

4 Component mix in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 01206 Issue date: 4/4/2020 Revision date: 1/13/2023 Supersedes version of: 8/25/2022 Version: 3.0





| 1.1. Product identifier | |
|---|---|
| SDS no | : SDS 01206 |
| 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. |
| Uses advised against | : Consumer use. Uses other than those listed above are not supported, contact your supplier for more information on other uses. |
| 1.3. Details of the supp | lier of the safety data sheet |
| Air Liquide UK Ltd. Station Road Coleshill B46 1JY Birmingham United Kingdom safety.aluk@airliquide.cc | <u>əm</u> |
| 1.4. Emergency teleph | one number |
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| SECTION 2: Hazar 2.1. Classification of the Classification accordin | ds identification le substance or mixture g to Regulation (EC) No. 1272/2008 [CLP] |
| SECTION 2: Hazar 2.1. Classification of th Classification accordin Physical hazards 2.2. Label elements | ds identification le substance or mixture g to Regulation (EC) No. 1272/2008 [CLP] |
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4 Component mix in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 01206

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | 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 | 99.4655 | Press. Gas (Comp.), H280 |
| Argon | CAS-No.: 7440-37-1 EC-No.: 231-147-0 EC Index-No.: REACH-no: *1 | 0.5 | Press. Gas (Comp.), H280 |
| Carbon dioxide | CAS-No.: 124-38-9 EC-No.: 204-696-9 EC Index-No.: REACH-no: *1 | 0.03 | Press. Gas (Liq.), H280 |
| Methane | CAS-No.: 74-82-8 EC-No.: 200-812-7 EC Index-No.: 601-001-00-4 REACH-no: 01-2119474442-39 | 0.004 | Flam. Gas 1A, H220 Press. Gas (Comp.), 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 | 0.0005 | Flam. Gas 1B, H221 Press. Gas (Comp.), H280 Acute Tox. 3 (Inhalation:gas), H331 Repr. 1A, H360D STOT RE 1, H372 |

Full text of H- and EUH-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 < 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 |

In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. See section 11.

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

None.



4 Component mix in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 01206

| SECTION 5: Firefighting measures | | |
|--|---|--|
| 5.1. Extinguishing media | | |
| - Suitable extinguishing media | : Water spray or fog. Product does not burn, use fire control measures appropriate for the surrounding fire. | |
| - Unsuitable extinguishing media | : Do not use water jet to extinguish. | |
| 5.2. Special hazards arising from the substan | <u>ce or mixture</u> | |
| Specific hazards | : Exposure to fire may cause containers to rupture/explode. | |
| Hazardous combustion products | : None that are more hazardous than the product itself. | |
| 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 | In confined space use self-contained breathing apparatus. Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask. Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters. | |

| SECTION 6: Accidental release measures |
|--|
|--|

| 6.1. Personal precautions, protective equipment and emergency procedures | | |
|--|--|--|
| For non-emergency personnel | : Act in accordance with local emergency plan. | |
| | Try to stop release. | |
| | Evacuate area. | |
| | Ensure adequate air ventilation. | |
| | Stay upwind. | |
| | See section 8 of the SDS for more information on personal protective equipment. | |
| For emergency responders | : Wear self-contained breathing apparatus when entering area unless atmosphere is proved | |
| | to be safe. | |
| | Oxygen detectors should be used when asphyxiating gases may be released. | |
| | See section 5.3 of the SDS for more information. | |
| 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.



4 Component mix in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 01206

SECTION 7: Handling and storage

| 7.1. F | recautions | s for saf | e 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. |
| | Ensure the complete gas system was (or is regularily) checked for leaks before use. |
| | Do not smoke while handling product. |
| | Use only properly specified equipment which is suitable for this product, its supply pressure |
| | and temperature. Contact your gas supplier if in doubt. |
| Cofe handling of the analysis and the | 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)

United Kingdom - Occupational Exposure Limits

| WEL TWA (OEL TWA) [1] | 35 mg/m ³ Limits applicable to underground mining & tunnelling industries |
|-----------------------|--|
| | ONLY until 21/8/23 |



4 Component mix in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 01206

| WEL TWA (OEL TWA) [2] | 30 ppm Limits applicable to underground mining & tunnelling industries ONLY until 21/8/23 |
|---------------------------|--|
| WEL STEL (OEL STEL) | 232 mg/m ³ Limits applicable to underground mining & tunnelling industries ONLY until 21/8/23 |
| WEL STEL (OEL STEL) [ppm] | 200 ppm Limits applicable to underground mining & tunnelling industries ONLY until 21/8/23 |

| Carbon monoxide (630-08-0) | |
|--|-----------|
| DNEL: Derived no effect level (Workers) | |
| Acute - local effects, inhalation | 117 ppm |
| Acute - systemic effects, inhalation | 117 mg/m³ |
| Long-term - local effects, inhalation | 23 ppm |
| Long-term - systemic effects, inhalation | 23 mg/m³ |

PNEC (Predicted No-Effect Concentration)

: None established.

