

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 05/07/2013 Revision date: 16/08/2024 Supersedes version of: 02/06/2020 Version: 1.3

| 1.1. Product identif   | er  |
|--|---|
| Product form<br>Name<br>Trade name   | : Mixture<br>: CO2 8 %;Ar 92 %<br>: CORGON® 8   |
| Product code   | : 000010021890  |
| 1.2. Relevant identi   | fied uses of the substance or mixture and uses advised against  |
| 1.2.1. Relevant identif<br>Relevant identified use   |   |
| Use of the substance/r   |   |
| 1.2.2. Uses advised ag<br>Uses advised against   | ainst <ul> <li>Consumer use.</li> <li>Uses other than those listed above are not supported, contact your supplier for more information o other uses.</li> </ul> |
| 1.3. Details of the s  | upplier of the safety data sheet  |
| Linde Gas AB<br>Rättarvägen 3<br>169 68 Solna<br>Sweden<br>T +46 8 7069500<br><u>sds.ren@linde.com</u> |   |
| 1.4. Emergency tele  | phone number  |
| Emergency number   | : Poison center: 020-99 60 00 (24 h). Emergency number: 112   |
| SECTION 2: Hazaro  | s identification  |
| 2.1. Classification of   | the substance or mixture  |
| Classification accordin  | g to Regulation (EC) No. 1272/2008 [CLP]  |
| Physical hazards   | Gases under pressure : Compressed gas H280  |
| Full text of H- and EUH-   | statements: see section 16  |
| Adverse physicochemi<br>No additional informati  | cal, human health and environmental effects   |



## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| 2.2. Label elements   |   |
|---|---|
| Labelling according to Regulation (EC) No.                              | 1272/2008 [CLP]   |
| Hazard pictograms (CLP)   |   |
| Signal word (CLP)   | GHS04<br>: Warning  |
| Hazard statements (CLP)   | : H280 - Contains gas under pressure; may explode if heated.  |
| Precautionary statements (CLP)<br>- Storage<br>Supplemental information | <ul><li>P403 - Store in a well-ventilated place.</li><li>Asphyxiant in high concentrations.</li></ul> |
| 2.3. Other hazards  |   |
| Other hazards   | : Not classified as PBT or vPvB. The substance/mixture has no endocrine disrupting properties.        |

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1%

## SECTION 3: Composition/information on ingredients

## 3.1. Substances

Not applicable

## 3.2. Mixtures

| Name                          | Product identifier                                      | %  | Classification according to Regulation<br>(EC) No. 1272/2008 [CLP] |
|-------------------------------|---|----|--|
| Argon<br>(Main constituent)   | CAS-No.: 7440-37-1<br>EC-No.: 231-147-0<br>REACH-no: *1 | 92 | Press. Gas (Comp.), H280   |
| Carbon dioxide<br>(Component) | CAS-No.: 124-38-9<br>EC-No.: 204-696-9<br>REACH-no: *1  | 8  | Press. Gas (Liq.), H280  |

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.

Full text of H- and EUH-statements: see section 16



# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| SECTION 4: First aid measures  |  |
|--|--|
| 4.1. Description of first aid measures   |  |
| First-aid measures after inhalation<br>First-aid measures after skin contact<br>First-aid measures after eye contact<br>First-aid measures after ingestion | <ul> <li>Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Perform cardiopulmonary resuscitation if breathing stopped.</li> <li>Adverse effects not expected from this product.</li> <li>Adverse effects not expected from this product.</li> <li>Ingestion is not considered a potential route of exposure.</li> </ul> |
| 4.2. Most important symptoms and effects, both a   | у , , , , , , , , , , , , , , , , , , ,  |
| 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.

| 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 substance                                 | or mixture  |
| Reactivity in case of fire<br>Specific hazards<br>Hazardous combustion products | <ul> <li>No reactivity hazard other than the effects described in sub-sections below.</li> <li>Exposure to fire may cause containers to rupture/explode.</li> <li>None.</li> </ul>  |
| 5.3. Advice for firefighters  |   |
| Specific methods<br>Special protective equipment for fire fighters              | <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> <li>In confined space use self-contained breathing apparatus.</li> <li>Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.</li> <li>Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters.</li> <li>Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.</li> </ul> |



