

**Lasal 105****NOAL\_1028**  
**UFI: G8U2-N0FE-500S-**  
**MWU3**

Country : SE / Language : EN

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name : Lasal 105  
SDS no : NOAL\_1028  
UFI: G8U2-N0FE-500S-MWU3

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

Relevant identified uses : Industrial and professional uses. Perform risk assessment prior to 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 GAS AB  
Lundavägen 151  
21209 Malmö - SWEDEN  
T +46 40 38 10 00  
[eunordic-sds@airliquide.com](mailto:eunordic-sds@airliquide.com)

E-Mail address (competent person) : [eunordic-sds@airliquide.com](mailto:eunordic-sds@airliquide.com)

**1.4. Emergency telephone number**

Emergency telephone number : 112  
Availability  
(24 / 7)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Physical hazards	Gases under pressure : Compressed gas	H280
Health hazards	Reproductive toxicity, Category 1A	H360
	Specific target organ toxicity — Repeated exposure, Category 2	H373

**2.2. Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :



GHS04

GHS08

Signal word (CLP) : Danger

Hazard statements (CLP) : H280 - Contains gas under pressure; may explode if heated.  
H373 - May cause damage to organs through prolonged or repeated exposure.  
H360 - May damage fertility or the unborn child.

Precautionary statements (CLP)

- 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.

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- Response : P308+P313 - IF exposed or concerned: Get medical advice/attention.
- Storage : P405 - Store locked up.  
 P403 - Store in a well-ventilated place.

Supplemental information : Restricted to professional users.

### 2.3. Other hazards

: None.

## SECTION 3: Composition/information on ingredients

**3.1. Substances** : Not applicable.

### 3.2. Mixtures

Name	Product identifier	Composition [V-%]:	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Nitrogen	(CAS-No.) 7727-37-9 (EC-No.) 231-783-9 (EC Index-No.) (REACH-no) *1	60	Press. Gas (Comp.), H280
Helium	(CAS-No.) 7440-59-7 (EC-No.) 231-168-5 (EC Index-No.) (REACH-no) *1	28	Press. Gas (Comp.), H280
Carbon dioxide	(CAS-No.) 124-38-9 (EC-No.) 204-696-9 (EC Index-No.) (REACH-no) *1	8	Press. Gas (Liq.), H280
Carbon monoxide	(CAS-No.) 630-08-0 (EC-No.) 211-128-3 (EC Index-No.) 006-001-00-2 (REACH-no) 01-2119480165-39	4	Flam. Gas 1, H220 Press. Gas (Comp.), H280 Acute Tox. 3 (Inhalation:gas), H331 Repr. 1A, H360D STOT RE 1, H372

Full text of H-statements: see section 16

*Contains no other components or impurities which will influence the classification of the product.*

\*1: Listed in Annex IV / V REACH, exempted from registration.

\*3: Registration not required: Substance manufactured or imported &lt; 1t/y.

## 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. Perform cardiopulmonary resuscitation if breathing stopped.
- Skin contact : Adverse effects not expected from this product.
- Eye contact : Adverse effects not expected from this product.
- Ingestion : Ingestion is not considered a potential route of exposure.

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

: Refer to section 11.

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

: None.

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**SECTION 5: Firefighting measures****5.1. Extinguishing media**

- Suitable extinguishing media : Water spray or fog.
- Unsuitable extinguishing media : 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 : Carbon monoxide.

**5.3. Advice for firefighters**

- 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.
- 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.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

- : 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.

**6.2. Environmental precautions**

- : Try to stop release.

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

- : Ventilate area.

**6.4. Reference to other sections**

- : See also sections 8 and 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

- Safe use of the product : Do not breathe gas.  
Avoid release of product into atmosphere.  
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.

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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.

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.

### 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.

### 7.3. Specific end use(s)

: None.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Carbon monoxide (630-08-0)	
<b>EU - Occupational Exposure Limits</b>	
Local name	Carbon monoxide
IOELV TWA (mg/m <sup>3</sup> )	23 mg/m <sup>3</sup>
IOELV TWA (ppm)	20 ppm
IOELV STEL (mg/m <sup>3</sup> )	117 mg/m <sup>3</sup>
IOELV STEL (ppm)	100 ppm
Notes	SCOEL Recommendations (1995)
<b>Sweden - Occupational Exposure Limits</b>	
Local name	Avgaser som kolmonoxid

