

# MATERIAL SAFETY DATA SHEET (MSDS)

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## PRODUCT AND COMPANY IDENTIFICATION

Product Name: Argon

Product Use: Industrial Gas

Company Name: Indo-Ghana Industries Ltd

Address: B-6158 Dadeban Rd. North Industrial Area, Accra, Ghana

Telephone Number: 054 431 3876

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Date of Preparation: 12/9/2023

## SECTION 1: PRODUCT INFORMATION

### Product Identification:

- Product Name: Argon
- Chemical Formula: Ar
- CAS Number: 7440-37-1
- Synonyms: Argon Gas, Industrial Argon

### Recommended Use:

- Argon is used as an inert shielding gas in welding and metal fabrication.

- It is also used in various industrial processes, including electronics manufacturing, food packaging, and as a carrier gas in analytical instruments.

## SECTION 2: HAZARDS IDENTIFICATION

### Classification:

- Argon is classified as a non-flammable, non-toxic gas.
- It is non-reactive and does not support combustion.

### Hazards:

- Argon poses minimal acute health hazards under normal conditions of use.
- It can displace oxygen in confined spaces, potentially leading to asphyxiation. Ensure proper ventilation when working with Argon.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	% by Weight
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Argon	7440-37-1	100%

## SECTION 4: FIRST AID MEASURES

### Inhalation:

- If exposed to high concentrations and experiencing breathing difficulties, move to an area with fresh air.
- Seek medical attention if symptoms persist.

**Skin Contact:**

- No specific first aid measures required.

**Eye Contact:**

- Flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.

**Ingestion:**

- Argon is not intended for ingestion. In case of accidental ingestion, seek medical attention.

**SECTION 5: FIRE-FIGHTING MEASURES**

- Argon is non-flammable and does not support combustion.
- Use standard fire-fighting equipment for nearby combustible materials if necessary.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

- Evacuate the area of all non-essential personnel.
- Ventilate the area to disperse the gas.
- Wear appropriate protective equipment (e.g., gloves, eye protection) when handling leaks or spills.

**SECTION 7: HANDLING AND STORAGE**

**Handling:**

- Use in well-ventilated areas or under fume hoods.
- Avoid prolonged exposure to high concentrations in confined spaces.
- Keep away from open flames and heat sources.

**Storage:**

- Store Argon cylinders upright in a well-ventilated, cool, and dry area.
- Secure cylinders to prevent tipping or falling.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Respiratory Protection: Not usually required under normal conditions. Use supplied air respirators in confined spaces.
- Eye Protection: Safety glasses with side shields or goggles are recommended when handling Argon.
- Skin Protection: No specific protective clothing required.
- Engineering Controls: Use local exhaust ventilation as necessary to control airborne concentrations.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance: Colorless, odorless gas
- Melting Point: -189.2°C (-308.6°F)

- Boiling Point: -185.8°C (-302.4°F)
- Density: 1.784 g/L at 0°C and 1 atm
- Solubility in Water: Slightly soluble

## **SECTION 10: STABILITY AND REACTIVITY**

- Stability: Stable under normal conditions.
- Incompatibility: Avoid contact with strong oxidizers and flammable substances.
- Hazardous Decomposition Products: None under normal conditions.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

- Argon is not known to exhibit acute toxicity under normal conditions of use.

## **SECTION 12: ECOLOGICAL INFORMATION**

- Argon is a noble gas and does not have significant environmental impact.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

- Dispose of empty Argon cylinders following local regulations for gas cylinder disposal.

## **SECTION 14: TRANSPORT INFORMATION**

- Argon is typically transported in high-pressure cylinders as a non-flammable gas.

## **SECTION 15: REGULATORY INFORMATION**

- Argon is generally considered non-hazardous under standard regulations.

## **SECTION 16: OTHER INFORMATION**

- This MSDS is provided for informational purposes and is based on the current knowledge of Indo-Ghana Industries Ltd as of the date of preparation.
- Users should exercise caution and consult with relevant safety data sheets and regulations for specific applications.

END OF MSDS