# Safety Data Sheet

| SECTION 6: Accidental release measures                 |  |  |  |
|--|--|--|--|
| 6.1. Personal precautions, protective equipment an     | nd emergency procedures  |  |  |
| 6.1.1. For non-emergency personnel                     |  |  |  |
| Emergency procedures :                                 | Act in accordance with local emergency plan. Try to stop release. Evacuate area. Ensure adequate air ventilation. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Stay upwind. See section 8 of the SDS for more information on personal protective equipment. |  |  |
| 6.1.2. For emergency responders                        |  |  |  |
| Emergency procedures :                                 | 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 cle      | aning up   |  |  |
| 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            | <ul> <li>The product must be handled in accordance with good industrial hygiene and safety procedures.<br/>Only experienced and properly instructed persons should handle gases under pressure.<br/>Consider pressure relief device(s) in gas installations.<br/>Ensure the complete gas system was (or is regularily) checked for leaks before use.<br/>Do not smoke while handling product.<br/>Use only properly specified equipment which is suitable for this product, its supply pressure and<br/>temperature. Contact your gas supplier if in doubt.<br/>Avoid suck back of water, acid and alkalis.<br/>Do not breathe gas.<br/>Avoid release of product into work area.</li> </ul> |



## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Safe handling of the gas receptacle                          | <ul> <li>Refer to supplier's container handling instructions.</li> <li>Do not allow backfeed into the container.</li> <li>Protect containers from physical damage; do not drag, roll, slide or drop.</li> <li>When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders.</li> </ul>   |
|--|---|
|  | 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.<br>Never attempt to repair or modify container valves or safety relief devices.  |
|  | Damaged valves should be reported immediately to the supplier.<br>Keep container valve outlets clean and free from contaminants particularly oil and water.<br>Replace valve outlet caps or plugs and container caps where supplied as soon as container is<br>disconnected from equipment.   |
|  | Close container valve after each use and when empty, even if still connected to equipment.<br>Never attempt to transfer gases from one cylinder/container to another.<br>Never use direct flame or electrical heating devices to raise the pressure of a container.<br>Do not remove or deface labels provided by the supplier for the identification of the content of the<br>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 a                | ny incompatibilities  |
| Conditions for safe storage, including any incompatibilities | <ul> <li>Observe all regulations and local requirements regarding storage of containers.<br/>Containers should not be stored in conditions likely to encourage corrosion.<br/>Container valve guards or caps should be in place.<br/>Containers should be stored in the vertical position and properly secured to prevent them from<br/>falling over.</li> <li>Stored containers should be periodically checked for general condition and leakage.<br/>Keep container below 50°C in a well ventilated place.</li> <li>Store containers in location free from fire risk and away from sources of heat and ignition.<br/>Keep away from combustible materials.</li> </ul> |

## 7.3. Specific end use(s)

None.

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| Carbon dioxide (124-38-9)                          |                                 |  |
|--|---------------------------------|--|
| EU - Indicative Occupational Exposure Limit (IOEL) |                                 |  |
| Local name Carbon dioxide                          |                                 |  |
| IOEL TWA   | 9000 mg/m <sup>3</sup>          |  |
| IOEL TWA [ppm]                                     | 5000 ppm                        |  |
| Regulatory reference                               | COMMISSION DIRECTIVE 2006/15/EC |  |
| Sweden - Occupational Exposure Limits              |                                 |  |
| Local name Koldioxid                               |                                 |  |



## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Carbon dioxide (124-38-9) |   |
|---------------------------|---|
| NGV (OEL TWA)             | 9000 mg/m <sup>3</sup>  |
| NGV (OEL TWA) [ppm]       | 5000 ppm  |
| KGV (OEL STEL)            | 18000 mg/m <sup>3</sup>   |
| KGV (OEL STEL) [ppm]      | 10000 ppm   |
| Remark                    | V (Vägledande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte<br>bör överskridas); 34 (Koldioxid används ofta som indikatorsubstans i arbetslokaler där<br>luftföroreningar huvudsakligen uppkommer genom de personer som vistas där) |
| Regulatory reference      | Hygieniska gränsvärden (AFS 2018:1)   |

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

| COD        | 0 0/2 | . A r | 02 | 0/2        |  |
|------------|-------|-------|----|------------|--|
| <b>CO2</b> | 0 %0  | ;AI   | 72 | <b>%</b> 0 |  |

| C02 6 70, AL 22 70                     |  |  |
|--|--|--|
| DNEL/DMEL (additional information)     |  |  |
| Additional information None available. |  |  |
| PNEC (additional information)          |  |  |
| Additional information None available. |  |  |

## 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

### Appropriate engineering controls:

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

#### 8.2.2. Personal protection equipment

### Personal protective equipment:

A risk assessment should be conducted and documented in each work area to assess the risks related to the use of the product and to select the PPE that matches the relevant risk. The following recommendations should be considered: PPE compliant to the recommended EN/ISO standards should be selected.

## Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

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



## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

## 8.2.2.2. Skin protection

### Hand protection:

Wear working gloves when handling gas containers. Standard EN 388 - Protective gloves against mechanical risks, performance level 1 or higher.

#### Other skin protection

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

#### Other information:

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

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

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.

When indicated by a risk assessment, Respiratory Protective Equipment must be used. The selection of the Respiratory Protective Device (RPD) must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected RPD.

### 8.2.2.4. Thermal hazards

## Thermal hazard protection:

None in addition to the above sections.

#### 8.2.3. Environmental exposure controls

### Environmental exposure controls:

None necessary.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

| Appendiance               |  |
|---------------------------|--|
| Appearance                |  |
| Physical state            | : Gas  |
| Colour                    | : Colourless.  |
| Form                      | : Compressed gas   |
| Odour                     | : Odourless.   |
| Odour threshold           | : Odour threshold is subjective and inadequate to warn of overexposure.                                |
| Melting point             | : Not applicable for gases and gas mixtures.   |
| Freezing point            | : Not applicable   |
| 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: Argon -186 °C  |
| Flammability              | : Non flammable.   |
| Oxidising properties      | : No oxidising properties.   |
| Explosive limits          | : 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      | : Not applicable for gases and gas mixtures.   |
|                           |  |



## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Solubility in water<br>Partition coefficient n-octanol/water (Log Kow)<br>Partition coefficient n-octanol/water (Log Pow)<br>Vapour pressure<br>Vapour pressure at 50°C<br>Density<br>Relative density<br>Relative vapour density at 20°C<br>Relative gas density | <ul> <li>Not applicable for gases and gas mixtures.</li> <li>Mixture is partially soluble in water</li> <li>Not available</li> <li>Not applicable for gas mixtures.</li> <li>Not applicable.</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable for gases and gas mixtures.</li> <li>Heavier than air.</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable for gases and gas mixtures.</li> </ul> |
|---|--|
|---|--|

## 9.2. Other information

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

No additional information available

## 9.2.2. Other safety characteristics

| Gas group              |  |
|------------------------|--|
| Additional information |  |

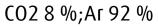
- : Compressed gas
- : Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

| SECTION 10: Stability and reactivity                            |
|---|
| 10.1. Reactivity  |
| Data for mixtures are not available.<br>None.                   |
| 10.2. Chemical stability  |
| Stable under normal conditions.                                 |
| 10.4. Conditions to avoid                                       |
| Avoid moisture in installation systems.                         |
| 10.3. Possibility of hazardous reactions                        |
| No additional information available                             |
| 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 hazard classes   | as defined in Regulation (EC) No 1272/2008   |
| Acute toxicity                        | : Toxicological effects not expected from this product if occupational exposure limit values are not exceeded. |
| Acute toxicity (dermal)               | : Not classified   |



## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 : Not classified Acute toxicity (inhalation) Skin corrosion/irritation : No known effects from this product. pH: Not applicable for gases and gas mixtures. Carbon dioxide (124-38-9) Not applicable for gases and gas mixtures. DН Argon (7440-37-1) pН Not applicable for gases and gas mixtures. : No known effects from this product. Serious eye damage/irritation pH: Not applicable for gases and gas mixtures. Carbon dioxide (124-38-9) pН Not applicable for gases and gas mixtures. Argon (7440-37-1) Not applicable for gases and gas mixtures. DН 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. Reproductive toxicity Not classified Toxic for reproduction : Fertility No known effects from this product. Toxic for reproduction : unborn child : No known effects from this product. STOT-single exposure : No known effects from this product. STOT-repeated exposure : No known effects from this product. Aspiration hazard Not applicable for gases and gas mixtures. CO2 8 %;Ar 92 % Viscosity, kinematic Not applicable for gases and gas mixtures. Carbon dioxide (124-38-9) Viscosity, kinematic Not applicable for gases and gas mixtures. Argon (7440-37-1)

Viscosity, kinematic No reliable data available 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting : The substance/mixture has no endocrine disrupting properties. properties

### 11.2.2. Other information

Other information

: For more information, see 'EIGA Safety Info 24: Carbon Dioxide, Physiological Hazards' at www.eiga.eu,Unlike simple asphyxiants, carbon dioxide has the ability to cause death even when normal oxygen levels (20-21%) are maintained. 5% CO2 has been found to act synergistically to increase the toxicity of certain other gases (CO, NO2). CO2 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.





