

Safety Data Sheet

according to the Model Work Health and Safety Regulations
Date of issue:21/12/2016 Revision date:21/12/2016

SECTION 1: Identification: Product identifier and chemical identity

1.1. Product identifier

Product form : Mixture
Product name : 338
Product code : 338

1.2. Recommended uses and restrictions

Relevant identified uses : Test gas/Calibration gas. Laboratory use

1.3. Supplier information

CAC GAS & Instrumentation Pty Ltd Unit 3 36 Holbeche Rd 2148 Arndell Park - AUSTRALIA T +61 2 8676 6500

<u>cac@cacgas.com.au</u> - <u>http://www.cacgas.com.au/</u> Emergency telephone number: 0400959760

SECTION 2: Hazards identification

2.1. Classification of the hazardous chemical

Classification (GHS-AU)

 Press. Gas (Comp.)
 H280

 Repr. 1A
 H360

 STOT RE 2
 H373

2.2. Label elements

Hazard pictograms (GHS-AU)





Hazard pictograms (GHS-AU) : GHS04, GHS08

Signal word (GHS-AU) : Danger

Contains : Carbon monoxide

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

H360 - May damage fertility or the unborn child

H373 - May cause damage to organs through prolonged or repeated exposure

Version: 1.0

Precautionary statements (GHS-AU) : P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P260 - Do not breathe dust/fume/gas/mist/vapours/spray P281 - Use personal protective equipment as required

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

P314 - Get medical advice/attention if you feel unwell

P405 - Store locked up

P410+P403 - Protect from sunlight. Store in a well-ventilated place

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation

2.3. Other hazards

Other hazards not contributing to the

classification

: None.

SECTION 3: Composition/information on ingredients

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Name	CAS No	Compound type	%	Classificati on according to the United Nations GHS (Rev. 4, 2011)
Nitrogen	7727-37-9		65.45	Press. Gas (Comp.), H280
Oxygen	7782-44-7		1 - 21	Ox. Gas 1, H270 Press. Gas (Comp.), H280
Carbon dioxide	124-38-9		0.0001 - 10	Press. Gas (Liq.), H280
Methane	74-82-8		0.0001 - 2.5	Flam. Gas 1, H220 Press. Gas (Comp.), H280
Carbon monoxide	630-08-0		0.0001 - 1	Flam. Gas 1, H220 Press. Gas (Comp.), H280 Repr. 1A, H360 Acute Tox. 3 (Inhalation:ga s), H331 STOT RE 1, H372
Hydrogen sulphide	7783-06-4		0.0001 - 0.05	Flam. Gas 1, H220 Press. Gas (Liq.), H280 Acute Tox. 2 (Inhalation:ga s), H330 Aquatic Acute 1, H400

SECTION 4: First aid measures

Description of 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. Apply artificial respiration if breathing stopped.

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

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

Symptoms caused by exposure

Most important symptoms and effects, both : Refer to section 11. acute and delayed

Indication of any immediate medical attention and special treatment needed

Other medical advice or treatment : None.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media : Water spray or fog.

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

Special hazards arising from the substance or mixture 5.2.

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.

Hazardous combustion products : Sulphur dioxide. Carbon monoxide.

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5.3. Special protective equipment and precautions for fire-fighters

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

Try to stop release.

6.3. Methods and material for containment and cleaning up

Methods and material for containment and cleaning up

: Ventilate area.

SECTION 7: Handling and storage, including how the chemical may be safely used

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 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. 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 regularily) 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. Use only oxygen approved lubricants and oxygen approved sealings. Avoid suck back of water, acid and alkalis. Do not breathe gas. Avoid release of product into atmosphere.

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/personal protection

8.1. Control parameters - exposure standards

Carbon monoxide (630-08-0)			
Australia	Local name	Carbon monoxide	
04/40/0040	EN (E!:-!-)		0/40

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Carbon monoxide (630-08-0)		
Australia	TWA (mg/m³)	34 mg/m³
Australia	TWA (ppm)	30 ppm

Exposure limit values for the other components

No additional information available

Monitoring

No additional information available

Appropriate 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 regularily 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.

Personal protective equipment

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.

Eye protection

Wear safety glasses with side shields. Standard EN 166 - Personal eye-protection specifications

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. 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 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

Wear safety shoes while handling containers. Standard EN ISO 20345 - Personal protective equipment - Safety footwear.

9.1. SECTION 9: Physical and chemical properties

Physical state

: Gas

Appearance

: Not applicable for gas mixtures.

Molecular mass Colour

Mixture contains one or more component(s) which have the following colour(s):

Colourless

Odour

Mixture contains one or more component(s) which have the following odour(s):

Rotten eggs.

Odour threshold

Odour threshold is subjective and inadequate to warn of overexposure.

: 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 : Not applicable for gas mixtures.

Melting point / Freezing point

: Not applicable for gas mixtures.

