



# Argon, compressed

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
 Reference number: EIGA003A  
 Issue date: 16/01/2013 Revision date: 30/01/2025 Supersedes version of: 05/06/2024 Version: 1.7

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

#### 1.1. Product identifier

|                                |  |
|--------------------------------|--|
| Product form                   | : Substance  |
| Name                           | : Argon, compressed  |
| Trade name                     | : Argon, Argon 4.8; Argon 5.0; Argon 5.3; Argon 5.6, Argon 6.0; Argon for spectrometry; BIOGON®A E938; |
| EC-No.                         | : 231-147-0  |
| CAS-No.                        | : 7440-37-1  |
| REACH registration No          | : Listed in Annex IV / V REACH, exempted from registration.  |
| Product code                   | : 000010021700   |
| Formula                        | : Ar   |
| REACH authorisation exemptions | : Exempted from REACH registration   |

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

##### 1.2.1. Relevant identified uses

|                              |  |
|------------------------------|--|
| Relevant identified uses     | : Industrial and professional uses. Perform risk assessment prior to use.<br>Test gas/Calibration gas.<br>Purge gas, diluting gas, inerting gas.<br>Use for manufacture of electronic/photovoltaic components.<br>Shield gas for welding processes.<br>Food applications.<br>Consumer use.<br>Laboratory use.<br>Insulation material in glazing. |
| Use of the substance/mixture | : Balance gas for mixtures.<br>Blanketing gas.<br>Carrier gas.<br>Combustion, melting and cutting processes.<br>Fire suppressant gas.<br>Inflation systems.<br>Pressure head gas, operational assist gas in pressure systems.<br>Process gas.<br>Laser gas.<br>Purge gas, diluting gas, inerting gas.  |

##### 1.2.2. Uses advised against

|                      |   |
|----------------------|---|
| Uses advised against | : None.   |
| Restrictions on use  | : Industrial or technical grade is unsuitable for medical and/or food applications or inhalation. |

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

Linde Gas GmbH  
 Carl-von-Linde-Platz 1  
 A-4651 Stadl-Paura  
 Austria



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T +43 50 4273  
[office@at.linde-gas.com](mailto:office@at.linde-gas.com)

### 1.4. Emergency telephone number

Emergency number : UMCO/NCEC: +44 1865 407333 (English); +49 89 220 61012 (German)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Physical hazards                      Gases under pressure : Compressed gas    H280

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

#### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :   
 GHS04

Signal word (CLP) : Warning  
 Hazard statements (CLP) : H280 - Contains gas under pressure; may explode if heated.

Precautionary statements (CLP)  
 - Storage : P403 - Store in a well-ventilated place.  
 Supplemental information : Asphyxiant in high concentrations.

### 2.3. Other hazards

Other hazards : Asphyxiant in high concentrations. The substance/mixture has no endocrine disrupting properties.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

| Name              | Product identifier                                      | %   | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-------------------|---|-----|---|
| Argon, compressed | CAS-No.: 7440-37-1<br>EC-No.: 231-147-0<br>REACH-no: *1 | 100 | Press. Gas (Comp.), H280  |

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.



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### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures after 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. |
| First-aid measures after skin contact | : Adverse effects not expected from this product.  |
| First-aid measures after eye contact  | : Adverse effects not expected from this product.  |
| First-aid measures after ingestion    | : Ingestion is not considered a potential route of exposure.   |

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

|   |   |
|---|---|
| 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.<br>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    | : No reactivity hazard other than the effects described in sub-sections below. |
| Specific hazards              | : Exposure to fire may cause containers to rupture/explode.                    |
| Hazardous combustion products | : None.  |

### 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.<br>If possible, stop flow of product.<br>Use water spray or fog to knock down fire fumes if possible.<br>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.<br>Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.<br>Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters.<br>Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.  |



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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and 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 cleaning 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 : 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 regularly) 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. Avoid suck back of water, acid and alkalis. Do not breathe gas. Avoid release of product into work area.



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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

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

#### 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available



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### 8.1.4. DNEL and PNEC

| Argon, compressed (7440-37-1)      |                 |
|------------------------------------|-----------------|
| DNEL/DMEL (additional information) |                 |
| Additional information             | None available. |
| PNEC (additional information)      |                 |
| Additional information             | None available. |

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 regularly checked for leakages. 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

#### 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.



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### 8.2.2.3. Respiratory protection

**Respiratory protection:**

Self contained breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen-deficient atmospheres.  
 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.

