



# Safety Data Sheet

Revision n. 04  
Date of issue 01/03/2014

## ARGON/CARBON DIOXIDE

### Section 3: Composition / information on ingredients

#### 3.1 Substance

IUPAC name	Substance number	CAS number	EINECS number	Conc. %	DSP Classification	CLP Classification
Argon	--	7440-37-1	231-147-0	86	No classified	Press.Gas Compressed (H280)
Carbon Dioxide	--	124-38-9	204-696-9	14	No classified	Press.Gas Liquefied (H280)

Contains no other components or impurities which will influence the classification of the product.

### Section 4: First aid measures

#### 4.1 Description of first aid measures

Immediately seek medical advice

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

##### Skin contact:

Not expected to present a significant skin hazard under anticipated conditions of normal use.

##### Eyes contact:

Not expected to present a significant eyes hazard under anticipated conditions of normal use.

##### 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.

### Section 5: Fire-fighting measures

#### 5.1 Exhtiguishing media

All known extiguishants can be used.

#### 5.2 Special hazards arising from the substance or mixture

Fire exposure can cause containers to rupture/explode

#### 5.3 Special protective equipment for fire fighters

In confined space use self-contained breathing apparatus

#### 5.4 Advice for fire-fighters

Move away from the container and cool with water from a protected position.

If possible, stop flow of products

### Section 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Evacuated unnecessary personnel.

Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.

Ensure adequate air ventilation.

#### 6.2 Environmental precautions

Try to stop release.

Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous

#### 6.3 Methods and material for containment and cleaning up

If the loss is referring to a mobile container and it cannot be stopped, transport the mobile container to an open area and empty it in the atmosphere.

Ventilated area.

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### Section 7: Handling and storage

#### 7.1 Precautions for safe handling

Do not eat, drink and/or smoke in the working areas or plants .  
 For container handling, use proper personal protective equipment such as safety shoes and gloves.  
 Do not allow backfeed into the container.  
 Suck back of water into the container must be prevented.  
 Use only properly specified equipments which are suitable for this product.  
 Open slowly the valve to avoid pressure blows .  
 Avoid the direct contact of the product.  
 Handle carefully the contains, thus avoiding violent collisions between them or against other surfaces, as well as falls and other mechanical strains susceptible to damage their integrity/resistance.  
 Contact your supplier if in doubt.

#### 7.2 Condition for safe storage, including any incompatibilities

Keep container below 50°C in a well ventilated place.  
 Avoid against collisions.

### Section 8: Exposure controls/personal protection

#### 8.1 Control parameters

8.1.1 Carbon dioxide	Threshold limit values (IT) or hours (ppm):	5000
	Threshold limit values (IT) or hours (mg/m <sup>3</sup> ):	9000

#### 8.2 Exposure controls

8.2.1 Avoid under-oxygenated atmospheres (O<sub>2</sub><18%). In high concentrations may cause asphyxiation.  
 Ensure suitable ventilation.  
 Ensure skin and eyes protection appropriate to the conditions of use.

8.2.2 Skin/face protection: Use safety glasses and face shield in accordance with EN 166  
 Hand protection: Use guantlet according to EN 388  
 Respiratory protection: No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.  
 In case of release, please refer to the point 6.1

### Section 9: Physical and chimica protections

#### 9.1 Information on basic physical and chemical properties

Physical state at 20°C/101.3kPa	Gas
Odour	Odourless
Colour	Colourless
Relative density, gas (air=1)	Lighter or similar to air
Solubility in water (mg/l)	Argon: 61 Carbon dioxide: 2000

#### 9.2 Other information

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

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**Section 10: Stability and reactivity**

10.1	Reactivity Inert gas
10.2	Chemical stability Stable under normal conditions
10.3	Possibility of hazardous reactions No hazardous reaction expected
10.4	Conditions to avoid Avoid sources of heat/ sparks/ flames and hot surfaces; No smoking
10.5	Incompatible materials None
10.6	Hazardous decomposition products None

**Section 11: Toxicological information**

11.1	Information of toxicological effects No known toxicological effects from this product
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**Section 12: Ecological information**

12.1	Toxicity No known ecological damage caused by this product
12.2	Persistence and degradability No data available
12.3	Biaccumulative potential No data available
12.4	Mobility in soil No data available
12.5	Results of PBT and vPvB assessment It is not requested a chemical safety report
12.6	Other advers effects No data available

**Section 13: Disposal considerations**

13.1	Waste treatment methods The waste treatment methods have to be verified everytime with reference to the waste composition, National and EC standards in force. The gas cylinders are not refillable. The handling and precautions in case of accidental waste, please refer to the a/m points 6 and 7. Actions or precautions must be verified accordingly to the waste composition.
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<b>Section 14: Transport information</b>	
14.1	UN Number UN 1956
14.2	UN proper shipping name ARGON, COMPRESSED N.O.S.
14.3	Transport hazard class 2
14.3	Lable 2.2
14.4	Packing group Not applicable
14.5	Sea transport EMS: F-C, S-V Proper Shipping name: ARGON, COMPRESSED N.O.S.
14.6	Air transport: Cargo           Packing instruction: 200 Max. quantity: 150kg  Passengers       Packing instruction: 200 Max. quantity: 75kg ERG Code: 2L
14.7	Environmental hazards No available data
14.8	Special precautions for users Avoid transports on vehicle where the loading area is not separated from the cabin. Assure that the drivers knows the potential dangers of the loading and he is able to operate in case of emergency.
14.9	Transport in bulk according to Annex II of MARPOL 73/78 and IB code Not applicable

<b>Section 15: Regulatory information</b>	
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture Ensure all National/local regulations are observed. Seveso regulation 96/82/EC and Dir 105/2003/CE and D.Lgs.334/99 and s.m.i: not covered.
15.2	Chemical safety assessment. It is not requested a chemical safety report

<b>Section 16: Other information</b>	
<p>GENERAL BIBLIOGRAPHY:</p> <ol style="list-style-type: none"> <li>1. (EC) Regulation no. 1907/2006 of the European Parliament (REACH)</li> <li>2. (EC) Regulation no. 1272/2008 of the European Parliament (CLP)</li> <li>3. Assogastecnici Guide – May 2010 edition</li> <li>4. ESIS : European chemical Substances Information System</li> </ol> <p>Remark for the User: The information on this sheet is based on the available knowledge at the time of our last revision. The user must make sure that information is appropriate and complete for the specific product destination. This document cannot be considered as a warranty for specific properties of the product. As product use does not fall on our direct control, the user must bear full responsibility for complying with all the rules and regulations in force relating to hygiene and safety. We disclaim any responsibility for improper uses.</p>	