

According to Regulation (EC) No 1907/2006 as amended by 2020/878 requirements

## Propane Gas Cylinder 400g

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

#### 1.1. Product identifier

**Trade name**

Propane Gas Cylinder 400g

**Article No.**

35535

**REACH registration number**

01-2119486944-21-0063

**Index No.**

601-003-00-5

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

**Relevant identified uses**

Soldering and brazing.

**Not suitable for use in**

None known.

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

**Supplier**

ROTHENBERGER (UK) LIMITED

Address

2 KINGSTONE PARK  
HENSON WAY, KETTERING

NN16 8PX NORTHANTS

United Kingdom

Telephone

01536 310 300

Email

sales@rothenberger.co.uk

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### **Other company**

ROTHENBERGER Werkzeuge GmbH

Address

Industriestraße 7

D-65779 Kelkheim

Germany

Telephone

+49 (0) 61 95 / 800 - 0

Email

info@rothenberger.com

Fax

+49 (0) 6195 / 800 - 3500

### **1.4. Emergency telephone number**

111

### **Available outside office hours**

Yes

### **Other**

#### **Sup.Prod.no.**

WC002

## SECTION 2: Hazards identification

### **2.1. Classification of the substance or mixture**

*Classification according to Regulation (EC) No 1272/2008*

#### **Classification**

Flammable gases, hazard category 1

Gases under pressure, Liquefied gas

#### **Hazard statements**

H220, H280

#### **Description**

The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

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### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

#### **Hazard pictograms**



#### **Signal word**

Danger

#### **Hazard statements**

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

#### **Precautionary statements**

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

P381 Eliminate all ignition sources if safe to do so.

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

### 2.3. Other hazards

May displace oxygen and cause rapid suffocation.

Contact with liquefied gas may cause frostbite.

This substance does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII.

The substance is not included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties.

The substance is not considered to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrases M factor acute M factor chronic	Specific concentration limits ATE	Note
propane	74-98-6 200-827-9 - 601-003-00-5	87.5 - 100%	Flam. Gas 1A, Press. Gas	H220, H280 - -		U
Propylene	115-07-1 204-062-1 - 601-011-00-9	0 - 10%	-	- - -		-
Ethane	74-84-0 200-814-8 - -	0 - 7%	-	- - -		-
butane	106-97-8 203-448-7 - 601-004-01-8	0 - 2.5%	-	- - -		-
ethanethiol; ethyl mercaptan	75-08-1 200-837-3 - 016-022-00-9	0 - 0.005%	Flam. Liq. 1, Acute Tox. 3 - inhalation, Aquatic Acute 1, Aquatic Chronic 1, Acute Tox. 4 - inhalation	H224, H302, H331, H400, H410 - -	ATE [Inhalation – Vapour]: 7.1 mg/l	-

#### **Substance additional information**

Note U (Table 3.1): When put on the market gases have to be classified as "Gases under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

Gas concentrations are in percent by volume.

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First aid personnel must be aware of own risk during rescue. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**Inhalation**

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory tract irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

**Skin contact**

Not likely, due to the form of the product. If frostbite occurs, immerse affected area in warm water (not exceeding 105°F/41°C). Keep immersed for 20 to 40 minutes. Get medical attention immediately.

**Eye contact**

Not likely, due to the form of the product. If frostbite occurs, immediately flush eyes with plenty of warm water (not exceeding 105°F/41°C) for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention promptly if symptoms persist or occur after washing.

**Ingestion**

This material is a gas under normal atmospheric conditions and ingestion is unlikely.

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

Exposure to rapidly expanding gas or vapourizing liquid may cause frostbite ("cold burn"). Very high exposure can cause suffocation from lack of oxygen. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Asphyxiation may bring about unconsciousness without warning and so rapidly that victim may be unable to protect himself.

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

Exposure may aggravate pre-existing respiratory disorders. Provide general supportive measures and treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media**

Dry chemical powder. Carbon dioxide (CO2). Water fog. Foam.

**Unsuitable extinguishing media**

Do not use water jet as an extinguisher, as this will spread the fire.

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

General fire hazards: Extremely flammable gas. Contents under pressure. Pressurised container may explode when exposed to heat or flame.

Extremely flammable gas. May form explosive mixtures with air. Gas may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

### 5.3. Advice for firefighters

#### **Special protective equipment for fire-fighters**

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

#### **Other**

#### **Measures in case of fire**

Do not extinguish fires unless gas flow can be stopped safely; explosive re-ignition may occur.

