

### 2000 ppm NO, 5000 ppm CO in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 00756 Issue date: 12/15/2016 Revision date: 1/12/2023 Supersedes version of: 8/24/2022 Version: 3.0





| 1.1. Product identifier   |  |  |
|---|--|--|
| SDS no  | : SDS  | S 00756  |
| 1.2. Relevant identified u  | ses of the substance or mixture  | e and uses advised against   |
| Relevant identified uses<br>Uses advised against  | : Indu<br>: Con<br>Use:  | ustrial and professional uses. Perform risk assessment prior to use.<br>nsumer use.<br>es other than those listed above are not supported, contact your supplier for more<br>irmation on other uses. |
| 1.3. Details of the supplie   | er of the safety data sheet  |  |
| Air Liquide UK Ltd.<br>Station Road Coleshill<br>B46 1JY Birmingham<br>United Kingdom<br><u>safety.aluk@airliquide.com</u>  |  |  |
| 1.4. Emergency telephon   | e number   |  |
| Emergency telephone num   | ber : 0167   | 375 462695 (Available 24/7)  |
|   |  |  |
|   |  |  |
| SECTION 2: Hazard   | s identification   |  |
| SECTION 2: Hazard   |  |  |
| 2.1. Classification of the  |  | 08 [CLP]   |
| 2.1. Classification of the<br>Classification according  | substance or mixture   |  |
| 2.1. Classification of the<br>Classification according<br>Physical hazards  | substance or mixture<br>to Regulation (EC) No. 1272/200  | essed gas H280   |
| 2.1. Classification of the<br>Classification according<br>Physical hazards<br>Health hazards  | substance or mixture<br>to Regulation (EC) No. 1272/200<br>Gases under pressure : Compre   | essed gas H280   |
| 2.1. Classification of the<br>Classification according<br>Physical hazards<br>Health hazards<br>2.2. Label elements   | substance or mixture<br>to Regulation (EC) No. 1272/200<br>Gases under pressure : Compre   | essed gas H280<br>Fategory 4 H332  |
| 2.1. Classification of the<br>Classification according<br>Physical hazards<br>Health hazards<br>2.2. Label elements   | substance or mixture<br>to Regulation (EC) No. 1272/200<br>Gases under pressure : Compre<br>Acute toxicity (inhalation:gas) Ca<br>egulation (EC) No. 1272/2008 [C<br>:   | H280<br>H332<br>CLPI   |
| 2.1. Classification of the<br>Classification according<br>Physical hazards<br>Health hazards<br>2.2. Label elements<br>Labelling according to Re<br>Hazard pictograms (CLP)   | substance or mixture<br>to Regulation (EC) No. 1272/200<br>Gases under pressure : Compre<br>Acute toxicity (inhalation:gas) Ca<br>egulation (EC) No. 1272/2008 [C  | H280<br>H332<br>CLPJ<br>GHS04 GHS07  |
| 2.1. Classification of the<br>Classification according<br>Physical hazards<br>Health hazards<br>2.2. Label elements<br>Labelling according to Re<br>Hazard pictograms (CLP)   | substance or mixture<br>to Regulation (EC) No. 1272/200<br>Gases under pressure : Compre<br>Acute toxicity (inhalation:gas) Ca<br>egulation (EC) No. 1272/2008 [C<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>: | H280<br>H332<br>CLPJ<br>GHS04<br>GHS04<br>GHS07<br>rning<br>30 - Contains gas under pressure; may explode if heated.   |
| 2.1. Classification of the<br>Classification according<br>Physical hazards<br>Health hazards<br>2.2. Label elements<br>Labelling according to Re<br>Hazard pictograms (CLP)<br>Signal word (CLP)<br>Hazard statements (CLP) | substance or mixture<br>to Regulation (EC) No. 1272/200<br>Gases under pressure : Compre<br>Acute toxicity (inhalation:gas) Ca<br>egulation (EC) No. 1272/2008 [C<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>: | H280<br>H332<br>CLPJ<br>GHS04<br>GHS04<br>GHS07<br>rring   |
| 2.1. Classification of the<br>Classification according<br>Physical hazards<br>Health hazards<br>2.2. Label elements<br>Labelling according to Re<br>Hazard pictograms (CLP)<br>Signal word (CLP)<br>Hazard statements (CLP) | substance or mixture<br>to Regulation (EC) No. 1272/200<br>Gases under pressure : Compre<br>Acute toxicity (inhalation:gas) Ca<br>egulation (EC) No. 1272/2008 [C<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>: | H280<br>H332<br>CLPJ<br>GHS04<br>GHS04<br>GHS07<br>rning<br>30 - Contains gas under pressure; may explode if heated.   |
| 2.1. Classification of the<br>Classification according<br>Physical hazards<br>Health hazards<br>2.2. Label elements<br>Labelling according to Re  | substance or mixture<br>to Regulation (EC) No. 1272/200<br>Gases under pressure : Compre<br>Acute toxicity (inhalation:gas) Ca<br>egulation (EC) No. 1272/2008 [C<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>: | H280<br>H332<br>H332<br>H332<br>CLPJ<br>GHS04<br>GHS04<br>GHS07<br>GHS04<br>GHS07<br>Trining<br>30 - Contains gas under pressure; may explode if heated.<br>32 - Harmful if inhaled.                 |



