

Safety Data Sheet

Argon Gas Cylinder

Part No: 1369


Date: 27/08/2020

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Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier	
IUPAC Nomenclature	ARGON
Synonyms	--
CAS number	7440-37-1
EINECS number	231-147-0
Index number	Not included in Annex VI
Registration number	This substance is exempted from Registration according to the provisions of Article 2(7)(a) and Annex IV of REACH
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Relevant identified uses: technical gas - industrial use. Welding applications	
Uses advised against: all those not identified as relevant.	
1.3 Details of the supplier of the safety data sheet	
Supplier	EUROTRE S.r.l.
Street address	Via A. Volta, 12/13
Country	42024 CASTELNOVO SOTTO (RE) – ITALY
Telephone number	+39 0522 485054
Fax	+39 0522 964554
e-mail address	hsse@eurotre.re.it
1.4 Emergency telephone number	
+39 0522 485054	(working hours)

Section 2: Hazards identification

2.1 Classification of the substance or mixture	
Classification according to Regulation (EC) No 1272/2008 [CLP]	
Press. Gas, H280	
2.2 Label elements	
Hazard pictogram(s)	
Signal word	Warning
Hazard statement(s)	H280: Contains gas under pressure; may explode if heated
Precautionary statement(s)	P410 + P403: Protect from sunlight. Store in a well-ventilated place
2.3 Other hazards	
Do not expose to temperatures exceeding 50°C/ 122°F.	

Section 3: Composition/information on ingredients

3.1 Substances	
IUPAC Nomenclature	argon
Index number	Not included in Annex VI
CAS number	7440-37-1
EINECS number	231-147-0
Concentration:	≥ 99,99%
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	
Do not give anything by oral to the victim.	
Evacuate the victim from the danger area to a ventilated area.	
- Inhalation: Remove victim to uncontaminated area wearing self contained breathing apparatus. Call a doctor. Apply oxygen or artificial respiration if breathing stopped.	
- Skin contact: not expected to present a significant skin hazard under anticipated conditions of normal use	
- Eyes contact: not expected to present a significant skin hazard under anticipated conditions of normal use	
- Ingestion: is not considered a potential route of exposure	
4.2 Most important symptoms and effects, both acute and delayed	
In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Remove victim to uncontaminated area wearing self contained breathing apparatus. Apply artificial respiration if breathing stopped.	
4.3 Indication of any immediate medical attention and special treatment needed	
For any doubt or persistent symptoms, call a doctor.	

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Section 5: Firefighting measures

- 5.1 Extinguishing media
All known extinguishing can be used.
- 5.2 Special hazards arising from the substance or mixture
Fire exposure can cause the breaking and explosion of the cylinder(s).
- 5.3 Advice for firefighters
In confined space use self-contained breathing apparatus
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.
Ensure adequate air ventilation.
Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.
- 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 cylinder loss and it can not be stopped, bring the cylinder outdoors, in a ventilated area, and after that empty it in the atmosphere.
- 6.4 Reference to other sections
For information regarding personal protection and disposal considerations see section 8 and 13.

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 back feed into the cylinder.
Suck back of liquids 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 cylinders, 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 Conditions for safe storage, including any incompatibilities
Cylinders should not be stored in conditions likely to encourage corrosion.
Store cylinders in location free from fire risk and away from sources of heat and ignition.
Keep cylinders below 50°C in a well ventilated place.
- 7.3 Specific end use(s).
Technical gas - industrial use. Welding applications.

Section 8: Exposure controls/personal protection

- 8.1 Control parameters
- 8.1.1 Threshold values: n.a.
- 8.2 Exposure controls
- 8.2.1 Avoid under-oxygenated atmospheres (O₂<18%). In high concentrations may cause asphyxiation.
Ensure suitable ventilation.
Ensure skin and eyes protection appropriate to the conditions of use.
- 8.2.2 Eye/face protection: Use safety glasses and face shield in accordance with EN 166
Skin protection: Use gloves 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