Promptly isolate the scene by removing all persons from the vicinity of the incident. No action shall be taken involving any personal risk or without suitable training. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus. Stop flow of material. Use water to keep fire exposed containers cool and to protect personnel effecting shutoff. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect personnel attempting to stop leak. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply.

Use standard firefighting procedures and consider the hazards of other involved materials. Cool containers exposed to flames with water until well after the fire is out.

## SECTION 6: Accidental release measures

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

For non-emergency personnel:

Evacuate the area promptly. Keep unnecessary personnel away. Wear appropriate personal protective equipment.

For emergency responders:

No action shall be taken involving any personal risk or without suitable training. In the event of a leak evacuate all personnel until ventilation can restore oxygen concentrations to safe levels. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Wear appropriate protective equipment and clothing during clean-up.

### 6.2. Environmental precautions

Should not be released into the environment. Prevent further leakage or spillage if safe to do so.

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

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Stop leak if you can do so without risk. If possible, turn leaking containers so that gas escapes rather than liquid. Isolate area until gas has dispersed.

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### 6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### ***Preventive handling precautions***

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not smoke. All equipment used when handling the product must be grounded. Do not breathe gas. Avoid prolonged exposure. Do not enter storage areas or confined spaces unless adequately ventilated. Use only outdoors or in a well-ventilated area. Oxygen concentration should not fall below 19.5 % at sea level (pO<sub>2</sub> = 135 mmHg). Mechanical ventilation or local exhaust ventilation may be required. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

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

Do not store, incinerate, or heat this material above 120 degrees Fahrenheit. Keep away from heat, sparks and open flame. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Cylinders should be stored with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Protect cylinders from damage. Stored containers should be periodically checked for general condition and leakage. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended.

ANNEX 1, PART 1 Categories of dangerous substances Hazard categories in accordance with Regulation (EC) No 1272/2008 - P2 FLAMMABLE GASES (Lower-tier requirements = 10 tonnes; Upper-tier requirements = 50 tonnes).

ANNEX 1, PART 2 Named dangerous substances - 18. Liquefied flammable gases, Category 1 or 2 (including LPG) and natural gas (Lower-tier requirements = 50 tonnes; Upper-tier requirements = 200 tonnes).

### 7.3. Specific end use(s)

Soldering and brazing. Observe industrial sector guidance on best practices.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### ***Exposure limits***

Biological limit values: No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures: Follow standard monitoring procedures.

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### 8.2. Exposure controls

#### **Appropriate engineering controls**

Provide adequate ventilation and minimize the risk of inhalation of gas. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

#### **Eye / face protection**

Wear approved safety glasses or goggles. Face shield is recommended. Eye protection should meet standard EN 166.

#### **Hand protection**

Wear suitable gloves tested to EN374. Wear cold insulating gloves.

#### **Other skin protection**

Wear protective clothing appropriate for the risk of exposure.

#### **Respiratory protection**

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear positive pressure self-contained breathing apparatus (SCBA). WARNING! Air-purifying respirators do not protect workers in oxygen deficient atmospheres.

#### **Thermal hazards**

Contact with liquefied gas might cause frostbites, in some cases with tissue damage. Wear appropriate thermal protective clothing, when necessary.

#### **Environmental exposure controls**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

### Other

Hygiene measures

Do not eat, drink or smoke when using the product. Wash thoroughly after handling. Provide eyewash station and safety shower. Handle in accordance with good industrial hygiene and safety practices.

## SECTION 9: Physical and chemical properties

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

#### **Physical state**

Compressed liquefied gas.

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**Colour**

Colourless

**Odour**

Rotten egg.

**Melting point / freezing point**

-188 °C

**Boiling point or initial boiling point and boiling range**

-42 °C

**Flammability**

Extremely flammable gas.

**Lower and upper explosion limit**

2.15 - 9.6 %

**Flash point**

-104 °C

**Auto-ignition temperature**

432 °C

**Decomposition temperature**

Property has not been measured.

**pH**

Not applicable, material is a gas.

**Kinematic viscosity**

Not applicable, material is a gas.

**Viscosity, dynamic**

0.08 mPa · s

**Solubility**

No data available

**Water solubility**

Slightly soluble in water.

**Partition coefficient n-octanol/water**

1.77

**Vapour pressure**

127 psig (21°C / 70°F)

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### **Density and/or relative density**

No data available

### **Relative density**

1.5 (vapour) (Air=1) (15 °C (59 °F)) 0.504 (liquid)

### **Relative vapour density**

No data available

### **Particle characteristics**

No data available

### **9.2. Other information**

Heat of combustion (NFPA 30B) 44 kJ/g.

