

## MATERIAL SAFETY DATA SHEET

### **Argon (Gas)**

#### PRODUCT AND COMPANY IDENTIFICATION

Product name	Argon (compressed)
Chemical name	Argon
Chemical formula	Ar
Components	Formed from atom argon
Impurities	Contains no other impurities which will influence the classification of the product
Company identification	CryoExpress Singapore Pte Ltd 1 Bukit Batok Crescent #05-15 WCEGA Plaza Singapore 658064
Telephone number	(65) 6561 5282

#### Product Information / Ingredients

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

#### HAZARDS IDENTIFICATION

Hazards identification	High concentration of Ar might cause asphyxiation.
Inhalation	Asphyxiant. Symptoms include dizziness, headache, vomiting, and unconsciousness.
Skin / Eye contact	No adverse effects anticipated.
Ingestion	Ingestion is unlikely to happen.

### FIRST AID MEASURES

Inhalation	Remove victim to uncontaminated area wearing self-contained breathing apparatus. Obtain medical assistance.
Skin/Eye contact	Not applicable.
Ingestion	Ingestion is unlikely to happen.

### FIRE FIGHTING MEASURES

Specific hazards	Exposure to fire might cause containers to rupture or explode.
Hazardous combustion products	None.
Suitable extinguishing media	All known extinguishers could be used.

### ACCIDENTAL RELEASE MEASURES

Personal precautions	Evacuate all personnel from affected area. Wear protective clothing and self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Ensure adequate air ventilation.
Environmental precautions	Stop flow if atmosphere is proved to be unsafe. Do not enter any place (e.g. basements, workpits) where its accumulation could be dangerous.
Clean up methods	Ventilate area.

### HANDLING AND STORAGE

Handling and storage	Suck back of water into container and backfeed must be prevented. Use only properly specified equipment, supply pressure and temperature for this product. Contact supplier if in doubt. Keep container below 50°C in a well-ventilated place.
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**EXPOSURE CONTROLS / PERSONAL PROTECTION**

Exposure limit value (PEL-OSHA)	None
Personal protection	Ensure adequate ventilation.

**PHYSICAL AND CHEMICAL PROPERTIES**

Molecular weight	40
Freezing 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
Odour and appearance	Colourless, odourless gas.
Other data	Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

**STABILITY AND REACTIVITY**

Stability and reactivity	Stable under normal conditions.
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**TOXICOLOGICAL INFORMATION**

General	No known toxicological effects.
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**ECOLOGICAL INFORMATION**

General	No known ecological effects.
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### DISPOSAL CONSIDERATIONS

General Do not discharge into any place where its accumulation could be dangerous.  
Contact supplier if guidance is required.

### TRANSPORT INFORMATION

Proper shipping name Argon  
UN Nr 1006  
Hazard class 2.2  
Shipping label Label 2: Non flammable gas.  
Other transport information Avoid transport on vehicles where load space is not separated from driver's compartment. Ensure vehicle driver is aware of the potential hazards and knows what to do in event of an accident or an emergency.

### REGULATORY INFORMATION

General Singapore Factories Act 2000, Sections 14, 34, 44 & 60A.  
Singapore Standard:  
CP 12:2000 part 1, CP 98:2003, SS 152:2003, SS 286:1984 Part 1 to Part 5  
Risk and Safety Phrases S51 – Use only in a well ventilated area

### OTHER INFORMATION

Ensure all national/local regulations are observed.  
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