

# Safety Data Sheet

## Argon/CO<sub>2</sub> Gas Cylinder

Part No: 1368


Date: 27/08/2020

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

<b>1.1 Product identifier</b>	
IUPAC Nomenclature	MIXTURE ARGON/CARBON DIOXIDE
Synonyms	--
CAS number	n.a. (this is a mixture)
EINECS number	n.a. (this is a mixture)
Index number	n.a. (this is a mixture)
Registration number	The substances that compose the mixture are exempted from Registration according to the provisions of Article 2(7)(a) and Annex IV of REACH
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>	
Relevant identified uses: technical gas - industrial use. Welding applications	
Uses advised against: all those not identified as relevant.	
<b>1.3 Details of the supplier of the safety data sheet</b>	
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
<b>1.4 Emergency telephone number</b>	
+39 0522 485054	(working hours)

### Section 2: Hazards identification

<b>2.1 Classification of the substance or mixture</b>	
Classification according to Regulation (EC) No 1272/2008 [CLP]	
Press. Gas, H280	
<b>2.2 Label elements</b>	
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
<b>2.3 Other hazards</b>	
* Do not expose to temperatures exceeding 50°C/ 122°F.	

### Sezione 3: composizione/informazione sugli ingredienti

<b>3.1 Mixture</b>						
CAS number	EINECS number	Index number	Numero di registrazione REACH	% [by mass]	IUPAC Nomenclature	Classification Regulation (EC) No 1272/2008 (CLP)
7440-37-1	231-147-0	note a	note b	80 ≤ C < 98	ARGON	Press. Gas, H280
124-38-9	204-696-9	note a	note b	2 ≤ C < 20	CARBON DIOXIDE	Liq. Gas, H280
note a: substance exempted from Registration according to the provisions of Article 2(7)(a) and Annex IV of REACH						
note b: substance not included in Annex VI						

### Section 4: First aid measures

<b>4.1 Description of first aid measures</b>	
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 oxyn 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	
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	
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.	
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	
* For any doubt or persistent symptoms, call a doctor.	



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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	Argon: -189,34 °C Carbon dioxide: Sublimation -78,5 °C
f)	Initial boiling point and boiling range	Argon: -186°C (1,013 bar) Carbon dioxide: Sublimation -78,5 °C
* 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	No flammable
k)	Vapour pressure	Not applicable
l)	Vapour density	Argon: 5.7722 kg/m <sup>3</sup> (1.013 bar at boiling point) Argon: 1.6903 kg/m <sup>3</sup> (1.013 bar at 15 °C) Carbon dioxide: 1.8714 kg/m <sup>3</sup> (1.013 bar at 15 °C)
m)	Relative density (air=1)	Argon: 1,38 Carbon dioxide: 1,52
n)	Solubility(ies)	Argon: 67 mg/l (15 °C; 1,013 bar) Carbon dioxide: 1.7163 vol/vol (0 °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	Argon: 2.1017E-04 Poise (1.013 bar e 0 °C) Carbon dioxide: 1.3711E-04 Poise (1.013 bar e 0 °C)
s)	Explosive properties	No explosive
t)	Oxidising properties	Not applicable

#### 9.2 Other information

	Critical temperature (°C)	Critical pressure (bar)	Critical density kg/m <sup>3</sup>	Triple point (temperature)	Triple point (pressure)
Argon	-122.46	48.63	535.6	-189.34 °C	0.687 bar
Carbon dioxide	30,98	73.77	467.6	-56.56 °C	5.187 bar

### 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  
No data available.
- 12.3 Bioaccumulative potential  
\* The product is expected to biodegrade and is not expected to persist for long periods in an aquatic environment.
- 12.4 Mobility in soil  
\* The substance is a gas, not applicable.
- 12.5 Results of PBT and vPvB assessment  
\* Not classified as PBT or vPvB.
- 12.6 Other adverse effects  
\* No ecological damage caused by this product.

### 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 1956
- 14.2 UN proper shipping name  
COMPRESSED GAS, N.O.S. (Argon / Carbon dioxide)
- 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: COMPRESSED GAS, N.O.S. (Argon / Carbon dioxide)

##### 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
5. European Industrial Gases Association (EIGA) Doc. 169 Classification and Labelling guide

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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