



## Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 29.09.2025

Version number 2.00 (replaces version 1.00)

Revision: 29.09.2025

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

- **Product identifier**
- **Trade name:** Argon
- **Article number:** 9001
- **CAS Number:**  
7440-37-1
- **EC number:**  
231-147-0
- **Registration number** The substance is exempt from REACH-registration.
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Protection gas for pharmaceutical formulations.
- **Uses advised against** No relevant information available.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
CAELO  
Caesar & Loretz GmbH  
Herderstr. 31  
D-40721 Hilden  
GERMANY
- **Further information obtainable from:**  
E-mail: info@caelo.de  
Tel.: +49210349940 (during regular opening hours)
- **Emergency telephone number:**  
Poison Information Center Bonn  
Venusberg-Campus 1, 53127 Bonn  
Tel: +49 (0) 228-192400

### 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
Press. Gas (Comp.) H280 Contains gas under pressure; may explode if heated.
- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS04

- **Signal word** Warning

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- **Hazard statements**  
H280 Contains gas under pressure; may explode if heated.
- **Precautionary statements**  
P410+P403 Protect from sunlight. Store in a well-ventilated place.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Determination of endocrine-disrupting properties** Not applicable.

### 3 Composition/information on ingredients

- **Substances**
- **CAS No. Description**  
CAS: 7440-37-1 argon
- **Identification number(s)**
- **EC number:** 231-147-0

### 4 First aid measures

- **Description of first aid measures**
- **After inhalation:** Fresh air. If irritation of respiratory ways continues seek medical advice.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
Water spray  
Foam  
Sand  
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Firmly waterspray
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** In case of fire wear suitable protective clothes and respiratory protection.
- **Additional information**  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

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### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation  
Do not smoke when handling the product
  - **Environmental precautions:**  
In case of gas release or seepage into the ground inform responsible authorities.
  - **Methods and material for containment and cleaning up:** No special measures required.
  - **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- 

### 7 Handling and storage

- **Precautions for safe handling**  
Keep receptacles tightly sealed.  
Avoid product leakage into the atmosphere
  - **Information about fire - and explosion protection:** No special measures required.
  - **Conditions for safe storage, including any incompatibilities**
  - **Storage:**
  - **Requirements to be met by storerooms and receptacles:**  
Observe official regulations on storing packagings with pressurised containers.  
Store containers below 50 ° C
  - **Information about storage in one common storage facility:** Store away from flammable substances.
  - **Further information about storage conditions:**  
Keep away from heat sources.  
Keep away from ignition sources.
  - **Storage class:** TRHS 510: 2A Gases
  - **Specific end use(s)** No further relevant information available.
- 

### 8 Exposure controls/personal protection

- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
**CAS: 7440-37-1 argon**  
OEL Asphx
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Dust protection mask.
- **Hand protection** Protective gloves

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**· Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

**· Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**· Eye/face protection** Tightly sealed goggles

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### 9 Physical and chemical properties

**· Information on basic physical and chemical properties****· General Information****· Physical state**

Liquid

**· Colour:**

Colourless

**· Odour:**

Characteristic

**· Odour threshold:**

Not determined.

**· Melting point/freezing point:**

-189.2 °C

**· Boiling point or initial boiling point and boiling range**

-185.9 °C

**· Flammability**

Not applicable.

**· Lower and upper explosion limit****· Lower:**

Not determined.

**· Upper:**

Not determined.

**· Flash point:**

Not applicable.

**· Decomposition temperature:**

Not determined.

**· pH**

Not determined.

**· Viscosity:****· Kinematic viscosity**

Not determined.

**· Dynamic:**

Not determined.

**· Solubility****· water:**

Not miscible or difficult to mix.

**· Partition coefficient n-octanol/water (log value)**

Not determined.

**· Vapour pressure:**

Not determined.

**· Density and/or relative density****· Density at 20 °C:**0.00178 g/cm<sup>3</sup>**· Relative density**

Not determined.

**· Vapour density**

Not determined.

**· Other information****· Appearance:****· Form:**

Fluid

**· Important information on protection of health and environment, and on safety.****· Ignition temperature:**

Not determined.

**· Explosive properties:**

Not determined.

