

**LIQUID ARGON**

Date of compilation: 17.05.2026 Version: 1

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**
**1.1 Product identifier:** Argon, refrigerated liquid

CAS: 7440-37-1

EC: 231-147-0

Index: Not available

REACH: Exempt

**Other means of identification:**

Not available

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

Relevant uses (Industrial user)

Uses advised against: All uses not specified in this section or in section 7.3

**1.3 Details of the supplier of the safety data sheet:**
**YOLBULAN ÇELİK SANAYİ VE TİCARET ANONİM ŞİRKETİ**

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**SECTION 2: HAZARDS IDENTIFICATION**
**2.1 Classification of the substance or mixture:**
**CLP Regulation (EC) No 1272/2008:**

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Press. Gas (Ref. Liq.): Gases under pressure (Refrigerated liquefied gas), H281

**2.2 Label elements:**
**CLP Regulation (EC) No 1272/2008:**

Warning


**Hazard statements:**

Press. Gas (Ref. Liq.): H281 - Contains refrigerated gas, may cause cryogenic burns or injury.

**Precautionary statements:**

P282: Wear cold insulating gloves and either face shield or eye protection.

P336+P315: Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical advice/attention.

P403: Store in a well-ventilated place.

**2.3 Other hazards:**

Product does not meet PBT/vPvB criteria

Endocrine-disrupting properties: The product does not meet the criteria.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**
**3.1 Substance:**
**Chemical description:** Refrigerated liquefied substance

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

| Identification        |                      | Chemical name/Classification           |  | Concentration |
|-----------------------|----------------------|----------------------------------------|--|---------------|
| CAS: 7440-37-1        | Regulation 1272/2008 | Argon                                  |  | 100 %         |
| EC: 231-147-0         |                      | Press. Gas (Ref. Liq.): H281 - Warning |  |               |
| Index: Non-applicable |                      |                                        |  |               |
| REACH: Non-applicable |                      |                                        |  |               |

To obtain more information on the hazards of the substances consult sections 11, 12 and 16. The purity of the substance is used for classification purposes, see the Analysis document.

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)****3.2 Mixture:**

Non-applicable

**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures:**

Suffocating gas. Causes respiratory arrest Exposure to rapidly expanding gases can cause frostbite burns.

**By inhalation:**

High concentrations cause suffocation. Remove the person from the exposed area to fresh air. Seek immediate medical attention if the person loses consciousness. If breathing has stopped, perform artificial respiration..

**By skin contact:**

In situations where local frostbite burns occur due to contact with gas, contaminated clothing should not be removed if it is stuck to the skin. Wash the frozen areas with lukewarm water. Do not rub the affected area.

**By eye contact:**

In case of local frostbite, rinse the eyes immediately with plenty of lukewarm water for at least 15 minutes. It is recommended to remove contact lenses if they are removable.

**By ingestion/aspiration:**

It is not considered a potential route of exposure.

**4.2 Most important symptoms and effects, both acute and delayed:**

Causes respiratory arrest. Exposure to rapidly expanding gas or vaporizing liquid can cause frostbite ("cold burns"). Contact can cause irritation with redness, tearing, pain, and/or blurred vision.

**4.3 Indication of any immediate medical attention and special treatment needed:**

It causes respiratory arrest. Contact with liquefied gas may cause damage (freezing) due to cooling. Seek immediate medical attention.

**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media:**

**Suitable extinguishing media:** A fire extinguisher suitable for extinguishing burning material should be used.

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

**Unsuitable extinguishing media:**

Water jet

**5.2 Special hazards arising from the substance or mixture:**

Hazardous combustion products: None caused by this product.  
Exposure to fire may cause containers to rupture/explode.

**5.3 Advice for firefighters:**

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

**Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures:** Check the oxygen level indoors, do not enter if it is <19.5%.**For non-emergency personnel:**

Try to stop the swing if there is no additional risk to the people performing this task. Evacuate the area. Ensure adequate ventilation. Prevent it from entering drains, basements, or any other place where it may be dangerous to accumulate.

