

SAFETY DATA SHEET

PRO GASES
UK

Pro Pure Argon

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830 AS AMENDED
BY UK REACH REGULATIONS SI 2019/758

Date of issue: 15/10/2025
Version: 1.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	Product identifier	
Product name	Pro Pure Argon	
CAS No.	7440-37-1	
EC No.	231-147-0	
REACH Registration No.	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	
Identified Use(s)	Industrial and professional. Perform risk assessment prior to use. Balance gas for mixtures. Calibration gas. Carrier gas. Fire suppressant gas. Food packaging gas. Inerting gas. Inflation systems. Laboratory use. Laser gas. Pressure head gas Operational assist gas in pressure systems. Process gas. Purge gas. Test gas. Shielding gas in gas welding. Anything other than the above.	
Uses advised against		
1.3	Details of the supplier of the safety data sheet	
Company Identification	Pro Gases UK 28 Forth Street, Bootle, Liverpool, United Kingdom, L20 8JW	
Telephone	0151 922 1118	
E-mail (competent person)	info@progasesuk.com	
1.4	Emergency Telephone Number	
Emergency Phone No.	+44 (0) 127356 9048	Available 24/7
Language(s) spoken:	English	

SECTION 2: HAZARDS IDENTIFICATION

2.1	Classification of the substance or mixture	
2.1.1	The retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain	Press. Gas (Comp.); H280
2.2	Label elements	According to the retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain
	Product description	Pro Pure Argon

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Hazard Pictogram(s)



Signal Word(s)

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

Asphyxiant in high concentrations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

SUBSTANCE	CAS No.	EC No.	REACH Registration No.	%W/W
Argon	7440-37-1	231-147-0	Exemptions apply	100

SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Self-protection of the first aider

Asphyxiant in high concentrations. Avoid inhalation of high concentrations of gas. Eliminate sources of ignition. Use personal protective equipment as required. The vapour is heavier than air; beware of pits and confined spaces. If it is suspected that fumes are still present, the responder should wear an appropriate mask or self-contained breathing apparatus.

Inhalation
Asphyxiant in high concentrations. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical advice/attention if you feel unwell.

Skin contact
No hazard expected under normal conditions of use. Get medical advice/attention if you feel unwell.

Eye contact
Not irritating to eyes. Get medical advice/attention if you feel unwell.

Ingestion
Oral exposure is considered to be not relevant.

Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

In high concentration the gas may cause a suffocation. Victim may not be aware of asphyxiation.

4.2 Most important symptoms and effects, both acute and delayed
4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Notes to a physician: Exposure to significant quantities may cause delayed pulmonary oedema.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

As appropriate for surrounding fire. Foam, CO₂ or dry powder

Unsuitable extinguishing media

Do not use water jet. Direct water jet may spread the fire.

5.2 Special hazards arising from the substance or mixture

Not flammable. Does not support combustion. The vapour is heavier than air; beware of pits and confined spaces.

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Compressed gas

Contains gas under pressure; may explode if heated. Sealed containers may rupture explosively if hot. Do not pierce or burn, even after use.

5.3 Advice for firefighters

Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Shut off source of leak if safe to do so. Eliminate all ignition sources if safe to do so. Ensure adequate ventilation. In case of inadequate ventilation wear respiratory protection. Wear suitable protective clothing. Contaminated clothing should be thoroughly cleaned. The vapour is heavier than air; beware of pits and confined spaces.

6.2 Environmental precautions

Presents no hazard to the environment. Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

Only trained and properly protected personnel must be involved in clean-up operations. Ensure adequate ventilation. Isolate the area and allow gas to disperse.

Small scale

Allow gas to disperse naturally in a well-ventilated area. Prevent access until ventilation has restored safe oxygen level. (>19.5% O₂).

Large scale

Evacuate area. Fight fire remotely due to the risk of explosion. Notify police and fire brigade as soon as possible. Prevent access until ventilation has restored safe oxygen level. (>19.5% O₂).

6.4 Reference to other sections

See sections 8 and 13

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

The vapour is heavier than air; beware of pits and confined spaces. Avoid inhalation of high concentrations of gas. Ensure adequate ventilation. In case of inadequate ventilation wear respiratory protection. Do not open valve until connected to equipment prepared for use. Do not eat, drink or smoke at the work place. Wash contaminated clothing before reuse. Wash hands before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Keep container in an upright position.

Storage temperature

Keep cool. Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

Incompatible materials

No known incompatible materials.

7.3 Specific end use(s)

See Section: 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational exposure limits

Not assigned.

8.1.2 Biological limit value

Not established.

8.1.3 PNECs and DNELs

Not established.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction if dusts, fumes or vapours are likely to be evolved. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources.

8.2.2 Individual protection measures, such as personal protective equipment

Do not breathe gas. Fuels are typically used, transferred and transported in closed systems. Keep good industrial hygiene. Do not eat, drink or smoke at the work place.

Eye/ face protection

Not normally required

Recommended:

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Use of liquid gas- Wear eye protection with side protection (EN166). Eyewash bottles should be available.