Limiting Oxygen Concentration (or LOC) 9.8 %.

Molecular weight 45 g/mol.

Percent volatile 100 %.

Surface tension 16 mN/m (-47 °C (-52.6 °F)).

Viscosity Not applicable, material is a gas.

## SECTION 10: Stability and reactivity

### **10.1. Reactivity**

Reacts violently with strong oxidants, nitrites, inorganic chlorides, chlorites and perchlorates causing fire and explosion hazard.

### **10.2. Chemical stability**

Stable under normal temperature conditions and recommended use.

### **10.3. Possibility of hazardous reactions**

Polymerization will not occur. May form explosive mixture with air. This product may react with oxidizing agents.

### **10.4. Conditions to avoid**

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

### **10.5. Incompatible materials**

Strong oxidising agents. Strong acids. Halogens. Nitrates.

### **10.6. Hazardous decomposition products**

Thermal decomposition of this product can generate carbon monoxide and carbon dioxide. Hydrocarbons.

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### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Occupational exposure to the substance or mixture may cause adverse effects.

**Acute toxicity**

Not expected to be acutely toxic.

Product / Substance name CAS / EC no.	Value / Dose	Exposure route	Duration of exposure	Test animals
Propylene 115-07-1 / 204-062-1	> 65000 ppm	LC50 Gas Inhalation	4 hours	Rat
propane 74-98-6 / 200-827-9	> 80000 ppm	LC50 Gas Inhalation	15 Minutes	Rat

**Skin corrosion/irritation**

Based on available data, the classification criteria are not met.

**Serious eye damage/irritation**

Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation**

Based on available data, the classification criteria are not met.

**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

**Carcinogenicity**

Based on available data, the classification criteria are not met.

Product / Substance name CAS / EC no.	Value / Dose
Propylene 115-07-1 / 204-062-1	3 Not classifiable as to carcinogenicity to humans.

**Reproductive toxicity**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

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**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Symptoms related to the physical, chemical and toxicological characteristics**

Exposure to rapidly expanding gas or vapourizing liquid may cause frostbite ("cold burn"). Very high exposure can cause suffocation from lack of oxygen. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Asphyxiation may bring about unconsciousness without warning and so rapidly that victim may be unable to protect themself.

**Toxicity in case of inhalation**

High concentrations: Suffocation (asphyxiant) hazard - if allowed to accumulate to concentrations that reduce oxygen below safe breathing levels. Breathing of high concentrations may cause dizziness, light-headedness, headache, nausea and loss of co-ordination. Continued inhalation may result in unconsciousness.

**Toxicity in case of skin contact**

Contact with liquefied gas may cause frostbite.

**Toxicity in case of eye contact**

Contact with liquefied gas may cause frostbite.

**Toxicity in case of ingestion**

This material is a gas under normal atmospheric conditions and ingestion is unlikely.

**11.2. Information on other hazards**

**Endocrine disrupting properties**

This substance does not have endocrine disrupting properties with respect to human health, as it does not meet the assessment criteria laid out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605.

Exposure over a long period of time may cause central nervous system effects.

### SECTION 12: Ecological information

**12.1. Toxicity**

**Acute toxicity**

The product is not expected to be hazardous to the environment.

**12.2. Persistence and degradability**

Not relevant, due to the form of the product.

**12.3. Bioaccumulative potential**

Not relevant, due to the form of the product.

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Product / Substance name CAS / EC no.	LogKow / LogPow
Propylene 115-07-1 / 204-062-1	1.77
Ethane 74-84-0 / 200-814-8	1,81
butane 106-97-8 / 203-448-7	2.89

### 12.4. Mobility in soil

#### **Mobility**

Not relevant, due to the form of the product.

### 12.5. Results of PBT and vPvB assessment

This substance does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII.

### 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to the environment, as it does not meet the assessment criteria laid out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605.

### 12.7. Other adverse effects

The product contains volatile organic compounds which have a photochemical ozone creation potential. Substance Global Warming Potential per (Annex IV), Regulation 517/2014/EU on fluorinated greenhouse gases, as amended: Butane (CAS 106-97-8): 4.  
Ethane (CAS 74-84-0): 6.  
Propane (CAS 74-98-6): 3.  
Propylene (CAS 115-07-1): 2.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### **Disposal considerations**

Residual waste: Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste disposal company. The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Use the container until empty. Do not dispose of any non-empty container. Empty containers have residual vapor that is flammable and explosive. Cylinders should be emptied and returned to a hazardous waste collection point. Do not puncture or incinerate even when empty. Dispose in accordance with all applicable regulations.