**For emergency responders:**

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**SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)**

Unless the environment has been proven to be safe, use self-contained breathing apparatus. Keep unprotected persons away. See section 8.

**6.2 Environmental precautions:**

Try to stop release if there is no additional risk for the people performing this task.

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

It is recommended:

Use water spray to reduce vapors and/or divert the vapor cloud. Try to stop the release if there is no additional risk to the persons performing this task. Evacuate and isolate the area until the gas has dispersed.

**6.4 Reference to other sections:**

See sections 8 and 13.

**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling:****A.- General precautions for safe use**

**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 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.

**SAFE HANDLING OF THE GAS RECEPTABLE:** 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. Suck back of water into the container must be prevented. Open valve slowly to avoid pressure shock.

**B.- Technical recommendations for the prevention of fires and explosions**

Pressurized gases should only be carried/used by experienced and appropriately trained persons. Use equipment with the right specifications, suitable for the supply pressure and temperature of the product. Close the valve after each use and when it is drained. Replace all valve guards as soon as the container is disconnected from the equipment. Use appropriate means to transport containers: do not drag, roll, drop, etc. Prevent water from being sucked back into the container. Avoid feeding back into the container. Release air from the system before introducing gas. Only use equipment with the appropriate specifications, suitable for this product as well as the supply temperature and pressure. In case of doubt, contact your gas supplier. Make sure the ventilation is adequate. Wear the necessary personal protective equipment. See sec 10 for conditions and materials to avoid.

**C.- Technical recommendations on general occupational hygiene**

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

**D.- Technical recommendations to prevent environmental risks**

Store in a well-ventilated place. Keep container tightly closed.

**7.2 Conditions for safe storage, including any incompatibilities:****A.- Specific storage requirements**

Store in a cool, dry, well-ventilated location

**B.- General conditions for storage**

Keep the container in a well-ventilated place. Prevent the build-up of static electricity. Store containers upright and secure them properly to prevent them from falling or tipping over. Stored containers should be checked periodically for overall condition and leaks. Store away from unsuitable materials (See sec 10).

**7.3 Specific end use(s):**

No use other than as defined in this section and section 1.2 is prescribed.

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**
**8.1 Control parameters:**

Substances whose occupational exposure limits have to be assessed in the workplace:

There are no applicable occupational exposure limits for the substances contained in the product

**DNEL (Workers):**

Not available

**DNEL (General population):**

Not available

**PNEC:**

Not available

**8.2 Exposure controls:**

A.- Individual protection measures, such as personal protective equipment

Ensure both general and local ventilation are provided, with an appropriate air renewal frequency to keep exposures below recommended limits. If no limits are established, maintain contaminants at acceptable levels. Select personal protective equipment based on risk analysis and consult with your personal protective equipment provider as needed. Make sure that personal protective equipment complies with current regulations. Periodically check containers for leaks, and consider using gas detectors when gases could potentially be released into the environment.

B.- Respiratory protection

| Pictogram                              | PPE                                     | Labelling | CEN Standard | Remarks                                                                       |
|----------------------------------------|-----------------------------------------|-----------|--------------|-------------------------------------------------------------------------------|
| Mandatory respiratory tract protection | Not required in open area/general work) |           |              | Wear cryogenic protective equipment when transferring or filling liquid argon |

SCBA (Clean Air Tube Breathing Set) in Confined Space or in Case of Leakage: Use positive pressure scuba breathing systems that are completely independent of ambient air.

C.- Specific protection for the hands

| Pictogram                                                                                                        | PPE                                   | Labelling | CEN Standard                                     | Remarks                                          |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------|--------------------------------------------------|--------------------------------------------------|
| <br>Mandatory hand protection | Cryogenic (resistant to extreme cold) |           | EN 511 cryogenic (extreme cold resistant) glove. | Change gloves before any signs of deterioration. |

In the event of potential exposure to the product at low temperatures, consider the use of cold-resistant thermal gloves.