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### 2.3. Other hazards

None.

Not classified as PBT or vPvB.

### 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<br>EC-No.: 231-783-9<br>EC Index-No.:<br>REACH-no: *1                           | 99.3 | Press. Gas (Comp.), H280  |
| Nitric oxide    | CAS-No.: 10102-43-9<br>EC-No.: 233-271-0<br>EC Index-No.:<br>REACH-no: 01-2120766630-54            | 0.5  | Ox. Gas 1, H270<br>Press. Gas (Comp.), H280<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Acute Tox. 1 (Inhalation:gas), H330 |
| Carbon monoxide | CAS-No.: 630-08-0<br>EC-No.: 211-128-3<br>EC Index-No.: 006-001-00-2<br>REACH-no: 01-2119480165-39 | 0.2  | Flam. Gas 1B, H221<br>Press. Gas (Comp.), H280<br>Acute Tox. 3 (Inhalation:gas), H331<br>Repr. 1A, H360D<br>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

See section 11.

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

Obtain medical assistance.



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| SECTION 5: Firefighting measures               |   |
|--|---|
| 5.1. Extinguishing media                       |   |
| - Suitable extinguishing media                 | : Water spray or fog.<br>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 substand | ce or mixture   |
| 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                               | <ul> <li>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.</li> <li>If possible, stop flow of product.</li> <li>Use water spray or fog to knock down fire fumes if possible.</li> <li>Move containers away from the fire area if this can be done without risk.</li> </ul> |
| Special protective equipment for fire fighters | <ul> <li>Wear gas tight chemically protective clothing in combination with self contained breathing apparatus.</li> <li>Standard EN 943-2: Protective clothing against liquid and gaseous chemicals, aerosols and solid particles. Gas-tight chemical protective suits for emergency teams.</li> <li>Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.</li> </ul>   |

| 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   | <ul> <li>Wear self-contained breathing apparatus when entering area unless atmosphere is proved<br/>to be safe.</li> </ul> |  |
|  | See section 5.3 of the SDS for more information.   |  |
| 6.2. Environmental precautions   |  |  |
|  | Try to stop release.   |  |
| 6.3. Methods and material for containm                                   | ent and cleaning up  |  |

Ventilate area.

### 6.4. Reference to other sections

See also sections 8 and 13.



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### **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.                                      |
|   | 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.                                       |
|   | Avoid suck back of water, acid and alkalis.   |
| Safe handling of the gas receptacle         | : Refer to supplier's container handling instructions.  |
| <u> </u>                                    | 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.  |
|   | Container valve guards of 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.



