BOC

SAFETY DATA SHEET

Pureshield Argon

1 IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND OF THE COMPANY

Product name	Pureshield Argon
Chemical formula	Ar
Company identification	see end of page 2
Emergency phone Nos	see end of page 2

2 COMPOSITION/INFORMATION ON INGREDIENTS

Substance/ Preparation	Substance
Components/ Impurities	Contains no other components or impurities which will influence the classification of the product.
CAS Nr	7440-37-1
EEC Nr (from EINECS)	231-147-0
Specification	99.998% minimum

3 HAZARDS IDENTIFICATION

Compressed gas.
In high concentrations may cause asphyxiation.
Not classified as a dangerous substance.

4 FIRST AID MEASURES

Inhalation	In high concentrations may cause asphyxiation and death. Symptoms may include loss of mobility/ consciousness. Victim may not be aware of asphyxiation. Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.
Ingestion	Ingestion is not considered a potential route of exposure.

5 FIRE FIGHTING MEASURES

Specific hazards	Exposure to fire may cause containers to rupture/explode. Inform Fire Brigade. Non flammable.
Hazardous combustion products	None.
Suitable extinguishing media	All known extinguishants can be used.
Specific methods	If possible, stop flow of product. Move away from container and cool with water from a protected position.
Special protective equipment for fire fighters	In confined space use self-contained breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions	Evacuate area. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Ensure adequate air ventilation. Post warning notices.
Environmental precautions	Try to stop release. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.
Clean up methods	Ventilate area.

7 HANDLING AND STORAGE

Suck back of water into the container must be prevented. Do not allow backfeed into the container. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature.
Contact BOC if in doubt.
Refer to BOC container handling instructions. Keep container below 50°C in a well ventilated place.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protection	Ensure adequate ventilation.

9 PHYSICAL AND CHEMICAL PROPERTIES

Molecular weight	40
Melting point	-189°C
Boiling point	-186°C
Critical temperature	-122°C
Relative density, gas	1.38 (air=1)
Relative density, liquid	Not applicable
Vapour Pressure 20°C	Not applicable
Solubility mg/l water	61 mg/l
Appearance/Colour	Colourless gas
Odour	Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level. Will displace oxygen where ventilation is at a high point only.

10 STABILITY AND REACTIVITY

Stability and reactivity	Stable under normal conditions.

11 TOXICOLOGICAL INFORMATION

General	No known toxicological effects from this product.

12 ECOLOGICAL INFORMATION

General	No ecological damage caused by this product

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13 DISPOSAL CONSIDERATIONS

General	Vent to atmosphere in a well ventilated place. Do not discharge into any place where its accumulation could be dangerous. Contact BOC if guidance is required.

14 TRANSPORT INFORMATION

Proper Shipping Name	Argon, compressed
UN Nr	1006
Class	2.2
ADR/RID Classification Code	1A
ADR/RID Hazard Nr	20
Labelling ADR	Label 2.2: non flammable non toxic gas.
Other transport information	Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers ensure that they are firmly secured and: – cylinder valve is closed and not leaking. – valve outlet cap nut or plug (where provided) is correctly fitted. – valve protection device (where provided) is correctly fitted – adequate ventilation. – compliance with applicable regulations.

15 REGULATORY INFORMATION

Number in Annex 1 of Dir 67/548	Not included in Annex 1.
EC Classification	Not classified as dangerous substance.
Labelling of cylinders	Label 2.2: non flammable non toxic gas.

16 OTHER INFORMATION

Ensure all national/local regulations are observed.

Asphyxiant in high concentrations.

Keep container in well ventilated place.

Do not breathe the gas.

The hazard of asphyxiation is often overlooked and must be stressed during operator training.

Users of breathing apparatus must be trained.

Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out. Although this shielding gas alone does not exhibit toxic/harmful effects, the fumes generated from a wielding process can be hazardous to health.

Always leak check cylinders when first collected, delivered or used, using an approved leak detection fluid.

This Safety Data Sheet has been established in accordance with the applicable European Directives and applies to all countries that have translated the Directives in their national laws.

Details given in this document are believed to be correct at the time of going to press.

Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.

For further safety information please refer to "Safe Under Pressure" and "Guidance for carriage of gas cylinders on vehicles", both of which are available from your local BOC outlet.

CYLINDER CHARACTERISTICS

Cylinder size	Maximum Filled Pressure at 15°C (bar)	Approx. Dimensions incl. valve and guard where supplied (mm)	Approx. Gross Cylinder weight (kg)	Manifolded Cylinder Pallets (MCP's)	Maximum Filled Pressure at 15°C (bar)	Approx. Dimensions incl. cylinders (mm)	Max. Gross Weight (kg)
X	230	940 x 140	19	WW (15 x W)	230	1290 x 1810 x 840	1500
Y	230	930 x 200	40				
W	230	1460 x 230	85	ZW* (20 x W)	230	2080 x 1330 x 1000	2300
				YW* (16xW)	230	1120 x 1120 x 2090	1980

NOTE: Not all sizes of cylinders and MCPs are available at all outlets.
OUTLET CONNECTION: 5/8" BSP female right hand cone recessed.
* Offshore customers only.

All BOC Safety Data Sheets are available online at www.boc.com/uk/sds

For product and safety enquiries please phone

In the United Kingdom:

0800 111 333

BOC Customer Service Centre
Priestley Road, Worsley
Manchester M28 2UT
Fax: 0800 111 555

In the Republic of Ireland:

1850 333 435

BOC Ireland
P.O. Box 201
Bluebell, Dublin 12
Fax: 01 409 1801