D.- Eye and face protection

| Pictogram                                                                                                        | PPE                                                      | Labelling | CEN Standard            | Remarks |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------|-------------------------|---------|
| <br>Mandatory face protection | Panoramic glasses against splashes and/or throws, visor. |           | EN 166 full face shield |         |

E.- Body protection

| Pictogram                                                                                                                 | PPE                        | Labelling | CEN Standard | Remarks                                  |
|---------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------|--------------|------------------------------------------|
| <br>Mandatory complete body protection | Cryogenic protection suit  |           |              | Frost and cold burn resistant protection |
| <br>Mandatory foot protection          | Cryogenic protection shoes |           |              | Replace at any sign of deterioration.    |

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**
**F.- Additional emergency measures**

It is advised to implement additional emergency equipments in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipments.

| Emergency measure                                                                                     | Standards                                       | Emergency measure                                                                                      | Standards                                      |
|-------------------------------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------|
| <br>Emergency shower | ANSI Z358-1<br>ISO 3864-1:2011, ISO 3864-4:2011 | <br>Eyewash stations | DIN 12 899<br>ISO 3864-1:2011, ISO 3864-4:2011 |

**Environmental exposure controls:**

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

**Volatile organic compounds:**

With regard to Directive 2010/75/EU, this product has the following characteristics:

|                           |                             |
|---------------------------|-----------------------------|
| V.O.C. (Supply):          | 0 % weight                  |
| V.O.C. density at 20 °C:  | 0 kg/m <sup>3</sup> (0 g/L) |
| Average carbon number:    | Not available               |
| Average molecular weight: | Not available               |

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**
**9.1 Information on basic physical and chemical properties:**

For complete information see the product datasheet.

**Appearance:**

|                          |                            |
|--------------------------|----------------------------|
| Physical state at 20 °C: | Gas                        |
| Appearance:              | Refrigerated liquefied gas |
| Colour:                  | Colorless                  |
| Odour:                   | Odorless                   |
| Odour threshold:         | Not available *            |

**Volatility:**

|                                        |                 |
|----------------------------------------|-----------------|
| Boiling point at atmospheric pressure: | -185,8 °C       |
| Vapour pressure at 20 °C:              | Not available * |
| Vapour pressure at 50 °C:              | Not available * |
| Evaporation rate at 20 °C:             | Not available * |

**Product description:**

|                                              |                        |
|----------------------------------------------|------------------------|
| Density at -185,8 °C:                        | 1394 kg/m <sup>3</sup> |
| Gas density:                                 | 1,66 kg/m <sup>3</sup> |
| Dynamic viscosity at 20 °C:                  | Not available *        |
| Kinematic viscosity at 20 °C:                | Not available *        |
| Kinematic viscosity at 40 °C:                | Not available *        |
| Concentration:                               | Not available *        |
| pH:                                          | Not available *        |
| Relative vapour density:                     | 1,38                   |
| Partition coefficient n-octanol/water 20 °C: | Not available *        |
| Solubility in water at 20 °C:                | Approx. 61 mg/L        |
| Solubility properties:                       | Not available *        |
| Decomposition temperature:                   | Not available *        |

\*Not available due to the nature of the product, not providing information property of its hazards.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)**

Melting point/freezing point: -189,3 °C

**Flammability:**

Flash Point: Non Flammable

Flammability (solid, gas): Not available \*

Autoignition temperature: Not available \*

Lower flammability limit: Not available \*

Upper flammability limit: Not available \*

**Particle characteristics:**

Median equivalent diameter: Not available \*

**9.2 Other information:**
**Information with regard to physical hazard classes:**

Explosive properties: Not available \*

Oxidising properties: Not oxidizing

Corrosive to metals: Not available \*

Heat of combustion: Not available \*

Expansion Ratio: 1L liquid ≈ 847 L gas\*

**Other safety characteristics:**

Critical temperature : -122,4 °C

Critical pressure: 48,7 bar

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

\*Not available due to the nature of the product, not providing information property of its hazards.

