

# Material Safety Data Sheet (MSDS)

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## Section 1: Product and Company Identification

**Product Name:** Acetylene

**Product Use:** Synthetic/Analytical chemistry.

**Company Name:** Indo-Ghana Industries Ltd

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

**Telephone Number:** 054 431 3876

**Emergency Contact:** 054 431 3876

**Date of Preparation:** 12/9/2023

## Section 2: Hazard Identification

Acetylene is a highly flammable and potentially explosive gas. It poses serious fire and explosion hazards in the presence of air, oxygen, or other oxidizing agents. Inhalation of high concentrations can cause respiratory irritation, dizziness, and may lead to asphyxiation in confined spaces.

## Section 3: Composition and Information on Ingredients

Chemical Name: Acetylene

CAS Number: 74-86-2

Percentage: 100%

## Section 4: First Aid Measures

- **Inhalation:** Remove to fresh air. If breathing is difficult, administer oxygen. Seek medical attention immediately.

- **Skin Contact:** Remove contaminated clothing. Wash affected area with plenty of water. Seek medical attention if irritation persists.

- **Eye Contact:** Flush eyes with water for at least 15 minutes. Seek medical attention if irritation persists.

- **Ingestion:** Do not induce vomiting. Rinse mouth with water. Seek immediate medical attention.

## Section 5: Fire-Fighting Measures

- **Extinguishing Media:** Dry chemical, carbon dioxide (CO<sub>2</sub>), or appropriate foam.
- **Fire Hazards:** Acetylene is highly flammable and can form explosive mixtures with air or oxygen. Keep away from open flames and heat sources.
- **Firefighting Instructions:** Evacuate the area. Firefighters should wear self-contained breathing apparatus (SCBA).

## Section 6: Accidental Release Measures

- Evacuate the area and restrict access. Ventilate the area to disperse the gas.
- Avoid sources of ignition. Use non-sparking tools to contain and control leaks, if safe to do so.
- Contact emergency services if the leak cannot be controlled promptly.

## Section 7: Handling and Storage

- Store Acetylene cylinders in a cool, dry, well-ventilated area away from incompatible substances.
- Keep cylinders secured upright at all times.
- Use appropriate personal protective equipment when handling Acetylene.

## Section 8: Exposure Controls and Personal Protection

- **Respiratory Protection:** Use a self-contained breathing apparatus (SCBA) or supplied air respirator in confined spaces or areas with high concentrations of Acetylene.
- **Eye Protection:** Safety goggles or face shield.
- **Skin Protection:** Wear appropriate protective clothing and gloves.
- **Engineering Controls:** Ensure adequate ventilation to maintain Acetylene concentrations below the lower explosive limit (LEL).

## Section 9: Physical and Chemical Properties

- **Appearance:** Colorless gas
- **Odor:** Odorless
- **Boiling Point:**  $-84^{\circ}\text{C}$  ( $-119^{\circ}\text{F}$ )
- **Melting Point:**  $-81^{\circ}\text{C}$  ( $-114^{\circ}\text{F}$ )
- **Solubility in Water:** Slightly soluble

## Section 10: Stability and Reactivity

- Acetylene is unstable at elevated temperatures and pressures. Avoid exposure to heat and shock.
- **Incompatible Materials:** Avoid contact with strong oxidizing agents, halogens, and copper.

## Section 11: Toxicological Information

- Acetylene is not known to be carcinogenic or mutagenic.
- Inhalation of high concentrations can cause dizziness, headache, and respiratory irritation.

## **Section 12: Ecological Information**

- Acetylene is not considered environmentally hazardous.

## **Section 13: Disposal Considerations**

- Dispose of Acetylene cylinders in accordance with local, state, and federal regulations.

## **Section 14: Transportation Information**

- Acetylene cylinders must be transported and handled in compliance with relevant regulations.

## **Section 15: Regulatory Information**

- This product is subject to various regulations and should be used and handled in accordance with all applicable laws.

## **Section 16: Other Information**

- This MSDS is provided for informational purposes only and is not intended to replace professional judgment. Users should consult relevant safety data sheets and regulations for specific guidance on the safe handling and use of Acetylene.

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End of Material Safety Data Sheet (MSDS)