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Systems under pressure should be regularily checked for leakages. Ensure exposure is below occupational exposure limits (where available). Oxygen detectors should be used when asphyxiating gases may be released. Consider the use of a work permit system e.g. for maintenance activities.

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

| Eye/face protection | 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. : 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, performance level 1 or higher. |
| - 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. |
| | Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask. |
| | Gas filters do not protect against oxygen deficiency. |
| | Self contained breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen-deficient atmospheres. |
| | Standard EN 14387 - Gas filter(s), combined filter(s) and standard EN136, full face masks . |
| Thermal hazards | : None in addition to the above sections. |
| 8.2.3. Environmental exposure controls | |
| | |

None necessary.



Safety Data Sheet

4 Component mix in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 01206

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Appearance | |
|---|---|
| - Physical state at 20°C / 101.3kPa | : Gas. |
| - Colour | : Colourless. |
| Odour | : Odourless. |
| Melting point / Freezing point | : Not applicable for gas mixtures. |
| Boiling point | : Not applicable for gas mixtures. |
| | It is technically not possible to determine the boiling point or range of this mixture. |
| | Component with lowest boiling point: Nitrogen -196 °C |
| Flammability | : Non flammable. |
| Lower explosion limit | : Not available. |
| Upper explosion limit | : Not available. |
| Flash point | : Not applicable for gases and gas mixtures. |
| Auto-ignition temperature | : Non flammable. |
| Decomposition temperature | : Not applicable. |
| рН | : Not applicable for gases and gas mixtures. |
| Viscosity, kinematic | : No reliable data available. |
| Water solubility [20°C] | : Mixture is partially soluble in water |
| Partition coefficient n-octanol/water (Log Kow) | : Not applicable for gas mixtures. |
| Vapour pressure [20°C] | : Not applicable. |
| Vapour pressure [50°C] | : Not applicable. |
| Density and/or relative density | : Not applicable. |
| Relative vapour density (air=1) | : Lighter or similar to air. |
| Particle characteristics | : Not applicable. |
| | |

9.2. Other information

10.1. Reactivity

9.2.1. Information with regard to physical hazard classes

| Explosive properties | Not applicable. |
|-------------------------------------|--|
| Explosion limits | Non flammable. |
| Oxidising properties | Not applicable. |
| 9.2.2. Other safety characteristics | |
| Molar mass | Not applicable for gas mixtures. |
| Evaporation rate | Not applicable for gases and gas mixtures. |
| Other data | None. |

SECTION 10: Stability and reactivity

| | No reactivity hazard other than the effects described in sub-sections below. |
|--|---|
| | Data for mixture are not available. |
| | This mixture contains components with the following reactivity : Can form explosive mixture |
| | with air. May react violently with oxidants. |
| 10.2. Chemical stability | |
| | Stable under normal conditions. |
| 10.3. Possibility of hazardous reactions | |
| | None. |
| 10.4. Conditions to avoid | |
| | Avoid moisture in installation systems. |
| 10.5. Incompatible materials | |
| | For additional information on compatibility refer to ISO 11114. |
| | |
| | |



4 Component mix in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 01206

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 hazard classes as defined in Regulation (EC) No 1272/2008

| Acute toxicity | : Classification criteria are not met. |
|---------------------------------------|--|
| Carbon monoxide (630-08-0) | |
| LC50 Inhalation - Rat [ppm] | 3760 ppm/1h (ADR) 1300 ppm/4h (CLP) |
| 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. |
| Toxic for reproduction : Fertility | : No known effects from this product. |
| Toxic for reproduction : unborn child | : Classification criteria are not met. |
| STOT-single exposure | : No known effects from this product. |
| STOT-repeated exposure | : Classification criteria are not met. |
| Aspiration hazard | : Not applicable for gases and gas mixtures. |
| 11.2. Information on other hazards | |

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

| Assessment | : Classification criteria are not met. |
|---------------------------------|--|
| 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. |
| | |

| Argon (7440-37-1) | |
|---------------------------------|--------------------|
| 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 dioxide (124-38-9) | |
|---------------------------------|--------------------|
| 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] | No data available. |



