



# Material Safety Data Sheet: Argon

BS ISO 14520 (2000) Designation: IG-01

Unit 14, The Homeground, Buckingham Industrial Park, Buckingham. MK18 1UH  
Tel: 0870 4422 644 Fax: 0870 4422 645 Email: [info@fireprosystems.co.uk](mailto:info@fireprosystems.co.uk)

## 1 Identification of the substance/preparation and of the company.

**Product Name:** Argon, compressed  
**Chemical Formula:** Ar  
**Company Identification:** Linde AG, Werksgruppe Technische Gase, Seitnerstraße 70, D-82049, Höllriegelskreuth.  
**Emergency phone Number:** 089-7446-0

## 2 Composition/Information on Ingredients

**Substance/Preparation:** Substance.  
**Components/Impurities:** Contains no other components or impurities which will influence the classification of the product.  
**CAS Nr:** 07440-37-1  
**EEC Nr (from EINECS):** 231-147-0

## 3 Hazards Identification

**Hazards Identification:** Compressed gas. In high concentrations may cause asphyxiation.

## 4 First Aid Measures

**Inhalation:** In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Remove victim to uncontaminated area wearing self-contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.

## 5 Fire Fighting Measures

**Specific Hazards:** Exposure to fire may cause containers to rupture/explode. Non flammable.  
**Hazardous combustion products:** None  
**Suitable extinguishing media:** All known extinguishing agents can be used.  
**Specific methods:** If possible stop flow of product. Move container away or cool with water from a protected position.  
**Special protective equipment for fire fighters:** In confined spaces use self-contained breathing apparatus.

## 6 Accidental Release Measures

**Personal precautions:** Evacuate area. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Ensure adequate air ventilation.  
**Environmental Precautions:** Try to stop release. Prevent from entering sewers, basements and work pits, or any place where its accumulation can be dangerous.  
**Clean up methods:** Ventilate area.

## 7 Handling and storage

**Handling and storage:** Suck back of water into the container must be prevented. Do not allow back feed into the container. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Refer to suppliers container handling instructions. Keep container below 50 °C in a well ventilated place.

## 8 Exposure Control/Personal Protection

**Personal protection:** Ensure adequate ventilation.

## 9 Physical And Chemical Properties

**Molecular weight:** 40  
**Melting point:** -189 °C  
**Boiling points:** -186 °C  
**Critical temperature:** -122 °C  
**Relative density, gas:** 1.38(air=1)  
**Relative density liquid:** Not applicable  
**Vapour pressure 20 °C:** Not applicable  
**Solubility mg/l water:** 61 mg/l  
**Appearance/ Colour:** Colourless gas  
**Odour:** No odour warning properties.  
**Other data:** Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

## 10 Stability And Reactivity

**Stability and reactivity:** Stable under normal conditions.

## 11 Toxicological Information

**General:** No known toxicological effects from this product.

## 12 Ecological Information

**General:** No known ecological damage caused by this product.

## 13 Disposal Considerations

**General:** Do not discharge into any place where its accumulation could be dangerous. To atmosphere in a well ventilated place. Contact supplier if guidance is required.

## 14 Transport Information

**Proper Shipping Name:** Argon, Compressed.  
**UN Nr:** 1006  
**Class/Div:** 2.2



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**ADR/RID Item Nr:** 2, 1 A

**Labelling ADR:** Label 2, non flammable non toxic gas

**ADR/RID Hazard Nr:** 20

**CEFIC Groupcard Nr:** 20g01

**Other transport information:** 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 that they are firmly secured and:

- ▶ cylinder valve is closed and not leaking
- ▶ valve outlet cap nut or plug (where provided) is correctly fitted
- ▶ valve protection device (where provided) is correctly fitted
- ▶ adequate ventilation.
- ▶ compliance with applicable regulations

## 15 Regulatory Information

**Number in Annex I of Dir 67/548:** Not Included in Annex I

**EC Classification:** Proposed by the industry: Not classified as dangerous substance

**Labelling of cylinders:**

- ▶ **Symbols:** No symbol required
- ▶ **Risk Phrases:** RAs asphyxiant in high concentrations.
- ▶ **Safety phrases:** S9 Keep container in well ventilated place. S23 Do not breathe the gas.

## 16 Other Information

Ensure all national/local regulations are observed. The hazard of asphyxiation is often overlooked and must be stressed during operator training. 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.