

	<b>Safety Data Sheet</b>	Revision n. 05 Date of issue 12/01/2015
	<b>ARGON, COMPRESSED</b>	

### Section 1: Identification of the substance/ mixture and of the Company

#### 1.1 Identification of the substance or mixture

IUPAC name	ARGON
Synonym	--
CAS n°	7440-37-1
EINECS n°	231-147-0
Number of the substance	--
Number of registration	Free from the recording obligation according to the enclosures IV and V of the (EC) regulation nr. 1907/2006 (Reach)

#### 1.2 Use of the substance/mixture

Technical gas – industrial use. Welding applications.

#### 1.3 Company identification

Corporate name  
Address  
City and Country  
Phone number  
Fax number  
E-mail address

#### 1.4 Phone number for urgent calls

(working hours)

### Section 2: Classification of the substance and mixture

#### 2.1 Classification of the substance or mixture

Classification under (EC) Regulation no. 1272/2008:	GAS UNDER PRESSION – PRESSURIZED GAS – <b>WARNING</b>
Classification under Directive no. 67/548/CEE:	PRODUCT NOT CLASSIFIED AMONG THE DANGEROUS ONES

#### 2.2 Label elements

Hazard pictograms:



Signal words:

Warning

Hazard statements:

H280:

Contains gas under pressure; may explode if heated

Precautionary statements:

P410 + P403:

Protect from sunlight. Store in a well-ventilated place

Danger symbols under the Directive no.67/578/CEE

"R" Phrases

None

"S" Phrases

None

Supplemental information

ADR symbols



Label No 2.2

#### 2.3 Other dangerous

None

### Section 3: Composition / information on ingredients

#### 3.1 Substance

IUPAC name	Substance number	CAS number	EINECS number	Concentration
argon	--	7440-37-1	231-147-0	≥ 99,99%
Contains no other components or impurities which will influence the classification of the product.				

	<b>Safety Data Sheet</b>	Revision n. 05 Date of issue 12/01/2015
	<b>ARGON, COMPRESSED</b>	

#### 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 realease 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 adeguate 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  
Ventilated area.

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



	<b>Safety Data Sheet</b>	Revision n. 05 Date of issue 12/01/2015
	<b>ARGON, COMPRESSED</b>	

### Section 8: Exposure controls/personal protection

8.1	Control parameters	
8.1.1	Threshold values	Not available
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	
	Molecular weight	40 g/mole
	Melting point	-189°C (1,013 bar)
	Boiling point	-186°C (1,013 bar)
	Critical temperature	-122°C
	Relative density, gas (air=1)	1,4
	Solubility in water (mg/l)	61 (15 °C; 1,013 bar)
	Colour	Colourless
	Odour	No odour warning properties
	Auto-ignition temperature	Not applicable
	Other data	Not flammable
9.2	Other information	
	Gas/vapour heavier than air. May accumulate in confined areas, particularly at ground or below ground level.	

### 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	

	<b>Safety Data Sheet</b>	Revision n. 05 Date of issue 12/01/2015
	<b>ARGON, COMPRESSED</b>	

### 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 Bioaccumulative 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 adverse 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 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.

### Section 14: Transport information

- 14.1 UN Number  
UN 1006
- 14.2 UN proper shipping name  
ARGON, COMPRESSED
- 14.3 Transport hazard class  
2
- 14.3 Label  
2.2
- 14.4 Packing group  
Not applicable
- 14.5 Sea transport  
EMS: F-C, S-V  
Proper Shipping name: ARGON, COMPRESSED
- 14.6 Air transport:
- |            |   |
|------------|---|
| Cargo      | Packing instruction: 200<br>Max. quantity: 150kg                |
| Passengers | Packing instruction: 200<br>Max. quantity: 75kg<br>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>Safety Data Sheet</b>	Revision n. 05 Date of issue 12/01/2015
	<b>ARGON, COMPRESSED</b>	

### Section 15: Regulatory information

- 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: not covered.
- 15.2 Chemical safety assessment.  
It is not requested a chemical safety report

### Section 16: Other information

- 16.1 Revision of safety data sheet  
Date of revision: January 2015 – Revision:5  
Section revised
- |     |                |             |
|-----|----------------|-------------|
| 1.3 | e-mail address | Type        |
| 2.2 | Label elements | modify      |
|     |                | In addition |
- 16.2 GENERAL BIBLIOGRAPHY:
- (EC) Regulation no. 1907/2006 of the European Parliament (REACH)
  - (EC) Regulation no. 1272/2008 of the European Parliament (CLP)
  - The Merck Index. Ed. 10
  - Handling Chemical Safety
  - Niosh - Registry of Toxic Effects of Chemical Substances
  - INRS - Fiche Toxicologique
  - Patty - Industrial Hygiene and Toxicology
  - N.I. Sax - Dangerous properties of Industrial Materials-7 Ed., 1989
- 16.3 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.