

	SAFETY DATA SHEET	Revision n. 02 Date of revision 28/05/2009 Printed on 25/05//2009
	ARGON / CARBON DIOXIDE	

1. IDENTIFICATION OF THE SUBSTANCE / COMPOUND AND OF THE COMPANY

1.1 IDENTIFICATION OF THE SUBSTANCE OR COMPOUND

Name ARGON / CO2

1.2 USE OF THE SUBSTANCE/ COMPOUND

Description/Use Application of semi-professional welding and hobby

2. DANGER IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR COMPOUND

Product not classified among the dangerous ones under the provisions of the directives 67/548/EEC and 1999/45/EC and amendments or adaptations

Danger Symbols: None
R-Phrases: None

FREE FROM THE RECORDING OBLIGATION ACCORDING TO ARTICLE 2, SECTION 7, LETTER a) of the (EC) regulation nr. 1907/2006 (REACH)

2.2 DANGER IDENTIFICATION

It may cause suffocation in case of high concentration.

3. COMPOSITION/INFORMATION ON INGREDIENTS

NAME	CONCENTRATION (C)	CLASSIFICATION
ARGON	≥86%	-----
Cas No 7440-37-1		
CE No 231-147-0		
CARBON DIOXIDE	≤14%	
Cas No 124-38-9		
EC No 204-696-9		

4. FIRST AID ACTION

INHALATION: In case of indisposition or suffocation symptoms, move the injured person away from the accident site to a fresh and ventilated place. Immediately call a doctor. Keep the patient lying. Give artificial respiration, if breathing is stopped.

SKIN CONTACT: no effect

EYE CONTACT: no effect.

INGESTION: Unlikely way of exposure

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5. FIRE FIGHTING ACTIONS

Closed containers exposed to fire heat may generate overpressure and explode. Extinction Means: All existing fire extinguishing means
Equipment: Wear complete equipment with eye shield helmet and neck protection, pressure or demand breathing apparatus.

6. ACTIONS FOR ACCIDENTAL RELEASE

PERSONAL PRECAUTIONS:

Use the breathing apparatus to enter the concerned area. Evacuate the area and ensure proper ventilation.

ENVIRONMENTAL PRECAUTIONS:

Prevent it from accessing sewage, basements, excavations and places where accumulation can be dangerous.

DEGASSING METHODS:

Let it evaporate

7. HANDLING AND STORAGE

7.1 HANDLING

For container handling, use proper personal protective equipment such as safety shoes and gloves.

Carefully handle the containers, thus avoiding violent collisions between them or against other surfaces, as well as falls and other mechanical strains susceptible to damage their integrity / resistance.

7.2 STORAGE

Gas-based containers cannot be directly exposed to sunshine rays, nor be close to heat sources or in places where temperature can reach 50° C or more.

Ensure proper ventilation (natural or forced) where carbon dioxide is stored and/or used.

7.3 SPECIAL USES

8. CHECK FOR EXPOSURE/PERSONAL PROTECTION

8.1 EXPOSURE THRESHOLD VALUES

TLV-ACGIH:	simple asphyxiating	(ref. to Argon)
PEL-OSHA:	simple asphyxiating	(ref. to Argon)

TLV®-TWA:	5000 ppm	(ref. to Carbon Dioxide)
TLV®-STEL:	30000 ppm	(ref. to Carbon Dioxide)

8.2 EXPOSURE CHECKS

Avoid gas inhalation by adopting suitable aeration / ventilation systems

8.2.1 PROFESSIONAL EXPOSURE CHECKS

8.2.2 ENVIRONMENTAL EXPOSURE CHECKS

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 GENERAL DATA

Physical state at 20 °C	compressed gas
Colour	colourless
Odour	No perceptible

9.2 RELEVANT INFORMATION ON HEALTH, SAFETY AND ENVIRONMENT

Molecular weight	No applicable
Melting point	n.a.
Boiling point	n.a.
Critical temperature	n.a.
Vapour pressure	No applicable
Density, gas (air=1)	n.a.
Solubility into water	n.a.
Flash limits	Non flammable

9.3 ALTRE INFORMAZIONI

10. STABILITY AND REACTIVITY

10.1 CONDITIONS TO AVOID

The product is stable under normal use and storage conditions.

10.2 SUBSTANCES TO AVOID

10.3 DANGEROUS DECOMPOSITION PRODUCTS

11. TOXICOLOGICAL INFORMATION

No known toxicological effects .

12. ECOLOGICAL INFORMATION

12.1 ECOTOXICITY

12.2 MOBILITY

12.3 PERSISTENCE AND DEGRADABILITY

12.4 BIOACCUMULATIVE POTENTIAL

12.5 RESULTS OF THE PBT ASSESSMENT

12.6 OTHER HARMFUL EFFECTS

No known environment damages caused by this gas.

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13. REMARKS ON DISPOSAL

Do not directly release in the atmosphere.
Dispose the container according to the applicable national regulations. CER code applicable 20 01 40

14. INFORMATION OF TRANSPORT

ROAD-RAIL TRANSPORTATION

ADR/RID class:	2
UN:	1956
Packing Group:	n.a.
Label:	2.2
Proper Shipping Name:	COMPRESSED GAS, N.O.S. (Argon/Carbon Dioxide)

SEA TRANSPORT:

IMO Class:	2
UN:	1956
Packing Group:	n.a.
Label:	2.2
EMS:	F-C, S-V
Proper Shipping Name:	COMPRESSED GAS, N.O.S. (Argon/Carbon Dioxide)

AIR TRANSPORT:

IATA:	2
UN:	1956
Packing Group:	n.a.
Label:	2.2
Cargo:	
Packing instructions:	200
Max. quantity:	150 kg.
Pass.:	
Packing instructions:	200
Max. quantity:	75 kg.
ERG code	2L

15. INFORMATION ON REGULATION

Not included in attachment I

Symbols:	None
Risk Phrases:	None
Safety Phrases:	None

16. OTHER INFORMATION.

GENERAL BIBLIOGRAPHY:

1. Directive 1999/45/CE and amendments or adaptations
2. Directive 67/548/CEE and amendments or adaptations (XXIX Technical adaptations)
3. Regulation (CE) 1907/2006 of the European Parliament (REACH)
4. The Merck Index. Ed. 10
5. Handling Chemical Safety
6. Niosh - Registry of Toxic Effects of Chemical Substances
7. INRS - Fiche Toxicologique
8. Patty - Industrial Hygiene and Toxicology

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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.