Boiling point Flash point

: Not applicable for gases and gas mixtures.

Auto-ignition temperature Decomposition temperature

Non flammable. : Not applicable.

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Flammability (solid, gas) : No data available

Vapour pressure : Vapour pressure : Not applicable.

Vapour pressure at 50 °C : Not applicable.

Relative density : Relative vapour density at 20 $^{\circ}\text{C}$: Not applicable.

Relative gas density: Lighter or similar to air.

Density : No data available Solubility : No data available

Log Pow : Not applicable for gas mixtures.

Viscosity : Viscosity, kinematic : Not applicable.

Viscosity, dynamic : Not applicable.

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.

10.1. SECTION 10: Stability and reactivity

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

other than the effects described in sub-sections below.

Chemical stability : Stable under normal conditions.

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.

11.1. SECTION 11: Toxicological information

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

LC50 inhalation rat (ppm) 356 ppm/4h

Carbon monoxide (630-08-0)

LC50 inhalation rat (ppm) 1880 ppm/4h

Skin corrosion/irritation : Not classified

pH: Not applicable for gases and gas mixtures.

Serious eye damage/irritation : Not classified

pH: Not applicable for gases and gas mixtures.

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Reproductive toxicity : May damage fertility or the unborn child.

STOT-single exposure : Not classified

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

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Viscosity, dynamic	Not applicable.
Viscosity, kinematic	Not applicable.

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 : Classification criteria are not met.

Acute aquatic toxicity : Not classified

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Observing to the Model Work Fleatur and Galety Regulation	
Chronic aquatic toxicity	: Not classified
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Log Kow	Not applicable for gas mixtures.
Log Pow	Not applicable for gas mixtures.
Hydrogen sulphide (7783-06-4)	
Log Pow	Not applicable for inorganic gases.
Carbon monoxide (630-08-0)	
Log Pow	1.78
Carbon dioxide (124-38-9)	
Log Pow	0.83
Methane (74-82-8)	
Log Pow	1.09
Oxygen (7782-44-7) Log Pow	Not applicable for inorganic gases.
	Not applicable for inorganic gases.
Nitrogen (7727-37-9)	
Log Pow	Not applicable for inorganic gases.
12.2. Persistence and degradability	
338	
Persistence and degradability	No data available.
<u> </u>	TVO GALA AVAIIADIO.
Hydrogen sulphide (7783-06-4)	Net applicable for incomes according
Persistence and degradability	Not applicable for inorganic gases.
Carbon monoxide (630-08-0)	
Persistence and degradability	Will not undergo hydrolysis. Not readily biodegradable. Not applicable for inorganic gases.
Carbon dioxide (124-38-9)	
Persistence and degradability	No ecological damage caused by this product.
Methane (74-82-8)	
Persistence and degradability	The substance is biodegradable. Unlikely to persist.
Oxygen (7782-44-7)	
Persistence and degradability	No ecological damage caused by this product.
Nitrogen (7727-37-9)	
Persistence and degradability	No ecological damage caused by this product.
	The coological damage caused by this product.
12.3. Bioaccumulative potential	
338	
Log Pow	See section 12.1 on ecotoxicology
Log Kow	See section 12.1 on ecotoxicology
Bioaccumulative potential	No data available.
Hydrogen sulphide (7783-06-4)	
Log Pow	See section 12.1 on ecotoxicology
Bioaccumulative potential	No data available.
Carbon monoxide (630-08-0)	
Log Pow	See section 12.1 on ecotoxicology
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
Carbon dioxide (124-38-9)	
Log Pow	See section 12.1 on ecotoxicology
Bioaccumulative potential	No ecological damage caused by this product.
Methane (74-82-8)	
Log Pow	See section 12.1 on ecotoxicology
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
Oxygen (7782-44-7)	
Log Pow	See section 12.1 on ecotoxicology
Bioaccumulative potential	No ecological damage caused by this product.
Nitrogen (7727-37-9)	
Log Pow	See section 12.1 on ecotoxicology
Bioaccumulative potential	No ecological damage caused by this product.
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Methane (74-82-8)