**SECTION 10: STABILITY AND REACTIVITY**
**10.1 Reactivity:**

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7

**10.2 Chemical stability:**

Chemically stable under the indicated conditions of storage, handling and use. Materials such as carbon steel, low-alloy carbon steel, and plastics become brittle at low temperatures and are prone to breakage/damage. Use suitable materials that are compatible with cryogenic (extremely low temperature) conditions

**10.3 Possibility of hazardous reactions:**

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

**10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

| Shock and friction  | Contact with air | Increase in temperature | Sunlight            | Humidity                     |
|---------------------|------------------|-------------------------|---------------------|------------------------------|
| Danger of explosion | Precaution       | Not applicable          | Avoid direct impact | Avoid humidity in the system |

**10.5 Incompatible materials:**

| Acids              | Water          | Oxidising materials | Combustible materials | Others                        |
|--------------------|----------------|---------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Not applicable      | Not applicable        | Avoid alkalis or strong bases |

**10.6 Hazardous decomposition products:**

Not available

**SECTION 11: TOXICOLOGICAL INFORMATION**
**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:**

It is non-toxic. It can reduce the oxygen concentration and produce a suffocating effect.

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### SECTION 11: TOXICOLOGICAL INFORMATION (continued)

#### Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

##### A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for consumption. For more information see section 3
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

##### B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

##### C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Contact with liquefied gas may cause frostbite, in some cases with tissue injuries.
- Contact with the eyes: Contact with liquefied gas can cause frostbite with redness, blurred vision and eye damage.

##### D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
- IARC: Not available
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

##### E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

##### F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

##### G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

##### H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

#### Specific toxicology information on the substances:

| Identification | Acute toxicity        |             | Genus |
|----------------|-----------------------|-------------|-------|
| Argon          | LD50 oral             | >2000 mg/kg |       |
| CAS: 7440-37-1 | LD50 dermal           | >2000 mg/kg |       |
| EC: 231-147-0  | LC50 inhalation gases | >20000 mg/L |       |

#### 11.2 Information on other hazards:

##### Endocrine disrupting properties

Endocrine-disrupting properties: The product does not meet the criteria.

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**SECTION 11: TOXICOLOGICAL INFORMATION (continued)**
**Other information**

Not available

**SECTION 12: ECOLOGICAL INFORMATION**

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

**12.1 Toxicity:**

Not available

**12.2 Persistence and degradability:**

Not available

**12.3 Bioaccumulative potential:**

Not available

**12.4 Mobility in soil:**

Not available

**12.5 Results of PBT and vPvB assessment:**

Product does not meet PBT/vPvB criteria

**12.6 Endocrine disrupting properties:**

Endocrine-disrupting properties: The product does not meet the criteria.

**12.7 Other adverse effects:**

Not described

**SECTION 13: DISPOSAL CONSIDERATIONS**
**13.1 Waste treatment methods:**

| Code | Description  | Waste class (Regulation (EU) No 1357/2014) |
|------|--------------|--------------------------------------------|
|      | Not relevant | -                                          |

 Refer to the EIGA code of practice Doc.30 "Disposal of Gases", downloadable at <http://www.eiga.org> for more guidance on suitable disposal methods.

**Type of waste (Regulation (EU) No 1357/2014):**

-

**Waste management (disposal and evaluation):**

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC, The Waste Regulations 2011, 2011 No. 988). As under 15 01 (2014/955/EU) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

**Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

**SECTION 14: TRANSPORT INFORMATION**
**Transport of dangerous goods by land:**

With regard to ADR 2025 and RID 2025:

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**SECTION 14: TRANSPORT INFORMATION (continued)**


|                                                                      |                            |
|----------------------------------------------------------------------|----------------------------|
| <b>14.1 UN number or ID number:</b>                                  | UN1951                     |
| <b>14.2 UN proper shipping name:</b>                                 | ARGON, REFRIGERATED LIQUID |
| <b>14.3 Transport hazard class(es):</b>                              | 2                          |
| Labels:                                                              | 2.2                        |
| <b>14.4 Packing group:</b>                                           | N/A                        |
| <b>14.5 Environmental hazards:</b>                                   | No                         |
| <b>14.6 Special precautions for user</b>                             |                            |
| Special regulations:                                                 | -                          |
| Tunnel restriction code:                                             | C/E                        |
| Physico-Chemical properties:                                         | see section 9              |
| Limited quantities:                                                  | 120 mL                     |
| <b>14.7 Maritime transport in bulk according to IMO instruments:</b> | Not available              |