# Safety Data Sheet

| SECTION 12: Ecological information                         |  |  |
|--|--|--|
| 12.1. Toxicity   |  |  |
| Hazardous to the aquatic environment, short-term : (acute) | No ecological damage caused by this product.<br>Not classified<br>Not classified |  |
| CO2 8 %;Ar 92 %  |  |  |
| LC50 96 h - Fish [mg/l]                                    | No data available.   |  |
| EC50 48h - Daphnia magna [mg/l]                            | No data available.   |  |
| EC50 72h - Algae [mg/l]                                    | No data available.   |  |
| Carbon dioxide (124-38-9)                                  |  |  |
| LC50 96 h - Fish [mg/l]                                    | No data available.   |  |
| EC50 48h - Daphnia magna [mg/l]                            | No data available.   |  |
| EC50 72h - Algae [mg/l]                                    | No data available.   |  |
| Argon (7440-37-1)  |  |  |
| LC50 96 h - Fish [mg/l]                                    | No data available.   |  |
| EC50 48h - Daphnia magna [mg/l]                            | No data available.   |  |
| EC50 72h - Algae [mg/l]                                    | No data available.   |  |
| 12.2. Persistence and degradability                        |  |  |
| CO2 8 %;Ar 92 %  |  |  |
| Assessment   | No ecological damage caused by this product.                                     |  |
| Carbon dioxide (124-38-9)                                  |  |  |
| Assessment   | No ecological damage caused by this product.                                     |  |
| Argon (7440-37-1)  |  |  |
| Assessment   | No ecological damage caused by this product.                                     |  |
| 12.3. Bioaccumulative potential                            |  |  |
| CO2 8 %;Ar 92 %  |  |  |
| Partition coefficient n-octanol/water (Log Pow)            | Not applicable for gas mixtures.   |  |
| Assessment   | No ecological damage caused by this product.                                     |  |
| Carbon dioxide (124-38-9)                                  |  |  |
| Partition coefficient n-octanol/water (Log Pow)            | 0.83   |  |
| Partition coefficient n-octanol/water (Log Kow)            | 0.83   |  |
|  |  |  |



# Safety Data Sheet

| Carbon dioxide (124-38-9)  |   |
|--|---|
|  | No ecological damage caused by this product.  |
| Argon (7440-37-1)  |   |
| Partition coefficient n-octanol/water (Log Pow)  | Not applicable for gas mixtures.  |
| Partition coefficient n-octanol/water (Log Kow)  | Not applicable for inorganic products.  |
|  | No ecological damage caused by this product.  |
| 12.4. Mobility in soil   |   |
| СО2 8 %;Аг 92 %  |   |
| Assessment   | No ecological damage caused by this product.  |
| Carbon dioxide (124-38-9)  |   |
| Ecology - soil   | No ecological damage caused by this product.  |
| Argon (7440-37-1)  |   |
| Ecology - soil   | 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  |   |
| Other adverse effects<br>Assessment<br>Adverse effects on the environment caused by<br>endocrine disrupting properties | <ul> <li>No known effects from this product.</li> <li>The substance/mixture has no endocrine disrupting properties.</li> <li>The substance/mixture has no endocrine disrupting properties.</li> </ul> |
| 12.7. Other adverse effects  |   |
| Other adverse effects  | : No known effects from this product.   |
| Effect on the ozone layer<br>Effect on global warming  | <ul><li>No effect on the ozone layer.</li><li>Contains greenhouse gas(es).</li></ul>  |
| SECTION 13: Disposal considerations  |   |
| 13.1. Waste treatment methods  |   |
| Waste treatment methods  | : 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.         |
| List of hazardous waste codes (from Commission Decision 2000/532/EC as amended)  | : 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.   |



## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### SECTION 14: Transport information In accordance with ADR / IMDG / IATA / ADN / RID ADR IMDG IATA ADN RID 14.1. UN number or ID number UN 1956 UN 1956 UN 1956 UN 1956 UN 1956 14.2. UN proper shipping name COMPRESSED GAS, N.O.S. (Argon, Carbon Dioxide) Transport document description UN 1956 COMPRESSED GAS, N.O.S. (Argon, Carbon Dioxide), 2.2, (E) Dioxide), 2.2 Dioxide), 2.2 Dioxide), 2.2 Dioxide), 2.2 14.3. Transport hazard class(es) 2.2 2.2 2.2 2.2 2.2 14.4. Packing group Not applicable Not applicable Not applicable Not applicable Not applicable 14.5. Environmental hazards Dangerous for the environment: No environment: No environment: No environment: No environment: No Marine pollutant: No No supplementary information available 14.6. Special precautions for user

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.

### Overland transport

| Classification code (ADR)                 | : 1A                      |
|---|---------------------------|
| Special provisions (ADR)                  | : 274, 378, 392, 655, 662 |
| Limited quantities (ADR)                  | : 120ml                   |
| Excepted quantities (ADR)                 | : E1                      |
| Packing instructions (ADR)                | : P200                    |
| Vehicle for tank carriage                 | : AT                      |
| Transport category (ADR)                  | : 3                       |
| Hazard identification number (Kemler No.) | : 20                      |
|   |                           |



# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Orange plates  | 20                        |
|--|---------------------------|
| Tunnel restriction code (ADR)                            | <b>1956</b>               |
|  |                           |
| Transport by sea   |                           |
| Special provisions (IMDG)                                | : 274, 378, 392           |
| Limited quantities (IMDG)                                | : 120 ml                  |
| Excepted quantities (IMDG)                               | : E1                      |
| Packing instructions (IMDG)                              | : P200                    |
| EmS-No. (Fire)   | : F-C                     |
| EmS-No. (Spillage)                                       | : S-V                     |
| Stowage category (IMDG)                                  | : A                       |
| Air transport  |                           |
| PCA Excepted quantities (IATA)                           | : E1                      |
| PCA Limited quantities (IATA)                            | : FORBIDDEN               |
| PCA limited quantity max net quantity (IATA)             | : FORBIDDEN               |
| PCA packing instructions (IATA)                          | : 200                     |
| PCA max net quantity (IATA)                              | : 75kg                    |
| CAO packing instructions (IATA)                          | : 200                     |
| CAO max net quantity (IATA)                              | : 150kg                   |
| ERG code (IATA)  | : 2L                      |
| Inland waterway transport                                |                           |
| Classification code (ADN)                                | : 1A                      |
| Special provisions (ADN)                                 | : 274, 378, 392, 655, 662 |
| Limited quantities (ADN)                                 | : 120 ml                  |
| Excepted quantities (ADN)                                | : E1                      |
| Equipment required (ADN)                                 | : PP                      |
| Number of blue cones/lights (ADN)                        | : 0                       |
|  |                           |
| Rail transport<br>Classification code (RID)              | : 1A                      |
| Special provisions (RID)                                 | 274, 378, 392, 655, 662   |
| Limited quantities (RID)                                 | : 120ml                   |
| Excepted quantities (RID)                                | : E1                      |
| Packing instructions (RID)                               | : P200                    |
| Mixed packing provisions (RID)                           | : MP9                     |
| Portable tank and bulk container instructions (RID)      | : (M)                     |
| Tank codes for RID tanks (RID)                           | : CXBN(M)                 |
| Special provisions for RID tanks (RID)                   | : TA4, TT9                |
| Transport category (RID)                                 | : 3                       |
| Special provisions for carriage - Loading, unloading and | : CW9, CW10, CW36         |
| nandling (RID)   |                           |
| Colis express (express parcels) (RID)                    | : CE3                     |
| Hazard identification number (RID)                       | : 20                      |
| 14.7. Maritime transport in bulk according to IMO        | instruments               |
|  |                           |

: Not applicable.



## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

#### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

#### **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

#### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

#### VOC Directive (2004/42)

Restrictions on use

Seveso Directive (Disaster Risk Reduction)

Seveso Directive : 2012/18/EU (Seveso III) : Not covered.

#### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.1.2. National regulations

Ensure all national/local regulations are observed.