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12.4. Mobility in soil		
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Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution. Partition into soil is unlikely.	
Hydrogen sulphide (7783-06-4)		
Log Pow	See section 12.1 on ecotoxicology	
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.	
Carbon monoxide (630-08-0)		
Log Pow	See section 12.1 on ecotoxicology	
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.	
Carbon dioxide (124-38-9)		
Log Pow	See section 12.1 on ecotoxicology	
Ecology - soil	No ecological damage caused by this product.	
Methane (74-82-8)		
Log Pow	See section 12.1 on ecotoxicology	
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.	
Oxygen (7782-44-7)		
Log Pow	See section 12.1 on ecotoxicology	
Ecology - soil	No ecological damage caused by this product.	
Nitrogen (7727-37-9)		
Log Pow	See section 12.1 on ecotoxicology	
Ecology - soil	No ecological damage caused by this product.	
**	The booksground during broaden.	
	: Not classified	
Ozone		
Other adverse effects	: No known effects from this product.	
Effect on the ozone layer	: None.	
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Effect on the ozone layer	None.	
Fluorinated greenhouse gases	False	
GWPmix comment	Contains greenhouse gas(es).	
Hydrogen sulphide (7783-06-4)		
Effect on the ozone layer	None.	
Effect on global warming	No known effects from this product.	
Fluorinated greenhouse gases	False	
Carbon monoxide (630-08-0)		
Effect on the ozone layer	None.	
Fluorinated greenhouse gases	False	
GWP 20 years	28	
GWP 100 years	1.9	
GWP 500 years	0.3	
GWP Comment	Estimates are subject to large uncertainties	
Control districts (404 00 0)		
Carbon dioxide (124-38-9)	News	
Effect on the ozone layer	None.	
Effect on global warming	When discharged in large quantities may contribute to the greenhouse effect.	
	False	
Fluorinated greenhouse gases GWP 20 years	1	
GWP 20 years GWP 100 years	1 1	

	Effect on the ozone layer	None.
	Effect on global warming	When discharged in large quantities may contribute to the greenhouse effect.
	Fluorinated greenhouse gases	False
	GWP 20 years	62

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Methane (74-82-8)		
GWP 100 years	25	
GWP 500 years	7	
Radiative efficiency	0.00037	

Oxygen (7782-44-7)	
Effect on the ozone layer	None.
Effect on global warming	No known effects from this product.
Fluorinated greenhouse gases	False

Nitrogen (7727-37-9)	
Effect on the ozone layer	None.
Effect on global warming	None.
Fluorinated greenhouse gases	False

SECTION 13: Disposal considerations

Waste treatment methods

: Contact supplier if guidance is required. Do not discharge into any place where its accumulation could be dangerous. 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.org for more guidance on suitable disposal methods. Return unused product in original cylinder 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) : 1956 UN-No. (IMDG) : 1956 UN-No. (IATA) : 1956

14.2. Proper Shipping Name - Addition

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

Transport by air (ICAO-TI / IATA-DGR) : Compressed gas, n.o.s.

Transport by sea (IMDG) : COMPRESSED GAS, N.O.S.

14.3. Transport hazard class(es)

ADG

Transport hazard class(es) (ADG) : 2.2
Danger labels (ADG) : 2.2

:



IMDG

Transport hazard class(es) (IMDG) : 2.2
Danger labels (IMDG) : 2.2



IATA

Transport hazard class(es) (IATA) : 2.2 Hazard labels (IATA) : 2.2

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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

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 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.

Transport by road and rail

UN-No. (ADG) : 1956
Special provision (ADG) : 274, 292
Limited quantities (ADG) : 120ml
Packing instructions (ADG) : P200

Transport by sea

UN-No. (IMDG) : 1956
Special provisions (IMDG) : 274
Limited quantities (IMDG) : 120 ml
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P200

EmS-No. (Fire) : F-C - FIRE SCHEDULE Charlie - NON-FLAMMABLE GASES

EmS-No. (Spillage) : S-V - SPILLAGE SCHEDULE Victor - GASES (NON-FLAMMABLE, NON-TOXIC)

Stowage category (IMDG) : A

Air transport

UN-No. (IATA) : 1956 PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Forbidden PCA limited quantity max net quantity (IATA) : Forbidden PCA packing instructions (IATA) : 200 PCA max net quantity (IATA) : 75kg CAO packing instructions (IATA) : 200 CAO max net quantity (IATA) : 150kg ERG code (IATA) : 2L

14.8. Hazchem or Emergency Action Code

Hazchemcode : 2TE

SECTION 15: Regulatory information

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

No additional information available

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15.2. International agreements

No additional information available

SECTION 16: Any other relevant 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

Revision date : 21/12/2016

Other information : Classification using data from databases maintained by the European Industrial Gases

Association (EIGA). Classification in accordance with calculation methods of regulation (EC)

1272/2008 CLP.

Classification:

	Press. Gas (Comp.)	H280
	Repr. 1A	H360
	STOT RE 2	H373

Full text of H-statements:

Tull text of 11 statements.	
Acute Tox. 2 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 2
Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Flam. Gas 1	Flammable gases, Category 1
Ox. Gas 1	Oxidising Gases, Category 1
Press. Gas (Comp.)	Gases under pressure : Compressed gas
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
Repr. 1A	Reproductive toxicity, Category 1A
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H220	Extremely flammable gas
H270	May cause or intensify fire; oxidizer
H280	Contains gas under pressure; may explode if heated
H330	Fatal if inhaled
H331	Toxic if inhaled
H360	May damage 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

SDS_AU_STG

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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