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### **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 <sup>3</sup> Limits applicable to underground mining & tunnelling industries ONLY until 21/8/23  |  |
| 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 <sup>3</sup> 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               |  |

| Nitric oxide (10102-43-9)                     |  |
|---|--|
| United Kingdom - Occupational Exposure Limits |  |
| WEL TWA (OEL TWA) [1]                         | 30 mg/m <sup>3</sup> Limit applicable to underground mining & tunnelling industries ONLY until 21/8/23 |
| WEL TWA (OEL TWA) [2]                         | 25 ppm Limit 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.<br>Product to be handled in a closed system.<br>Systems under pressure should be regularily checked for leakages.<br>Ensure exposure is below occupational exposure limits (where available).<br>Gas detectors should be used when toxic 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   |
|   | 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:<br>PPE compliant to the recommended EN/ISO standards should be selected.         |
| Eye/face protection                         | : Wear safety glasses with side shields.<br>Standard EN 166 - Personal eye-protection - specifications.   |
| Skin protection                             |   |
| - Hand protection                           | : Wear working gloves when handling gas containers.<br>Standard EN 388 - Protective gloves against mechanical risk, performance level 1 or higher.  |



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| - 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<br>period, e.g. connecting or disconnecting containers.                         |
|  | Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full<br>face mask.  |
|  | Consult respiratory device supplier's product information for the selection of the appropriate device.  |
|  | Gas filters do not protect against oxygen deficiency.   |
|  | Standard EN 14387 - Gas filter(s), combined filter(s) and standard EN136, full face masks .<br>Keep self contained breathing apparatus readily available for emergency use. |
|  | Self contained breathing apparatus is recommended, where unknown exposure may be expected, e.g. during maintenance activities on installation systems.                      |
| Thermal 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 Brownish gas.  |
| Odour   | : Odour threshold is subjective and inadequate to warn of overexposure.                 |
|   | Mixture contains one or more component(s) which have the following odour:               |
|   | Pungent.  |
| 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 gas mixtures.  |
| Auto-ignition temperature                       | : Non flammable.  |
| Decomposition temperature                       | : Not applicable.   |
| рН  | : Not applicable for gas mixtures.  |
| Viscosity, kinematic                            | : Not applicable.   |
| 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

#### 9.2.1. Information with regard to physical hazard classes

| Explosive properties | : | Not applicable. |
|----------------------|---|-----------------|
| Explosion limits     | : | Non flammable.  |
| Oxidising properties | : | Not applicable. |



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| 9.2.2. Other safety characteristics      |   |
|--|---|
| Molar mass                               | : Not applicable for gas mixtures.  |
| Evaporation rate                         | : 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.                |
|  | 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. Violently oxidises organic material.           |
| 10.2. Chemical stability                 |   |
|  | Stable under normal conditions.   |
| 10.3. Possibility of hazardous reactions |   |
|  | None.   |
|  | None.   |
| 10.4. Conditions to avoid                |   |
|  | Avoid moisture in installation systems.   |
| 10.5. Incompatible materials             |   |
| <u></u>                                  | Majahura  |
|  | Moisture.<br>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 hazard classes as defined in Regulation (EC) No 1272/2008 |  |

| Acute toxicity                        | : Harmful if inhaled.                        |  |
|---------------------------------------|--|--|
| Carbon monoxide (630-08-0)            |  |  |
| LC50 Inhalation - Rat [ppm]           | 3760 ppm/1h (ADR)<br>1300 ppm/4h (CLP)       |  |
| Nitric oxide (10102-43-9)             |  |  |
| LC50 Inhalation - Rat [ppm]           | 57.5 ppm/4h                                  |  |
| Skin corrosion/irritation             | Classification criteria are not met.         |  |
| Serious eye damage/irritation         | : Classification criteria are not met.       |  |
| 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   |  |  |



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### **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] | No data available. |
| EC50 72h - Algae [mg/l]         | No data available. |
| LC50 96 h - Fish [mg/l]         | No data available. |

| Nitric oxide (10102-43-9)       |                    |
|---------------------------------|--------------------|
| 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. |

| 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                      |  |
|---------------------------------|--|
| 12.3. Bioaccumulative potential |  |

: No ecological damage caused by this product.

