

MATERIAL SAFETY DATA SHEET



ARGON

CHEMICAL PRODUCT & COMPANY IDENTIFICATION 1

Product name	Argon, compressed
Chemical name/formula	Argon / Ar
Company identification	See header and foot
Emergency phone no.	See footer

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COMPOSITION / INFORMATION ON INGREDIENTS 2

Substance/Preparation	Substance
Components Impurities	Contains no other components or impurities, which will influence the classification of the product.
CAS No.	7440-37-1

HAZARDS IDENTIFICATION 3

General

► Non-flammable compressed gas. ► In high concentrations may cause asphyxiation.

4 FIRST-AID MEASURES

Inhalation

Ingestion

- ► In high concentrations may cause asphyxiation. Symptoms may include loss of mobility or 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.
- Skin/Eye contact ► No adverse effects anticipated.
 - ► Ingestion is not considered a potential route of exposure.

5 FIRE-FIGHTING MEASURES

Specific hazards Hazardous combustion products

- Suitable extinguishing media
- Specific methods

Special protective equipment (for fire fighters)

- ► Exposure to fire may cause containers to rupture or explode.
- ► None
 - ► All known extinguishants can be used.
 - ► If possible, stop flow of product. ► Move container away or cool with water from a protected position.
 - ► In confined space, use a self-contained breathing apparatus.

ACCIDENTAL RELEASE MEASURES 6

Personal precautions	 Evacuate area. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Ensure adequate air ventilation. 	
Environmental precautions	► Try to stop release.	
Clean up methods	► Ventilate area	
7 HANDLING & STORAGE		
General	 Suck back of water into the container must be prevented. Do not allow back-feed into container. Use only properly specified equipment, which is suitable for this 	

- ► Keep container below 50°C in a well-ventilated place.
- Refer to "safe handling, transport and storage of compressed gas cylinder" or contact AIG if in doubt.

EXPOSURE CONTROLS & PERSONAL PROTECTION 8

Exposure limit value	►None
Personal protection	Ensure adequate ventilation.

0 **PHYSICAL & 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	No odour warning properties
Auto-ignition temperature	Not applicable
Flammability range	Not flammable
Others	Gas or vapour is heavier than air. May accumulate in confined space, particularly at or below ground level.

10 STABILITY & REACTIVITY

General

► Stable under normal conditions.

11 TOXICOLOGICAL INFORMATION

General

► No known toxicological effects from this product.

12 ECOLOGICAL INFORMATION

General

► No known ecological effects from this product.

13 DISPOSAL CONSIDERATIONS

General

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

14 TRANSPORT INFORMATION

UN No.	1006
Class/Division	2.2 (Non-Flammable Gas)
Subsidiary risk	None
UN proper shipping name	Argon, compressed
IMO/IATA shipping label	
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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:
 - compliance with applicable regulations;
 - 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 and
- there is adequate ventilation.

15 REGULATORY INFORMATION

General

- ► Singapore's Factories Act 2000, Sections 14, 34, 44 & 60A.
- Singapore Standards:
 - CP 12:2000 Part 1
 - CP 98:2003

area.

SS 152:2003SS 286:1984 Part 1 to Part 5

► S51 – Use only in well ventilated

Risk and safety phrases

16 OTHER INFORMATION

General

- ► Ensure all local regulations or legislations are observed.
- Asphyxiant in high concentrations. Keep container in a well-ventilated place. Do not breathe gas.
- The hazard of asphyxiation is often overlooked and must be stressed before use.
- Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.
- Details given in this document are believed to be correct at the time of revising.
- 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.
- This safety data sheet is for information purposes only and is subjected to change without notice.

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