



SAFETY DATA SHEET


SDS No. : SDS - 001
Revision : 0
Issue Date : 04.09.2015

Argon Compressed

1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY/ UNDERTAKING.

Trade/ Commercial name Argon (Compressed Gas)
Chemical description Argon
CAS No: 007440-37-1, EC No: 231-147-0
Chemical formula Ar
Use Industrial & Professional. Perform risk assessment prior to use.
Company identification Air Liquide India Holding Pvt. Ltd.
A-24/9, Mohan Co-operative Industrial Estate,
Mathura Road, New Delhi-110044.
Emergency Contact No. 011-30157288

2. HAZARDS IDENTIFICATION

Physical Hazards Gases under pressure – Compressed gas – Warning (H280)
Label Elements Non flammable and Non toxic gas(2.2)

Hazard Pictograms Code GHS04
Hazard Statement May cause or intensify anoxia.
H280: Contains gas under pressure; may explode if heated.
Precautionary Statements
Storage P403: Store in a well-ventilated place.
Other Hazards Asphyxiant in high concentrations.
Symbol(s) None.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Name	CAS (Product identifier)	%
Argon, Ar	7440-37-1	100%

4. FIRST AID MEASURES

Inhalation In high concentrations may cause asphyxiation. 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.
Skin/ Eye Contact Immediately wash eyes with copious amount of water for at least 15 minutes. In case of frostbite, spray with water for at least 15 minutes. Apply a sterile dressing. Obtain medical assistance.
Ingestion Ingestion is not considered a potential route of exposure.

5. FIRE FIGHTING MEASURES

Specific Hazard Exposure to fire may cause containers to rupture/ explode.
Hazardous Combustion None.
Suitable Extinguishing Media All known extinguishants can be used.
Products Specific Methods If possible, stop the flow of product. Move away from the container and cool with water from a protected position.
Special Protective Equipment for Fire Fighters In a confined space use self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Air Liquide India Holding Pvt. Ltd.

A-24/9, Mohan Co-operative Industrial Estate, Mathura Road, New Delhi-110044.

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Personal Precautions	Evacuate area. Wear self-contained breathing apparatus when entering the area unless atmosphere is proved to be safe. Ensure adequate air ventilation.
Environmental Precautions	Try to stop release. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be.
Clean up Methods	Ventilate the area and keep evacuated, also free from ignition sources until any spilled liquid has evaporated.

7. HANDLING & STORAGE

Handling	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 your gas supplier if in doubt. Refer to supplier's container handling instructions.
Storage	Keep container below 50°C in a well ventilated place.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Personal Protection	Do not smoke while handling the product. Ensure adequate ventilation. Protect eyes, face and skin from liquid splashes. Use proper PPEs, avoid oxygen deficiency (<21%) atmospheres.
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**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State at 20°C	Gas.
Color	Colorless.
Odor	No odor warning properties.
Molecular Weight	40 g/mole.
Molecular Formula	Ar
Boiling/ Condensation Point	-186°C
Melting/ freezing point	-189°C
Critical temperature	-122°C
Relative Density, Gas (air=1)	1.38
Relative Density, Liquid (water=1)	Not applicable.
Flammability Range (vol. % in air)	Non flammable.
Auto-Ignition Temperature	Not Applicable.
Other Data	Gas/ Vapors heavier than air. May accumulate in confined space, particularly at or below ground level.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal condition.
Hazardous Decomposition Product	None.

11. TOXICOLOGICAL INFORMATION

Toxicity Information	No known toxicological effect from this product.
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12. ECOLOGICAL INFORMATION

Ecological Effects Information	No known ecological damage caused by product.
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13. DISPOSAL CONSIDERATIONS

General Do not discharge into any place where its accumulation could be dangerous.
To atmosphere in well ventilated place.
Contact supplier if guidance required.

14. TRANSPORT INFORMATION

UN Number 1006
Labeling ADR, IMDG ,IATA Non flammable and Non toxic gas (2.2)

**Land Transport;**

UN Proper Shipping Name Argon, Compressed.
Transport Hazard Class 2
Hazchem Code 2RE
Tunnel/ Underpass Restriction Passage forbidden through long tunnels and underpasses.

Avoid transport on vehicles where the load space is not separated from the driver's compartment.
Ensure vehicle drivers are aware of the potential hazards of the load and know what to do in the event of an accident or an emergency.

Before transporting product containers ensure:

- That container is firmly secured.
- 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
- Product transport container/ Tank should keep or stand in well ventilated area.

15. REGULATORY INFORMATION

Workplace Hazardous Materials Information System (WHMIS)

1. **Class A:** Compressed gas.
2. Non flammable and Non toxic gas (2.2)
3. Ensure all national/ local regulations are observed.

16. OTHER INFORMATION

- May cause frostbite.
- Keep container in a well-ventilated place.
- Do not breathe the gas.
- Asphyxiate in high concentrations.

DISCLAIMER OF LIABILITY:

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. Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.