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Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Colorless gas
b)	Odour	Odorless
c)	Odour threshold	Odour threshold is subjective and is inadequate to warn of over exposure.
d)	pH	Not applicable
e)	Melting point / freezing point	-189,34 °C
f)	Initial boiling point and boiling range	-186 °C (1,013 bar)
g)	Flash point	Not applicable to gases and gas mixture.
h)	Evaporation rate	Not applicable to gases and gas mixture.
i)	Flammability (solid, gas)	No flammable
j)	Upper/lower flammability or explosive limits	Not applicable
k)	Vapour pressure	Not applicable
l)	Vapour density	5.7722 kg/m ³ (1.013 bar at boiling point) 1.6903 kg/m ³ (1.013 bar at 15 °C)
m)	Relative density (air=1)	1,38
n)	Solubility(ies)	67 mg/l (15 °C; 1,013 bar)
o)	Partition coefficient: n-octanol/water	Not available
p)	Auto-ignition temperature	Not applicable
q)	Decomposition temperature	Not applicable
r)	Viscosity	2.1017E-04 Poise (1.013 bar e 0 °C)
s)	Explosive properties	No explosive
t)	Oxidising properties	Not applicable

9.2 Other information

Critical temperature: -122.46 °C
 Critical pressure: 48.63 bar
 Critical density: 535.6 kg/m³
 Triple point temperature: -189.34 °C
 Triple point pressure: 0.687 bar

Gas 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.
 No reactivity hazard other than the effects described in sub-section below.

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

None

10.4 Conditions to avoid

Keep away from heat/sparks/open flames/hot surfaces.

10.5 Incompatible materials

No reaction with any common materials in dry or wet conditions.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11: Toxicological information

11.1 Information on toxicological effects

- a) acute toxicity: no known toxicological effects from this product
- b) skin corrosion/irritation: based on available data, the classification criteria are not met.
- c) serious eye damage/irritation: based on available data, the classification criteria are not met.
- d) respiratory or skin sensitisation: based on available data, the classification criteria are not met.
- e) germ cell mutagenicity: based on available data, the classification criteria are not met.
- f) carcinogenicity: based on available data, the classification criteria are not met.
- g) reproductive toxicity: based on available data, the classification criteria are not met.
- h) STOT-single exposure: based on available data, the classification criteria are not met.
- i) STOT-repeated exposure: based on available data, the classification criteria are not met.
- j) aspiration hazard: not applicable to gases and gas mixtures.

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Section 12: Ecological information

- 12.1 Toxicity
No known ecological damage caused by this product.
- 12.2 Persistence and degradability
* This product does not cause any ecological damage.
- 12.3 Bioaccumulative potential
* No data available.
- 12.4 Mobility in soil
Not applicable; the substance is a gas.
- 12.5 Results of PBT and vPvB assessment
Not classified as PBT or vPvB.
- 12.6 Other adverse effects
* None.

Section 13: Disposal considerations

- 13.1 Waste treatment methods
Do not discharge into any place where its accumulation could be dangerous, but in atmosphere or well ventilated area.
Our gas cylinders are not refillable. If your cylinder must be destroyed, consult distributor or supplier for specific recommendations.
Refer to section 6 and 7 for handling and action of inadvertent leakage of the waste.

Section 14: Transport information

- 14.1 UN number
UN 1006
- 14.2 UN proper shipping name
ARGON COMPRESSED
- 14.3 Transport hazard class(es)
2.2
- 14.4 Packing group
n.a.
- 14.5 Environmental hazards
n.a.
- 14.6 Special precautions for user
Avoid transport on vehicles where the load space is not separated from the driver's compartment.
Assure that the drivers knows the potential dangers of the loading and he is able to operate in case of emergency.
Ensure that the cylinders are firmly secured.
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
n.a.
- Additional information
Sea transport
EMS: F-C, S-V
Proper Shipping name: ARGON, COMPRESSED
- Air transport:
- | | |
|-----------|--|
| Cargo | Pkg Inst: 200
Max Net Qty/Pkg: 150kg |
| Passenger | Pkg Inst: 200
Max Net Qty/Pkg: 75kg
ERG Code: 2L |

Section 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Seveso directive 2012/18/UE: not covered.
- 15.2 Chemical safety assessment
A CSA does not need to be carried out for this product

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Section 16: Other information

- * The symbol * indicates that the information has been updated to the current revision.

GENERAL BIBLIOGRAPHY:

1. (EC) Regulation no. 1907/2006 of the European Parliament (REACH)
2. (EC) Regulation no. 1272/2008 of the European Parliament (CLP)
3. Guideline "Assogastecnici" - Edition May 2010
4. ESIS: European chemical Substances Information System

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.

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