Safety data sheet in accordance with commission regulation (EU) No 2020/878.

Council Directive 89/391/EEC on the introduction of measures to encourage improvements in the safety and health of workers at work

Directive 2016/425/EEC on personal protective equipment

Directive 2014/34/EU on equipment and protective systems intended for use in potentially explosive atmospheres (ATEX)

Only products that comply with the food regulations (EC) No. 1333/2008 and (EU) No. 231/2012 and are labelled as such may be used as food additives. This Safety Data Sheet has been produced to comply with Regulation (EU) 2015/830.

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.



# Safety Data Sheet

| Indication of changes |          |
|-----------------------|----------|
| Changed item          | Change   |
|                       | Comments |

| Abbreviations and acronyms: |   |  |
|-----------------------------|---|--|
| ADN                         | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |  |
|                             | ADR - Agreement concerning the International Carriage of Dangerous Goods by Road                |  |
|                             | ATE - Acute Toxicity Estimate   |  |
| BLV                         | Biological limit value  |  |
| BOD                         | Biochemical oxygen demand (BOD)   |  |
| CAO                         | Cargo Aircraft only / Cargo Aircraft only   |  |
| CAS-No.                     | Chemical Abstract Service number  |  |
|                             | CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008               |  |
| COD                         | Chemical oxygen demand (COD)  |  |
|                             | CSA - Chemical Safety Assessment  |  |
| DMEL                        | Derived Minimal Effect level  |  |
| DNEL                        | Derived-No Effect Level   |  |
| EC50                        | Median effective concentration  |  |
| EC                          | European Inventory of Existing Commercial Chemical Substances                                   |  |
| ED                          | Endocrine disrupting properties   |  |
|                             | EINECS - European Inventory of Existing Commercial Chemical Substances                          |  |
| EN                          | European Standard   |  |
| IARC                        | International Agency for Research on Cancer   |  |
| IATA                        | International Air Transport Association   |  |
| IMDG                        | International Maritime Dangerous Goods  |  |
| IOELV                       | Indicative Occupational Exposure Limit Value  |  |
| LC50                        | Median lethal concentration   |  |
| LD50                        | Median lethal dose  |  |
| LOAEL                       | Lowest Observed Adverse Effect Level  |  |
| NOAEC                       | IOAEC No-Observed Adverse Effect Concentration  |  |
| NOAEL                       | No-Observed Adverse Effect Level  |  |
| NOEC                        | No-Observed Effect Concentration  |  |
| N.O.S.                      | Not Otherwise Specified   |  |
| OECD                        | Organisation for Economic Co-operation and Development  |  |
| OEL                         | Occupational Exposure Limit   |  |
| PBT                         | Persistent Bioaccumulative Toxic  |  |



## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Abbreviations and acronyms: |   |  |
|-----------------------------|---|--|
| РСА                         | Passenger and Cargo Aircraft / Passenger and Cargo Aircraft                                       |  |
| PNEC                        | Predicted No-Effect Concentration   |  |
|                             | PPE - Personal Protection Equipment   |  |
| REACH                       | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |  |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail                      |  |
|                             | RMM - Risk Management Measures  |  |
| STP                         | Sewage treatment plant  |  |
| ThOD                        | Theoretical oxygen demand (ThOD)  |  |
| TLM                         | Median Tolerance Limit  |  |
| TRGS                        | Technical Rules for Hazardous Substances  |  |
| STOT-RE                     | Specific Target Organ Toxicity-Repeated Exposure  |  |
| STOT-SE                     | Specific Target Organ Toxicity-Single Exposure  |  |
| UFI                         | FI Unique Formula Identifier  |  |
|                             | UN - United Nations   |  |
| VOC                         | Volatile Organic Compounds  |  |
| vPvB                        | Very Persistent and Very Bioaccumulative  |  |
| WGK                         | Water Hazard Class  |  |

Training advice

Other information

: 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).

| Full text of H- and EUH-statements: |   |
|-------------------------------------|---|
| H280                                | Contains gas under pressure; may explode if heated. |
| Press. Gas (Comp.)                  | Gases under pressure : Compressed gas               |
| Press. Gas (Liq.)                   | Gases under pressure : Liquefied gas                |

The classification complies with

: ATP 12

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.

Safety Data Sheet (SDS), EU SE

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

Safety Data Sheet according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878



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