: No ecological damage caused by this product.

### Assessment

#### 12.4. Mobility in soil

Assessment Assessment

### 12.5. Results of PBT and vPvB assessment

Assessment

### 12.6. Endocrine disrupting properties

Assessment

### 12.7. Other adverse effects

Other adverse effects Effect on the ozone layer Effect on global warming : No known effects from this product.

: Not classified as PBT or vPvB.

: No effect on the ozone layer.

: No data available.

: No data available.

: No known effects from this product.



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### **SECTION 13: Disposal considerations**

| 13.1. Waste treatment methods                                    |   |
|--|---|
| ,  | Contact supplier if guidance is required.<br>Must not be discharged to atmosphere.<br>Ensure that the emission levels from local regulations or operating permits are not<br>exceeded.<br>Refer to the EIGA code of practice Doc.30 "Disposal of Gases", downloadable at<br>http://www.eiga.org for more guidance on suitable disposal methods.<br>Return unused product in original container to supplier.<br>16 05 04 *: Gases in pressure containers (including halons) containing hazardous |
| Decision 2000/532/EC as amended)<br>13.2. Additional information | substances.   |
|  | External treatment and disposal of waste should comply with applicable local and/or national regulations.   |

### **SECTION 14: Transport information**

| 14.1. UN number or ID number<br>In accordance with ADR / RID / IMDG / IATA / ADN<br>UN-No.           | : 1956  |
|--|---|
| 14.2. UN proper shipping name  |   |
| Transport by road/rail (ADR/RID)<br>Transport by air (ICAO-TI / IATA-DGR)<br>Transport by sea (IMDG) | <ul> <li>COMPRESSED GAS, N.O.S. (Nitrogen, Nitric oxide)</li> <li>Compressed gas, n.o.s. (Nitrogen, Nitric oxide)</li> <li>COMPRESSED GAS, N.O.S. (Nitrogen, Nitric oxide)</li> </ul> |
| 14.3. Transport hazard class(es)   |   |
| Labelling  |   |
|  | 2.2 : Non-flammable, non-toxic gases.   |
| Transport by road/rail (ADR/RID)<br>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)  | 5 5 5 <u>5</u>  |
| 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 applicable.   |
| Transport by air (ICAO-TI / IATA-DGR)  | : Not applicable.   |
| Transport by sea (IMDG)  | : Not applicable.   |
| 14.5. Environmental hazards  |   |
| Transport by road/rail (ADR/RID)   | : None.   |
| Transport by air (ICAO-TI / IATA-DGR)  | : None.   |
| Transport by sea (IMDG)  | None.   |



: P200.

: 200.

: 200.

: P200.

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### 14.6. Special precautions for user

### Packing Instruction(s)

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

: 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. Maritime transport in bulk according to IMO instruments

Not applicable.

### **SECTION 15: Regulatory information**

| tions/legislation specific for the substance or mixture  |
|--|
|  |
| : None.<br>Contains no substance on the REACH candidate list.  |
| <ul> <li>Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament<br/>and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.</li> <li>Not covered.</li> </ul> |
|  |
| : Ensure all national/local regulations are observed.  |
|  |
| 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.