Special precautions: Dispose of in accordance with local regulations.

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Empty containers should be taken to an approved waste handling site for recycling or disposal.

Waste code	Waste description
16 05 04*	gases in pressure containers (including halons) containing hazardous substances

Please note - an asterisk (\*) next to a code denotes that it is HAZARDOUS WASTE.

## SECTION 14: Transport information

### 14.1. UN number

1075

### 14.2. UN proper shipping name

#### **ADR / RID / ADN proper shipping name**

PETROLEUM GASES, LIQUEFIED

#### **IMDG proper shipping name**

PETROLEUM GASES, LIQUEFIED

#### **IATA proper shipping name**

Petroleum gases, liquefied

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### 14.3. Transport hazard class(es)

**Label**

ADR/RID/ADN



2.1

IMDG



2.1

IATA



2.1

**ADR / RID Class**

2

**ADR / RID Classification code**

2F

**ADR / RID hazard identification number**

23

**IMDG Class**

2.1

**IATA Class**

2.1

**ADN Class**

2

**ADN Class Code**

2F

### 14.4. Packing group

Not applicable

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### 14.5. Environmental hazards

No.

#### **IMDG Marine Pollutant**

No.

### 14.6. Special precautions for user

Tunnel restriction code: B/D

Transport category: 2

Read safety instructions, SDS and emergency procedures before handling.

#### **IMDG EmS**

F-D, S-U

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### **National regulations**

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended. Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

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### SECTION 16: Other information

#### **Abbreviations**

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road  
 ATE - Acute Toxicity Estimate  
 C&L - Classification and Labelling  
 CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  
 CMR - Carcinogen, Mutagen, or Reproductive Toxicant  
 CSR - Chemical Safety Report  
 DMEL - Derived Minimum Effect Level  
 DNEL - Derived No Effect Level  
 EC50 - Half Maximal Effective Concentration  
 ECHA - European Chemicals Agency  
 GHS - Globally Harmonized System  
 IATA - International Air Transport Association  
 IMDG - International Maritime Dangerous Goods  
 Kow - octanol-water partition coefficient  
 LC50 - Lethal Concentration to 50 % of a test population  
 LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)  
 LoW - List of Wastes  
 OEL - Occupational Exposure Limit  
 PBT - Persistent, Bioaccumulative and Toxic substance  
 PEC - Predicted Environmental Concentration  
 PNEC - Predicted No Effect Concentration(s)  
 REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  
 RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
 SCBA - Self-Contained Breathing Apparatus  
 STOT - Specific Target Organ Toxicity  
 SVHC - Substances of Very High Concern  
 UFI - Unique Formula Identifier  
 vPvB - Very Persistent and Very Bioaccumulative

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### **Phrase meaning**

Flam. Gas 1 - Flammable gases, hazard category 1  
 Press. Gas - Liquefied gas - Gases under pressure, Liquefied gas  
 Flam. Liq. 1 - Flammable liquids, hazard category 1  
 Acute Tox. 3 - inhalation - Acute toxicity, inhalation, hazard category 3  
 Aquatic Acute 1 - Hazardous to the aquatic environment — Acute hazard category 1  
 Aquatic Chronic 1 - Hazardous to the aquatic environment — Chronic hazard category 1  
 Acute Tox. 4 - inhalation - Acute toxicity, inhalation, hazard category 4  
 Flam. Gas 1A - Flammable gases, hazard category 1A  
 Press. Gas - Gases under pressure  
 H220 Extremely flammable gas.  
 H224 Extremely flammable liquid and vapour.  
 H280 Contains gas under pressure; may explode if heated.  
 H302 Harmful if swallowed.  
 H331 Toxic if inhaled.  
 H400 Very toxic to aquatic life.  
 H410 Very toxic to aquatic life with long lasting effects.

### **Other**

#### **Additional information**

Follow training instructions when handling this material.

#### **Manufacturer's notes**

All information in this Safety Data Sheet is believed to be accurate and reliable. However, no guarantee or warranty of any kind is made with regard to the accuracy of information or the suitability of the recommendations contained herein. It is the user's responsibility to assess the safety and toxicity of this product under their own conditions of use and to comply with all applicable laws and regulations.