### 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

|   |   |
|---|---|
| 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                                   | : -189 °C   |
| Freezing point                                  | : Not applicable  |
| Boiling point                                   | : -186 °C   |
| Flammability                                    | : Non flammable.  |
| Oxidising properties                            | : No oxidising properties.  |
| Explosive limits                                | : Not known.  |
| Lower explosion limit                           | : Not applicable.   |
| Upper explosion limit                           | : Not applicable.   |
| Flash point                                     | : Not applicable for gases and gas mixtures.                            |
| Auto-ignition temperature                       | : Non flammable.  |
| Decomposition temperature                       | : Not applicable.   |
| pH  | : Not applicable for gases and gas mixtures.                            |
| Viscosity, kinematic                            | : No reliable data available.   |
| Viscosity, dynamic                              | : No reliable data available.   |
| Solubility in water                             | : 67.3 mg/l   |
| Partition coefficient n-octanol/water (Log Kow) | : Not applicable for inorganic products.                                |
| Partition coefficient n-octanol/water (Log Pow) | : Not applicable for gas mixtures.                                      |
| Vapour pressure                                 | : Not applicable.   |
| Vapour pressure at 50°C                         | : Not applicable.   |
| Critical pressure                               | : 4898 kPa  |
| Density   | : Not applicable for gases and gas mixtures.                            |
| Relative density                                | : 1.4   |
| Relative vapour density at 20°C                 | : Not applicable.   |
| Relative gas density                            | : 1.38  |
| Particle characteristics                        | : Not applicable  |
|   | Not applicable for gases and gas mixtures.                              |
|   | Nanoforms are not relevant for gases and gas mixtures.                  |



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### 9.2. Other information

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

Critical temperature : -122 °C

#### 9.2.2. Other safety characteristics

Molecular mass : 40 g/mol

Gas group : Compressed gas

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

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No reactivity hazard other than the effects described in sub-sections below.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

None.

### 10.4. Conditions to avoid

Avoid moisture in installation systems.

### 10.5. Incompatible materials

For additional information on compatibility refer to ISO 11114.

### 10.6. Hazardous decomposition products

None.

## SECTION 11: Toxicological information

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

|                                       |   |
|---------------------------------------|---|
| Acute toxicity                        | : No known toxicological effects from this product.                                     |
| Acute toxicity (dermal)               | : Not classified  |
| Acute toxicity (inhalation)           | : Not classified  |
| Skin corrosion/irritation             | : No known effects from this product.<br>pH: Not applicable for gases and gas mixtures. |
| Serious eye damage/irritation         | : No known effects from this product.<br>pH: Not applicable for gases and gas mixtures. |
| 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.   |





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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.

|                                      |                             |
|--------------------------------------|-----------------------------|
| <b>Argon, compressed (7440-37-1)</b> |                             |
| 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 properties : The substance/mixture has no endocrine disrupting properties.

#### 11.2.2. Other information

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Assessment : No ecological damage caused by this product.  
 Hazardous to the aquatic environment, short-term (acute) : Not classified  
 Hazardous to the aquatic environment, long-term (chronic) : Not classified  
 Not rapidly degradable

|                                      |                    |
|--------------------------------------|--------------------|
| <b>Argon, compressed (7440-37-1)</b> |                    |
| 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

|                                      |  |
|--------------------------------------|--|
| <b>Argon, compressed (7440-37-1)</b> |  |
| Assessment                           | No ecological damage caused by this product. |

### 12.3. Bioaccumulative potential

|   |  |
|---|--|
| <b>Argon, compressed (7440-37-1)</b>            |  |
| Partition coefficient n-octanol/water (Log Pow) | Not applicable for gas mixtures.             |
| Partition coefficient n-octanol/water (Log Kow) | Not applicable for inorganic products.       |
| Assessment                                      | No ecological damage caused by this product. |

### 12.4. Mobility in soil

|                                      |  |
|--------------------------------------|--|
| <b>Argon, compressed (7440-37-1)</b> |  |
| Assessment                           | No ecological damage caused by this product. |



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### 12.5. Results of PBT and vPvB assessment

Assessment : Not classified as PBT or vPvB.

### 12.6. Endocrine disrupting properties

Other adverse effects : No known effects from this product.  
 Assessment : The substance/mixture has no endocrine disrupting properties.