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| Abbreviations and acronyms | <ul> <li>ATE - Acute Toxicity Estimate.</li> <li>CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008.</li> <li>REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.</li> <li>EINECS - European Inventory of Existing Commercial Chemical Substances.</li> <li>CAS# - Chemical Abstract Service number.</li> <li>PPE - Personal Protection Equipment.</li> <li>LC50 - Lethal Concentration to 50 % of a test population.</li> <li>RMM - Risk Management Measures.</li> <li>PBT - Persistent, Bioaccumulative and Toxic.</li> <li>vPvB - Very Persistent and Very Bioaccumulative.</li> <li>STOT- SE : Specific Target Organ Toxicity - Single Exposure.</li> <li>CSA - Chemical Safety Assessment.</li> <li>EN - European Standard.</li> <li>UN - United Nations.</li> <li>ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road.</li> <li>IATA - International Air Transport Association.</li> <li>IMDG code - International Maritime Dangerous Goods.</li> <li>RID - Regulations concerning the International Carriage of Dangerous Goods by Road.</li> <li>IXTA - International Maritime Dangerous Goods.</li> <li>RID - Regulations concerning the International Carriage of Dangerous Goods by Road.</li> <li>IXTA - International Maritime Dangerous Goods.</li> <li>RID - Regulations concerning the International Carriage of Dangerous Goods by Road.</li> <li>IXTA - International Maritime Dangerous Goods.</li> <li>RID - Regulations concerning the International Carriage of Dangerous Goods by Rail.</li> <li>WGK - Water Hazard Class.</li> <li>STOT - RE : Specific Target Organ Toxicity - Repeated Exposure.</li> <li>UFI : Unique Formula Identifier.</li> </ul> |
|----------------------------|---|
| Training advice            | : Users of breathing apparatus must be trained.<br>Ensure operators understand the toxicity hazard.   |
| Further information        | <ul> <li>Classification using data from databases maintained by the European Industrial Gases<br/>Association (EIGA). Data is maintained in EIGA doc 169 : 'Classification and Labelling<br/>Guide', downloadable at : http://www.eiga.eu.</li> <li>Classification in accordance with the procedures and calculation methods of Regulation<br/>(EC) 1272/2008 (CLP).</li> </ul>   |

| Full text of H- and EUH-statements |   |  |
|------------------------------------|---|--|
| Acute Tox. 1 (Inhalation:gas)      | Acute toxicity (inhalation:gas) Category 1                      |  |
| Acute Tox. 3 (Inhalation:gas)      | Acute toxicity (inhalation:gas) Category 3                      |  |
| Acute Tox. 4 (Inhalation:gas)      | Acute toxicity (inhalation:gas) Category 4                      |  |
| Eye Dam. 1                         | Serious eye damage/eye irritation, Category 1                   |  |
| Flam. Gas 1B                       | Flammable gases, Category 1B                                    |  |
| H221                               | Flammable gas.  |  |
| H270                               | May cause or intensify fire; oxidiser.                          |  |
| H280                               | Contains gas under pressure; may explode if heated.             |  |
| H314                               | Causes severe skin burns and eye damage.                        |  |
| H318                               | Causes serious eye damage.                                      |  |
| H330                               | Fatal if inhaled.   |  |
| H331                               | Toxic if inhaled.   |  |
| H332                               | Harmful if inhaled.   |  |
| H360D                              | May damage the unborn child.                                    |  |
| H372                               | Causes damage to organs through prolonged or repeated exposure. |  |
| Ox. Gas 1                          | Oxidising Gases, Category 1                                     |  |
| Press. Gas (Comp.)                 | Gases under pressure : Compressed gas                           |  |
| Repr. 1A                           | Reproductive toxicity, Category 1A                              |  |



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| Skin Corr. 1B           | Skin corrosion/irritation, Category 1, Sub-Category 1B  |
|-------------------------|---|
| STOT RE 1               | Specific target organ toxicity – Repeated exposure, Category 1  |
| DISCLAIMER OF LIABILITY | <ul> <li>Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.</li> <li>Details given in this document are believed to be correct at the time of going to press.</li> <li>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.</li> </ul> |
|                         | End of document   |