gas mixtures.

12.2. Persistence and degradability

LIQ-OTCSP1C6H6	
Persistence and degradability	No data available.

12.3. Bioaccumulative potential

LIQ-OTCSP1C6H6	
Partition coefficient n-octanol/water (Log Pow)	Not applicable for gas mixtures.
Partition coefficient n-octanol/water (Log Kow)	Not applicable for gas mixtures.
Bioaccumulative potential	No data available.

12.4. Mobility in soil

LIQ-OTCSP1C6H6	
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution. Partition into soil is unlikely.

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12.5. Other adverse effects

Ozone : Not classified
Other adverse effects : May cause pH changes in aqueous ecological systems.
Effect on the ozone layer : None.

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Effect on the ozone layer : None.

Fluorinated greenhouse gases : False

cyclohexane (110-82-7)

Fluorinated greenhouse gases : False

2-methylhexane (591-76-4)

Fluorinated greenhouse gases : False

toluene (108-88-3)

Fluorinated greenhouse gases : False

Ethylcyclopentane (1640-89-7)

Fluorinated greenhouse gases : False

2,2,4-trimethylpentane (540-84-1)

Fluorinated greenhouse gases : False

n-hexane (110-54-3)

Fluorinated greenhouse gases : False

heptane (142-82-5)

Fluorinated greenhouse gases : False

n-octane (111-65-9)

Fluorinated greenhouse gases : False

benzene (71-43-2)

Fluorinated greenhouse gases : False

SECTION 13: Disposal considerations

Waste treatment methods : Contact supplier if guidance is required. Must not be discharged to atmosphere. 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.eu> for more guidance on suitable disposal methods. Return unused product in original container to supplier.

Additional information : External treatment and disposal of waste should comply with applicable local and/or national regulations.

SECTION 14: Transport information

14.1. UN number

UN-No. (ADG) : 3501
UN-No. (IMDG) : 3501
UN-No. (IATA) : 3501

14.2. UN Proper Shipping Name

Proper Shipping Name (ADG) : CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.
Proper Shipping Name (IMDG) : CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.

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Proper Shipping Name (IATA) : Chemical under pressure, flammable, n.o.s.

14.3. Transport hazard class(es)

ADG

Transport hazard class(es) (ADG) : 2.1

Danger labels (ADG) : 2.1

:



IMDG

Transport hazard class(es) (IMDG) : 2.1

Danger labels (IMDG) : 2.1

:



IATA

Transport hazard class(es) (IATA) : 2.1

Danger labels (IATA) : 2.1

:



14.4. Packing group

Packing group (ADG) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

14.5. Environmental hazards

Marine pollutant : No

Dangerous for the environment : No

Other information : No supplementary information available

14.6. Special precautions for user

Specific storage requirement : No data available

Shock sensitivity : No data available

14.7. Additional information

Other information : No supplementary information available

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 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.

Transport by road and rail

UN-No. (ADG) : 3501

Special provision (ADG) : 274, 362

Limited quantities (ADG) : 0

Excepted quantities (ADG) : E0

Packing instructions (ADG) : P206

Special packing provisions (ADG) : PP89

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Portable tank and bulk container instructions (ADG) : T50
Portable tank and bulk container special provisions (ADG) : TP4, TP40

Transport by sea

UN-No. (IMDG) : 3501
Special provisions (IMDG) : 274, 362
Limited quantities (IMDG) : 0
Excepted quantities (IMDG) : E0
Packing instructions (IMDG) : P206
Special packing provisions (IMDG) : PP89
Tank instructions (IMDG) : T50
Tank special provisions (IMDG) : TP4, TP40
EmS-No. (Fire) : F-D - FIRE SCHEDULE Delta - FLAMMABLE GASES
EmS-No. (Spillage) : S-U - SPILLAGE SCHEDULE Uniform - GASES (FLAMMABLE, TOXIC OR CORROSIVE)
Stowage category (IMDG) : D
Properties and observations (IMDG) : Liquids, pastes or powders, pressurized with a propellant which meets the definition of a gas.

Air transport

UN-No. (IATA) : 3501
PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Forbidden
PCA limited quantity max net quantity (IATA) : Forbidden
PCA packing instructions (IATA) : Forbidden
PCA max net quantity (IATA) : Forbidden
CAO packing instructions (IATA) : 218
CAO max net quantity (IATA) : 75kg
Special provisions (IATA) : A1, A187
ERG code (IATA) : 10L

14.8. Hazchem or Emergency Action Code

Hazchem Code : 2YE

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

15.2. International agreements

No additional information available

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SECTION 16: Other information

Abbreviations and acronyms

: ATE - Acute Toxicity Estimate
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
EINECS - European Inventory of Existing Commercial Chemical Substances
CAS# - Chemical Abstract Service number
PPE - Personal Protection Equipment
LC50 - Lethal Concentration to 50 % of a test population
RMM - Risk Management Measures
PBT - Persistent, Bioaccumulative and Toxic
vPvB - Very Persistent and Very Bioaccumulative
STOT- SE : Specific Target Organ Toxicity - Single Exposure
CSA - Chemical Safety Assessment
EN - European Standard
UN - United Nations
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
IATA - International Air Transport Association
IMDG code - International Maritime Dangerous Goods
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
WGK - Water Hazard Class
STOT - RE : Specific Target Organ Toxicity - Repeated Exposure

: 08/08/2026

: Classification using data from databases maintained by the European Industrial Gases Association (EIGA). Data is maintained in EIGA doc 169 : 'Classification and Labelling Guide', downloadable at : <http://www.eiga.eu>. Classification in accordance with the procedures and calculation methods of Regulation (EC) 1272/2008 (CLP).

Revision date

Other information

Classification	
Flam. Liq. 2	H225
Skin Irrit. 2	H315
Muta. 1B	H340
Carc. 1A	H350
STOT RE 1	H372

Full text of H-statements	
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
Carc. 1A	Carcinogenicity, Category 1A
Flam. Liq. 2	Flammable liquids, Category 2
Muta. 1B	Germ cell mutagenicity, Category 1B
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
H225	Highly flammable liquid and vapour

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Full text of H-statements	
H304	May be fatal if swallowed and enters airways
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
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

Safety Data Sheet (SDS), Australia

Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.

Details given in the document are believed to be correct at the time of SDS generation.

Whilst proper care has been taken by competent individuals in the preparation of this document, no liability for injury or damage to property resulting from its use can be accepted.