**· Change in condition****· Evaporation rate**

Not determined.

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**· Information with regard to physical hazard classes**

· Explosives	Void
	Void
· Flammable gases	Void
	Void
· Aerosols	Void
	Void
· Oxidising gases	Void
	Void
· Gases under pressure	Contains gas under pressure; may explode if heated.
	Void
· Flammable liquids	Void
	Void
· Flammable solids	Void
	Void
· Self-reactive substances and mixtures	Void
	Void
· Pyrophoric liquids	Void
	Void
· Pyrophoric solids	Void
	Void
· Self-heating substances and mixtures	Void
	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
	Void
· Oxidising liquids	Void
	Void
· Oxidising solids	Void
	Void
· Organic peroxides	Void
	Void
· Corrosive to metals	Void
	Void
· Desensitised explosives	Void
	Void

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## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid**  
High temperature.  
low temperature

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- **Incompatible materials:**
    - strong bases
    - strong oxidizing agents
  - **Hazardous decomposition products:** No dangerous decomposition products known.
- 

## 11 Toxicological information

- **Information on hazard classes as defined in Regulation (EC) No 1272/2008**
  - **Acute toxicity** Based on available data, the classification criteria are not met.
  - **Primary irritant effect:**
  - **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
  - **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
  - **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
  - **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
  - **Carcinogenicity** Based on available data, the classification criteria are not met.
  - **Reproductive toxicity** Based on available data, the classification criteria are not met.
  - **STOT-single exposure** Based on available data, the classification criteria are not met.
  - **STOT-repeated exposure** Based on available data, the classification criteria are not met.
  - **Aspiration hazard** Based on available data, the classification criteria are not met.
  - **Information on other hazards**
  - **Endocrine disrupting properties**

On the basis of the available data, the substance does not meet the criteria for the identification of substances having properties of interference with the endocrine system, in accordance with Article 59, paragraph 1 of the REACH Regulation and the criteria established in the Delegated Regulation (EU) 2017 / 2100 of the Commission or in Commission Regulation (EU) 2018/605.
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## 12 Ecological information

- **Toxicity**
  - **Aquatic toxicity:** No further relevant information available.
  - **Persistence and degradability** No further relevant information available.
  - **Bioaccumulative potential** No further relevant information available.
  - **Mobility in soil** No further relevant information available.
  - **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.
  - **Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.
  - **Other adverse effects**
  - **Additional ecological information:**
  - **General notes:** Not hazardous for water.
- 

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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- **Uncleaned packaging:**
  - **Recommendation:** Disposal must be made according to local regulations.
- 

### 14 Transport information

- **UN number or ID number** UN1950
  - **ADR, IMDG, IATA**
  - **UN proper shipping name** 1950 AEROSOLS
  - **ADR** AEROSOLS
  - **IMDG** Aerosols
  - **IATA**
  - **Transport hazard class(es)**
  - **ADR**
  - **Class** 2 5A Gases.
  - **Label** 2.2
- 
- **IMDG, IATA**
  - **Class** 2 Gases.
  - **Label** 2.2
  - **Packing group**
  - **ADR, IMDG, IATA** not regulated
  - **Environmental hazards:** Not applicable.
  - **Special precautions for user** Warning: Gases.
  - **Hazard identification number (Kemler code):** -
  - **EMS Number:** F-D,S-U
  - **Maritime transport in bulk according to IMO instruments** Not applicable.
  - **Transport/Additional information:**
- 
- **ADR**
  - **Limited quantities (LQ)** 1L
  - **Transport category** 3
  - **Tunnel restriction code** E
- 
- **IMDG**
  - **Limited quantities (LQ)** 1L
  - **UN "Model Regulation":** UN 1950 AEROSOLS, 2.2
- 

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Named dangerous substances - ANNEX I** Substance is not listed.
- **LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)** Not listed
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Not listed
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II** Substance is not listed.

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- **National regulations:**
- **Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany)**  
TRHS 510: 2A Gases
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

The information provided is based on our current level of knowledge. This MSDS has been compiled and is exclusively for this product intended.

- **Reasons for alterations** This version replaces all old versions.
- **Version number of previous version:** 1.00
- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Press. Gas (Comp.): Gases under pressure – Compressed gas