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

1.1. Product identifier

Trade name	Argon
Chemical description	Argon
CAS N°	7440-37-1
CE N°	231-147-0
Index N°	-
Registration n°	Listed in Annex IV / V REACH, exempted from registration
Chemical formula	Ar

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Industrial and professional. Perform risk assessment prior to use Test gas/Calibration gas Purge gas, diluting gas, inerting gas Purging Use for manufacture of electronic/photovoltaic components Shield gas for welding processes Laboratory use Food applications
Uses advised against	-

1.3. Details of the supplier of the safety data sheet

Company identification	MULTIGAS Route de l'Industrie 102 CH-1564 Domdidier
Phone number	+41 (0) 26 676 94 94
E-mail address	info@multigas.ch


1.4. Emergency telephone numbers

145 (Toxicology Center Zurich) or +41 (0) 44 251 51 51
+41 (0) 26 676 94 94 (Multigas)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

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Physical hazards Gases under pressure : Compressed gas H280
For the complete H-sentences texts mentioned in that chapter, refer to Section 16

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



GHS04

Signal word

Warning

Hazard statements

H280 Contains gas under pressure; may explode if heated

Precautionary statements

P410+403 Protect from solar radiation. Store in a well-ventilated place

2.3. Other hazards

Asphyxiant in high concentrations

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	Concentration	Classification
Argon	(CAS-No.) 7440-37-1 (EC-No.) 231-147-0 (EC Index-No.) --- (Registration-No.)--	<= 100%	Press. Gas (Comp.), H280

For the complete H-sentences texts mentioned in that chapter, refer to Section 16

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

3.2. Mixtures


Not established

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice

See a doctor. Show this safety data sheet to the attending physician

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In case of inhalation	In case of inhalation, remove the person from the contaminated area. In case of respiratory arrest, give artificial respiration. See a doctor
In case of skin contact	No adverse effects expected
In case of eyes contact	No adverse effects expected
In case of ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. See a doctor

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

In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation
Refer to section 11

4.3. Indication of any immediate medical attention and special treatment needed

Data not available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Spray water to reduce vapours or divert the cloud of steam. Water spray or water mist. Dry powder. Foam
Unsuitable extinguishing media	-

5.2. Special hazards arising from the substance or mixture

Specific hazards	Exposure to fire may cause containers to rupture/explode
Hazardous combustion products	-

5.3. Additional information

Cool endangered receptacles with water spray jet from a protected position


SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours, spray mists or gases. Provide adequate ventilation. Evacuate the staff to a safe place
Personal protective equipment, see section 8

6.2. Environmental precautions

-

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6.3. Methods and material for containment and cleaning up

-

6.4. Reference to other sections

See also sections 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

See also sections 8 and 13

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep container tightly closed in a dry and well-ventilated place. Pressurized contents

7.3. Specific end use(s)

-

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components with occupational exposure limits

Component	CAS N°	Exposure value type	Control parameter	Source
Argon	7440-37-1	TWA	-	No occupational exposure limit value
			-	
		OEL	-	
			-	

8.2. Exposure controls


8.2.1. Appropriate engineering controls

Provide adequate general and local exhaust ventilation
Systems under pressure should be regularly checked for leakages
Oxygen detectors should be used when asphyxiating gases may be released

8.2.2. Individual protection measures, e.g. personal protective equipment

Eye/face protection

Wear safety glasses with side shields

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Standard EN 166

Skin / hand protection

Wear working gloves when handling gas containers
Standard EN 388 - Protective gloves against mechanical risk

Respiratory protection

Self-contained breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen-deficient atmospheres
Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask

8.2.3. Environmental exposure controls

-

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

- **Physical state at 20°C / 101.3kPa** Gas
- **Colour** Colourless.