Skin protection



Not normally required

Use of liquid gas- **Hand protection:** Wear impervious gloves (EN374). Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Suitable materials: Butyl rubber, Nitrile rubber.

Body protection: Apron or other light protective clothing, boots and plastic or rubber gloves.

Respiratory protection



In case of inadequate ventilation wear respiratory protection.

Recommended: BS EN 14387:2004+A1

Thermal hazards

None anticipated

8.2.3 Environmental exposure controls

Presents no hazard to the environment. Avoid release to environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Colourless Compressed gas
Odour	Odourless
Odour threshold	Do not depend on odor to detect presence of gas.
pH	Not applicable
Melting point/freezing point	-189 °C
Initial boiling point and boiling range	-186 °C
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Not flammable
Upper/lower flammability or explosive limits	Not applicable
Vapour pressure	No data available
Vapour Density (Air=1)	1.38
Relative density	1.4
Solubility(ies)	Water solubility (g/L): 0.061
Partition coefficient: n-octanol/water	Not established
Auto-ignition temperature	Not applicable
Decomposition temperature	Not established
Viscosity	Not applicable
Explosive properties	Not explosive
Oxidising properties	Not oxidising.

9.2 Other information

Molecular weight (g/mol)	40
Critical Temperature (°C)	-122°C

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Chemically inert noble gas. Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazard expected under normal conditions of use.

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10.4	Conditions to avoid	Keep away from heat and sources of ignition. Sealed containers may rupture explosively if hot. Use only in well-ventilated areas. In high concentration the gas may cause a suffocation. Victim may not be aware of asphyxiation.
10.5	Incompatible materials	No known incompatible materials.
10.6	Hazardous decomposition products	Does not decompose under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects	
	Acute toxicity - Ingestion	Based upon the available data, the classification criteria are not met.
	Acute toxicity - Inhalation	Acute Toxicity Estimate Mixture Calculation: LD50 >2000 mg/kg bw
	Acute toxicity - Skin contact	Based upon the available data, the classification criteria are not met.
	Skin corrosion/irritation	Acute Toxicity Estimate Mixture Calculation: LC50 > 20,000 ppm (Gases)
	Serious eye damage/irritation	Based upon the available data, the classification criteria are not met.
	Respiratory or skin sensitisation	Based upon the available data, the classification criteria are not met.
	Germ cell mutagenicity	Based upon the available data, the classification criteria are not met.
	Carcinogenicity	Based upon the available data, the classification criteria are not met.
	Reproductive toxicity	Based upon the available data, the classification criteria are not met.
	STOT - Single Exposure	Based upon the available data, the classification criteria are not met.
	STOT - Repeated Exposure	Based upon the available data, the classification criteria are not met.
	Aspiration hazard	Based upon the available data, the classification criteria are not met.
11.2	Other information	None.

SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	Based upon the available data, the classification criteria are not met.
12.2	Persistence and degradability	LC50 (Fish): > 100 mg/l/96h
12.3	Bioaccumulative potential	No data available
12.4	Mobility in soil	No data available
12.5	Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
12.6	Other adverse effects	None Known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods	Disposal should be in accordance with local, state or national legislation.
	Waste classification according to Directive 2008/98/EC (Waste Framework Directive)	Not hazardous
13.2	Additional information	Pressurized container: Do not pierce or burn, even after use.

SECTION 14: TRANSPORT INFORMATION

	ADR/RID	IMDG	IATA/ICAO
14.1	UN number	1006	1006
14.2	UN proper shipping name	ARGON, COMPRESSED	ARGON, COMPRESSED
14.3	Transport hazard class(es)	2	2
14.4	Packing group	None assigned	None assigned
14.5	Environmental hazards	Not classified	
14.6	Special precautions for user	See Section: 2	
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable	Not applicable
14.8	Additional information	Special Provisions 378, 392, 653, 662 Limited Quantities 120 mL Transport category 3	Not applicable

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Tunnel restriction code (E)

SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.1.1	EU regulations	
	Authorisations and/or restrictions on use	Not restricted
15.1.2	National regulations	
	UK Authorisations and/or restrictions on use	Not restricted
15.2	Chemical Safety Assessment	
	This substance is exempted from Registration according to the provisions of Article 2(7)a and Annex IV of REACH	

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Not applicable – V1.0

References:

Existing Safety Data Sheet (SDS)
EU classification and labelling inventory for Argon (Ar) (CAS No. 7440-37-1).

Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830. Compiled in accordance with REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Legend

CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL	Derived no effect level
EC	European Community
ECHA	European Chemicals Agency
EN	European Standard
EU	European Union
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO/IATA	ICAO: International Civil Aviation Organization / IATA: International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Lethal concentration at which 50% of the population is killed
LD50	Lethal dose at which 50% of the population is killed
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
UK	United Kingdom
UN	United Nations
vPvB	very Persistent and very Bioaccumulative

Hazard classification / Classification code:

Press. Gas (Comp.); Pressurised gas (Compressed gas)

Hazard Statement(s)

H280: Contains gas under pressure; may explode if heated.

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

Disclaimers

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