4 Component mix in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 01206

| Carbon monoxide (630-08-0) | | |
|--|--|--|
| EC50 72h - Algae [mg/l] | No data available. | |
| LC50 96 h - Fish [mg/l] | No data available. | |
| Methane (74-82-8) | | |
| EC50 48h - Daphnia magna [mg/l] | 69.4 mg/l | |
| EC50 72h - Algae [mg/l] | 19.4 mg/l | |
| LC50 96 h - Fish [mg/l] | 147.5 mg/l | |
| Nitrogen (7727-37-9) | | |
| 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. | |
| 12.2. Persistence and degradability | | |
| Assessment | : No ecological damage caused by this product. | |
| 12.3. Bioaccumulative potential | | |
| Assessment | : No data available. | |
| 12.4. Mobility in soil | | |
| Assessment | : No ecological damage caused by this product. | |
| 12.5. Results of PBT and vPvB assessment | | |
| Assessment | : Not classified as PBT or vPvB. | |
| 12.6. Endocrine disrupting properties | | |
| Assessment | : | |
| 12.7. Other adverse effects | | |
| Other adverse effects | : No known effects from this product. | |
| Effect on the ozone layer | : No effect on the ozone layer. | |
| Effect on global warming | : Contains greenhouse gas(es). | |

| SECTION 13: Disposal considerations | |
|---|--|
| 13.1. Waste treatment methods | |
| List of hazardous waste codes (from Commission Decision 2000/532/EC as amended) | May be vented to atmosphere in a well ventilated place. Do not discharge into any place where its accumulation could be dangerous. Return unused product in original container to supplier. 16 05 05 : Gases in pressure containers other than those mentioned in 16 05 04. |
| 13.2. Additional information | External treatment and disposal of waste should comply with applicable local and/or national regulations. |



: 1956

4 Component mix in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 01206

SECTION 14: Transport information

14.1. UN number or ID number

In accordance with ADR / RID / IMDG / IATA / ADN UN-No.

14.2. UN proper shipping name

Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR) Transport by sea (IMDG)

: COMPRESSED GAS, N.O.S. (Nitrogen, Argon) : Compressed gas, n.o.s. (Nitrogen, Argon) : COMPRESSED GAS, N.O.S. (Nitrogen, Argon)

14.3. Transport hazard class(es)

Transport by road/rail (ADR/RID)

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

Hazard identification number

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

Transport by sea (IMDG) Class / Div. (Sub. risk(s))

14.4. Packing group

Transport by sea (IMDG)

Emergency Schedule (EmS) - Fire

Transport by road/rail (ADR/RID)

14.5. Environmental hazards Transport by road/rail (ADR/RID)

Emergency Schedule (EmS) - Spillage

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

Labelling

Class

Classification code

Tunnel Restriction



2.2 : Non-flammable, non-toxic gases.

- : 2
- : 1A
- : 20
- : E Passage forbidden through tunnels of category E
- : 2.2
- · 22
- : F-C
- : S-V
- : Not applicable.
 - Not applicable.
 - Not applicable.
- - : None.
 - None.
- 14.6. Special precautions for user

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

Packing Instruction(s)

Transport by sea (IMDG)

Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR) Passenger and Cargo Aircraft Cargo Aircraft only Transport by sea (IMDG)

Special transport precautions

- · None
- ·
- : P200.
- : 200.
- : 200.
- : P200
- : 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.



4 Component mix in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 01206

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

| SECTION 15: Regulatory information | |
|--|---|
| 15.1. Safety, health and environmental regula | ations/legislation specific for the substance or mixture |
| EU-Regulations | |
| Restrictions on use | : None. Contains no substance on the REACH candidate list. |
| Other information, restriction and prohibition regulations | : Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals. |
| Seveso Directive : 2012/18/EU (Seveso III) | : Not covered. |
| National regulations | |
| Regulatory reference | : 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 | : Safety data sheet in accordance with commission regulation (EU) No 2020/878. |
| 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.

- UFI : Unique Formula Identifier.
- : The hazard of asphyxiation is often overlooked and must be stressed during operator training.

For more guidance, refer to EIGA SL 01 "Dangers of Asphyxiation", downloadable at http://www.eiga.eu..

: 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).

Training advice

Further information



4 Component mix in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 01206

| Full text of H- and EUH-statements | |
|------------------------------------|---|
| Acute Tox. 3 (Inhalation:gas) | Acute toxicity (inhalation:gas) Category 3 |
| Flam. Gas 1A | Flammable gases, Category 1A |
| Flam. Gas 1B | Flammable gases, Category 1B |
| H220 | Extremely flammable gas. |
| H221 | Flammable gas. |
| H280 | Contains gas under pressure; may explode if heated. |
| H331 | Toxic if inhaled. |
| H360D | May damage the unborn child. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| 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 |

DISCLAIMER OF LIABILITY

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

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