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nivågränsvärde (NVG) (mg/m <sup>3</sup> )	25 mg/m <sup>3</sup> 25 mg/m <sup>3</sup> Avgaser 40 mg/m <sup>3</sup> Se även Avgaser
nivågränsvärde (NVG) (ppm)	20 ppm 20 ppm Avgaser 35 ppm Se även Avgaser
kortidsvärde (KTV) (mg/m <sup>3</sup> )	120 mg/m <sup>3</sup> Se även Avgaser
kortidsvärde (KTV) (ppm)	100 ppm Se även Avgaser
Anmärkning (SE)	5 (Tabellens särskilda gränsvärden för kvävedioxid och kolmonoxid är avsedda att ta hänsyn till den samlade effekten av de ämnen som förekommer i avgaser inklusive cancerframkallande ämnen. Dessa ämnen används alltså som indikatorsubstanser. Exponeringen ska vara godtagbar med hänsyn till båda värdena. Det är troligt att kolmonoxidvärdet blir dimensionerande vid exponering för avgaser från bensin- och gasolrdrivna motorer, medan kvävedioxidvärdet får motsvarande funktion för dieselavgaser. Däremot ska man inte räkna hygienisk effekt mellan kolmonoxid och kvävedioxid (se föreskrifterna om kemiska arbetsmiljörisker))

<b>Carbon dioxide (124-38-9)</b>	
<b>EU - Occupational Exposure Limits</b>	
Local name	Carbon dioxide
IOELV TWA (mg/m <sup>3</sup> )	9000 mg/m <sup>3</sup>
IOELV TWA (ppm)	5000 ppm
<b>Sweden - Occupational Exposure Limits</b>	
Local name	Koldioxid
nivågränsvärde (NVG) (mg/m <sup>3</sup> )	9000 mg/m <sup>3</sup>
nivågränsvärde (NVG) (ppm)	5000 ppm
kortidsvärde (KTV) (mg/m <sup>3</sup> )	18000 mg/m <sup>3</sup>
kortidsvärde (KTV) (ppm)	10000 ppm
Anmärkning (SE)	V (Vägledande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas); 34 (Koldioxid används ofta som indikatorsubstans i arbetslokaler där luftföroreningar huvudsakligen uppkommer genom de personer som vistas där. Se särskilda regler om ventilation i föreskrifterna om arbetsplatsens utformning)

<b>Carbon monoxide (630-08-0)</b>	
DNEL: Derived no effect level (Workers)	
Acute - local effects, inhalation	100 ppm
Acute - systemic effects, inhalation	100 ppm
Long-term - local effects, inhalation	20 ppm
Long-term - systemic effects, inhalation	20 ppm

PNEC (Predicted No-Effect Concentration) : None established.

### 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 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.

#### 8.2.2. Individual protection measures, e.g. 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.

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- Eye/face protection : Wear safety glasses with side shields.  
Standard EN 166 - Personal eye-protection - specifications.
  
- Skin protection
  - Hand protection : Wear working gloves when handling gas containers.  
Standard EN 388 - Protective gloves against mechanical risk.
  - Other : 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 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 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.  
Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.
  
- Thermal hazards : None in addition to the above sections.

### 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 : Mixture contains one or more component(s) which have the following colour(s):  
Colourless.
- Odour : Odourless.
- Odour threshold : Odour threshold is subjective and inadequate to warn of overexposure.
- pH : Not applicable for gases and gas mixtures.
- Melting point / Freezing point : Not applicable for gas mixtures.
- Boiling point : Not applicable for gas mixtures.
- Flash point : Not applicable for gases and gas mixtures.
- Evaporation rate : Not applicable for gases and gas mixtures.
- Flammability (solid, gas) : Non flammable.
- Explosive limits : Non flammable.
- Vapour pressure [20°C] : Not applicable.
- Vapour pressure [50°C] : Not applicable.
- Vapour density : Not applicable.
- Relative density, gas (air=1) : Lighter or similar to air.
- Water solubility : Solubility in water of component(s) of the mixture :  
• Carbon monoxide: 30 mg/l • Carbon dioxide: 2000 mg/l Completely soluble. • Helium: 1.5 mg/l • Nitrogen: 20 mg/l
- Partition coefficient n-octanol/water (Log Kow) : Not applicable for gas mixtures.

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Auto-ignition temperature : Non flammable.  
Decomposition temperature : Not applicable.  
Viscosity : No reliable data available.  
Explosive properties : Not applicable.  
Oxidising properties : Not applicable.

**9.2. Other information**

Molar mass : Not applicable for gas mixtures.  
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**

: No additional information available

**10.4. Conditions to avoid**

: Avoid moisture in installation systems.