**Transport of dangerous goods by sea:**

With regard to IMDG 42-24:



|                                                                      |                            |
|----------------------------------------------------------------------|----------------------------|
| <b>14.1 UN number or ID number:</b>                                  | UN1951                     |
| <b>14.2 UN proper shipping name:</b>                                 | ARGON, REFRIGERATED LIQUID |
| <b>14.3 Transport hazard class(es):</b>                              | 2.2                        |
| Labels:                                                              | 2.2                        |
| <b>14.4 Packing group:</b>                                           | N/A                        |
| <b>14.5 Marine pollutant:</b>                                        | No                         |
| <b>14.6 Special precautions for user</b>                             |                            |
| Special regulations:                                                 | -                          |
| EmS Codes:                                                           | F-C, S-V                   |
| Physico-Chemical properties:                                         | see section 9              |
| Limited quantities:                                                  | 120 mL                     |
| Segregation group:                                                   | Not available              |
| <b>14.7 Maritime transport in bulk according to IMO instruments:</b> | Not available              |

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2026:



|                                                                      |                            |
|----------------------------------------------------------------------|----------------------------|
| <b>14.1 UN number or ID number:</b>                                  | UN1951                     |
| <b>14.2 UN proper shipping name:</b>                                 | ARGON, REFRIGERATED LIQUID |
| <b>14.3 Transport hazard class(es):</b>                              | 2.2                        |
| Labels:                                                              | 2.2                        |
| <b>14.4 Packing group:</b>                                           | N/A                        |
| <b>14.5 Environmental hazards:</b>                                   | No                         |
| <b>14.6 Special precautions for user</b>                             |                            |
| Physico-Chemical properties:                                         | see section 9              |
| <b>14.7 Maritime transport in bulk according to IMO instruments:</b> | Not available              |

**SECTION 15: REGULATORY INFORMATION**
**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

- Article 95, REGULATION (EU) No 528/2012: Not available
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not available
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not available
- Regulation (EU) 2019/1021 on persistent organic pollutants: Not available
- Regulation (EU) 2024/590, about substances that deplete the ozone layer: Not available
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not available

**Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):**

Not available

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### SECTION 15: REGULATORY INFORMATION (continued)

#### Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

#### Other legislation:

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (CDG 2009), SI 2009 No 1348  
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (Amendment) Regulations 2011, 2011 No. 1885  
Control of Substances Hazardous to Health Regulations 2002 (as amended)  
EH40/2005 Workplace exposure limits  
The Waste Regulations 2011, 2011 No. 988

#### 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

### SECTION 16: OTHER INFORMATION

#### Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878)

#### Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

Not available

#### Texts of the legislative phrases mentioned in section 2:

H281: Contains refrigerated gas, may cause cryogenic burns or injury.

#### Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

#### CLP Regulation (EC) No 1272/2008:

Press. Gas (Ref. Liq.): H281 - Contains refrigerated gas, may cause cryogenic burns or injury.

#### Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

#### Principal bibliographical sources:

<http://echa.europa.eu>  
<http://eur-lex.europa.eu>

#### Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road  
IMDG: International maritime dangerous goods code  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organisation  
COD: Chemical Oxygen Demand  
BOD5: 5day biochemical oxygen demand  
BCF: Bioconcentration factor  
LD50: Lethal Dose 50  
LC50: Lethal Concentration 50  
EC50: Effective concentration 50  
LogPOW: Octanolwater partition coefficient  
Koc: Partition coefficient of organic carbon  
UFI: unique formula identifier  
IARC: International Agency for Research on Cancer

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- END OF SAFETY DATA SHEET -