

# Material Safety Data Sheet (MSDS)

---

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Co2 Gas

**Product Use:** Synthetic/Analytical Chemistry

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

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

**Telephone Number:** 054 431 3876

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

**Emergency Contact Information:** 054 431 3876

## SECTION 2: HAZARD IDENTIFICATION

### Classification of the Substance

- **GHS Classification:** Compressed Gas (Category 1)

### Label Elements

- **Signal Word:** Danger
- **Hazard Statements:**
  - H280: Contains gas under pressure; may explode if heated.
- **Precautionary Statements:**
  - P410+P403: Protect from sunlight. Store in a well-ventilated place.
  - P405: Store locked up.
  - P403+P233: Store in a well-ventilated place. Keep container tightly closed.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Identity:** Carbon Dioxide (CO<sub>2</sub>)

**CAS Number:** 124-38-9

**Percentage Composition:** 100% CO<sub>2</sub>

## SECTION 4: FIRST AID MEASURES

### **Inhalation**

- Move the affected person to fresh air.
- If breathing is difficult, provide oxygen.
- Seek immediate medical attention if symptoms persist.

### **Skin Contact**

- Remove contaminated clothing.
- Wash the affected skin with plenty of water.
- Seek medical attention if irritation or redness persists.

### **Eye Contact**

- Rinse eyes thoroughly with water for at least 15 minutes, lifting upper and lower eyelids.
- Seek immediate medical attention.

### **Ingestion**

- Seek immediate medical attention. Do not induce vomiting.

### **Firefighting Measures**

- **Extinguishing Media:** CO<sub>2</sub> Gas is non-flammable; use extinguishing agents suitable for surrounding fires.

## SECTION 5: ACCIDENTAL RELEASE MEASURES

- Evacuate the area of the gas leak.
- Ensure proper ventilation.
- Prevent ignition sources.
- Wear appropriate protective equipment.
- Stop the leak if it can be done safely.
- Contain and collect gas with non-combustible materials.

## SECTION 6: HANDLING AND STORAGE

- Keep containers tightly closed.

- Store in a well-ventilated area, away from direct sunlight.
- Store away from incompatible materials.
- Use appropriate handling equipment when transferring gas.
- Do not smoke, eat, or drink in areas where the gas is used or stored.

### SECTION 7: EXPOSURE CONTROLS/PERSONAL PROTECTION

- **Respiratory Protection:** Use respiratory protection with appropriate filtration in areas with elevated CO<sub>2</sub> concentrations.
- **Eye Protection:** Wear safety goggles or a full-face shield.
- **Skin Protection:** Wear suitable protective clothing to prevent prolonged skin contact.
- **Hand Protection:** Wear gloves compatible with CO<sub>2</sub>.

### SECTION 8: PHYSICAL AND CHEMICAL PROPERTIES

- **Physical State:** Gas
- **Color:** Colorless
- **Odor:** Odorless
- **Boiling Point:** -78.5°C (-109.3°F)
- **Melting Point:** -56.6°C (-69.9°F)
- **Density:** 1.977 g/L at 20°C (68°F)
- **Solubility in Water:** 1.45 g/L at 25°C (77°F)

### SECTION 9: STABILITY AND REACTIVITY

- **Stability:** Stable under recommended storage conditions.
- **Incompatibilities:** Avoid contact with strong bases and reducing agents.
- **Hazardous Decomposition Products:** None under normal conditions.

## SECTION 10: TOXICOLOGICAL INFORMATION

- **Inhalation:** Inhalation of high concentrations of CO<sub>2</sub> can cause dizziness, headache, and suffocation in confined spaces.

## SECTION 11: ECOLOGICAL INFORMATION

- CO<sub>2</sub> is a naturally occurring gas and is not considered hazardous to the environment.

## SECTION 12: DISPOSAL CONSIDERATIONS

- Dispose of empty cylinders in accordance with local regulations.

## SECTION 13: TRANSPORT INFORMATION

- **UN Number:** 1013
- **Hazard Class:** 2.2
- **Packing Group:** N/A

## SECTION 14: REGULATORY INFORMATION

- This product is subject to the regulations and guidelines of the Ghana Environmental Protection Agency.

### **Other Information**

This Material Safety Data Sheet (MSDS) is provided for informational purposes only and is based on the current state of knowledge and regulations in Ghana as of the date of preparation. It is the responsibility of the user to ensure the safe handling and use of this product in accordance with all applicable laws and regulations.

Please note that this MSDS is a general template and should be reviewed and customized further to meet specific local regulations and safety requirements in Ghana. Additionally, it's important to keep the MSDS updated as necessary and to provide appropriate training to employees who handle Co<sub>2</sub> Gas.