**10.5. Incompatible materials**

: For additional information on compatibility refer to ISO 11114.

**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.

Unlike simple asphyxiants, carbon dioxide has the ability to cause death even when normal oxygen levels (20-21%) are maintained. 5% CO<sub>2</sub> has been found to act synergistically to increase the toxicity of certain other gases (CO, NO<sub>2</sub>). CO<sub>2</sub> has been shown to enhance the production of carboxy- or met-hemoglobin by these gases possibly due to carbon dioxide's stimulatory effects on the respiratory and circulatory systems.

For more information, see 'EIGA Safety Info 24: Carbon Dioxide, Physiological Hazards' at [www.eiga.eu](http://www.eiga.eu).

**Carbon monoxide (630-08-0)**

LC50 Inhalation - Rat [ppm]

3760 ppm/1h  
1300 ppm/4h**Skin corrosion/irritation** : No known effects from this product.**Serious eye damage/irritation** : No known effects from this product.**Respiratory or skin sensitisation** : No known effects from this product.**Germ cell mutagenicity** : No known effects from this product.**Carcinogenicity** : No known effects from this product.

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<b>Reproductive toxicity</b>	:	
Toxic for reproduction : Fertility	:	May damage fertility.
Toxic for reproduction : unborn child	:	May damage the unborn child.
<b>STOT-single exposure</b>	:	No known effects from this product.
<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 : No ecological damage caused by this product.

EC50 48h - Daphnia magna [mg/l] : No data available.

EC50 72h - Algae [mg/l] : No data available.

LC50 96 h - Fish [mg/l] : No data available.

**Carbon monoxide (630-08-0)**

EC50 48h - Daphnia magna [mg/l] : Study scientifically unjustified.

EC50 72h - Algae [mg/l] : Study scientifically unjustified.

LC50 96 h - Fish [mg/l] : Study scientifically unjustified.

**12.2. Persistence and degradability**

Assessment : No data available.

**12.3. Bioaccumulative potential**

Assessment : No data available.

**12.4. Mobility in soil**Assessment : Because of its high volatility, the product is unlikely to cause ground or water pollution.  
Partition into soil is unlikely.**12.5. Results of PBT and vPvB assessment**

Assessment : Not classified as PBT or vPvB.

**12.6. Other adverse effects**

Other adverse effects : No known effects from this product.

Effect on the ozone layer : None.

Effect on global warming : Contains greenhouse gas(es).

**SECTION 13: Disposal considerations****13.1. 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.org> for more guidance on suitable disposal methods.

Return unused product in original container to supplier.

List of hazardous waste codes (from Commission Decision 2000/532/EC as amended) : 16 05 04 \*: Gases in pressure containers (including halons) containing hazardous substances.



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### 13.2. 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. : 1956

### 14.2. UN proper shipping name

**Transport by road/rail (ADR/RID)** : COMPRESSED GAS, N.O.S. (Nitrogen, Carbon monoxide)

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

**Transport by sea (IMDG)** : COMPRESSED GAS, N.O.S. (Nitrogen, Carbon monoxide)

### 14.3. Transport hazard class(es)

Labelling :



2.2 : Non-flammable, non-toxic gases.

### Transport by road/rail (ADR/RID)

Class : 2  
Classification code : 1A  
Hazard identification number : 20  
Tunnel Restriction : E - Passage forbidden through tunnels of category E

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

Class / Div. (Sub. risk(s)) : 2.2

### Transport by sea (IMDG)

Class / Div. (Sub. risk(s)) : 2.2  
Emergency Schedule (EmS) - Fire : F-C  
Emergency Schedule (EmS) - Spillage : S-V

### 14.4. Packing group

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

### 14.5. Environmental hazards

Transport by road/rail (ADR/RID) : None.  
Transport by air (ICAO-TI / IATA-DGR) : None.  
Transport by sea (IMDG) : None.

### 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 : 200.  
Cargo Aircraft only : 200.

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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 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.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

: Not applicable.

**SECTION 15: Regulatory information**

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

**EU-Regulations**

Restrictions on use : Restricted to professional users (Annex XVII REACH).  
Seveso Directive : 2012/18/EU (Seveso III) : Not covered.

**National regulations**

National legislation : 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.

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### 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 - International 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

### Training advice

: None.

### Further information

: 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).

### Full text of H- and EUH-statements

Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3
Flam. Gas 1	Flammable 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
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
H280	Contains gas under pressure; may explode if heated
H331	Toxic if inhaled.
H360	May damage fertility or the unborn child.
H360D	May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.

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**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.