Odour

No odour warning properties

Odour threshold

Odour threshold is subjective and inadequate to warn of overexposure

pH

Data not available

Melting point / Freezing point

-189 °C

Boiling point

-186°C

Flash point

Data not available

Evaporation rate

Data not available

Flammability (solid, gas)

Data not available

Explosive limits

Data not available

Vapour pressure [20°C]

Data not available

Vapour pressure [50°C]

Data not available

Vapour density

Data not available

Relative density, liquid (water=1)

Data not available

Relative density, gas (air=1)

1.38

Water solubility

67.3 mg/l

**Partition coefficient
n-octanol/water (Log Kow)**

Data not available

Auto-ignition temperature

Data not available

Decomposition temperature

Data not available

Viscosity


Data not available

Explosive properties

Data not available

Oxidising properties

Data not available

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9.2. Other information

Molar mass	40 g/mol
Critical temperature [°C]	-122 °C
Relative vapour density	Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level

SECTION 10: Stability and reactivity

10.1. Reactivity

Data not available

10.2. Chemical stability

Stable under the recommended storage conditions

10.3. Possibility of hazardous reactions

Data not available

10.4. Conditions to avoid

Data not available

10.5. Incompatible materials

None
For additional information on compatibility refer to ISO 11114 standard


10.6. Hazardous decomposition products

Data not available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	Data not available
Skin corrosion/irritation	Data not available
Serious eye damage/irritation	Data not available
Respiratory or skin sensitisation	Data not available
Germ cell mutagenicity	Data not available
Carcinogenicity	Data not available
Reproductive toxicity	Data not available
STOT-single exposure – Target organ(s)	Data not available

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STOT-repeated exposure Data not available

Ingestion hazard Data not available

SECTION 12: Ecological information

12.1. Toxicity

Assessment No ecological damage caused by this product

12.2. Persistence and degradability

Data not available

12.3. Bioaccumulative potential

Data not available

12.4. Mobility in soil

Data not available

12.5. Results of PBT and vPvB assessment

Not classified as PBT or vPvB

12.6. Other adverse effects

Data not available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product May be vented to atmosphere in a well ventilated place.
Do not discharge into any place where its accumulation could be dangerous

Contaminated container Return unused product in original cylinder to supplier

OMoD Code 16 05 05
Gases in pressure containers other than those mentioned in 16 05 04.

SECTION 14: Transport information

14.1. UN number

Transport by road/rail ADR / RID	Transport by sea IMDG	Transport by air IATA
1006	1006	1006

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14.2. UN proper shipping name

Transport by road/rail ADR / RID	Transport by sea IMDG	Transport by air IATA
Argon, compressed	Argon, compressed	Argon, compressed

14.3. Transport hazard class(es)

Labelling



ADR/RID
IMDG
IATA

2.2 : Non-flammable, non-toxic gases

14.4. Packing group

ADR/RID
IMDG
IATA

-

14.5. Environmental hazards

ADR/RID None
IMDG None
ICAO-TI / IATA-DGR None

14.6. Special precautions for user

-

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information


15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety data sheet complies with the requirements of Regulation (CE) No. 1907/2006

15.2. Chemical safety assessment

A CSA does not need to be carried out for this product

SECTION 16: Other information

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Indication of changes

Revised safety data sheet in accordance with commission regulation (EU) No 2015/830

Abbreviations and acronyms

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road

CAS : Chemical Abstract Service number (USA)

CLP : Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

CSA : Chemical Safety Assessment

EIGA : European Industrial Gases Association

EINECS : European Inventory of Existing Commercial Chemical Substances

EN : European Standard

ATE : Acute Toxicity Estimate

IATA : International Air Transport Association

IMDG Code : International Maritime Dangerous Goods Code

LC50 : Lethal Concentration to 50 % of a test population

OMoD : Swiss Ordinance on the movement of waste

PBT : Persistent, Bioaccumulative and Toxic

PPE: Personal Protection Equipment

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

RID : Regulations concerning the international carriage of dangerous goods by rail

RMM : Risk Management Measures

STOT-SE : Specific Target Organ Toxicity - Single Exposure

UN : United Nations

vPvB : Very Persistent and Very Bioaccumulative

WGK: Water Hazards Class

Full text of H, EUH and P statements used in sections 2 and 3
Hazard statements

H280 Contains gas under pressure; may explode if heated

Precautionary statements

P410+403 Protect from solar radiation. Store in a well-ventilated place

Disclaimer of liability

Details given in this document have been prepared based on the most available reliable documents and are believed to be correct at the time of going to press

They do not claim to be exhaustive and should be considered as a guide