### 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 : None.

## 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.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                                     | IMDG                           | IATA                           | ADN                            | RID                            |
|---|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| <b>14.1. UN number or ID number</b>     |                                |                                |                                |                                |
| UN 1006                                 | UN 1006                        | UN 1006                        | UN 1006                        | UN 1006                        |
| <b>14.2. UN proper shipping name</b>    |                                |                                |                                |                                |
| ARGON, COMPRESSED                       | ARGON, COMPRESSED              | Argon, compressed              | ARGON, COMPRESSED              | ARGON, COMPRESSED              |
| <b>Transport document description</b>   |                                |                                |                                |                                |
| UN 1006 ARGON, COMPRESSED, 2.2, (E)     | UN 1006 ARGON, COMPRESSED, 2.2 | UN 1006 Argon, compressed, 2.2 | UN 1006 ARGON, COMPRESSED, 2.2 | UN 1006 ARGON, COMPRESSED, 2.2 |
| <b>14.3. Transport hazard class(es)</b> |                                |                                |                                |                                |
| 2.2                                     | 2.2                            | 2.2                            | 2.2                            | 2.2                            |
|   |                                |                                |                                |                                |



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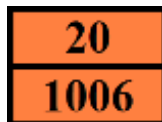
| ADR                                    | IMDG  | IATA                              | ADN                               | RID                               |
|--|---|-----------------------------------|-----------------------------------|-----------------------------------|
| <b>14.4. Packing group</b>             |   |                                   |                                   |                                   |
| Not applicable                         | Not applicable  | Not applicable                    | Not applicable                    | Not applicable                    |
| <b>14.5. Environmental hazards</b>     |   |                                   |                                   |                                   |
| Dangerous for the environment: No      | Dangerous for the environment: No<br>Marine pollutant: No | Dangerous for the environment: No | Dangerous for the environment: No | Dangerous for the environment: 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) : 378, 392, 653, 662  
 Limited quantities (ADR) : 120ml  
 Excepted quantities (ADR) : E1  
 Packing instructions (ADR) : P200  
 Mixed packing provisions (ADR) : MP9  
 Portable tank and bulk container instructions (ADR) : (M)  
 Tank code (ADR) : CxBN(M)  
 Tank special provisions (ADR) : TA4, TT9  
 Vehicle for tank carriage : AT  
 Transport category (ADR) : 3  
 Special provisions for carriage - Loading, unloading and handling (ADR) : CV9, CV10, CV36  
 Hazard identification number (Kemler No.) : 20  
 Orange plates :



Tunnel restriction code (ADR) : E

#### Transport by sea

Special provisions (IMDG) : 378  
 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  
 Properties and observations (IMDG) : Inert gas. Heavier than air (1.4).



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### 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     |
| Special provisions (IATA)                    | : A69, A202 |
| ERG code (IATA)                              | : 2L        |

### Inland waterway transport

|                                   |                      |
|-----------------------------------|----------------------|
| Classification code (ADN)         | : 1A                 |
| Special provisions (ADN)          | : 378, 392, 653, 662 |
| Limited quantities (ADN)          | : 120 ml             |
| Excepted quantities (ADN)         | : E1                 |
| Equipment required (ADN)          | : PP                 |
| Number of blue cones/lights (ADN) | : 0                  |

### Rail transport

|   |                     |
|---|---------------------|
| Classification code (RID)   | : 1A                |
| Special provisions (RID)  | : 378, 392, 653, 62 |
| 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 handling (RID) | : CW9, CW10, CW36   |
| Colis express (express parcels) (RID)                                   | : CE3               |
| Hazard identification number (RID)                                      | : 20                |

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

|          |                   |
|----------|-------------------|
| IBC code | : Not applicable. |
|----------|-------------------|

## 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)

Not listed on REACH Annex XVII

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

Not listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Not listed on the REACH Candidate List



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### PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

### POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

### VOC Directive (2004/42)

Restrictions on use : None.

### 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.

| 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)  |



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## Safety Data Sheet

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

| Abbreviations and acronyms: |   |
|-----------------------------|---|
|                             | 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                       | 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  |
| PCA                         | 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  |



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## Safety Data Sheet

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

| Abbreviations and acronyms: |  |
|-----------------------------|--|
| UFI                         | Unique Formula Identifier                |
|                             | UN - United Nations                      |
| VOC                         | Volatile Organic Compounds               |
| vPvB                        | Very Persistent and Very Bioaccumulative |
| WGK                         | Water Hazard Class                       |

- Training advice : 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>.
- Other information : Classification in accordance with the procedures and calculation methods of Regulation (EC) 1272/2008 (CLP). Key literature references and sources of data are maintained in EIGA doc 169 : 'Classification and Labelling Guide', downloadable at <http://www.Eiga.eu> .

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

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.

**End of document**