MATERIAL SAFETY DATA SHEET(MSDS)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Helium

Product Use: Industrial Gas

Company Name: Indo-Ghana Industries Ltd

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

Emergency Contact: 054 431 3876

Telephone Number: 054 431 3876

Date of Preparation: 12/9/2023

SECTION 2: HAZARD IDENTIFICATION

Helium is generally considered non-toxic, non-flammable, and non-reactive under normal conditions. However, improper handling, storage, or exposure to high concentrations can pose certain hazards.

Emergency Overview:

- Colorless, odorless, and tasteless gas.

- Under high pressure, helium can displace oxygen, leading to asphyxiation in confined spaces.

- Not considered a fire or explosion hazard.

Potential Health Effects:

- Inhalation: Inhaling excessive helium can cause dizziness, nausea, and asphyxiation if oxygen levels are reduced.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: Helium (He)

CAS Number: 7440-59-7

Percentage by Volume: 100%

SECTION 4: FIRST AID MEASURES

Inhalation:

- Move the affected person to fresh air immediately.

- If breathing difficulties persist, seek medical attention.

Eye Contact:

- Rinse eyes with plenty of water for at least 15 minutes. If irritation persists, seek medical attention.

Skin Contact:

- Wash affected skin with soap and water. If irritation develops, seek medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Helium is not flammable and does not support combustion. No special fire-fighting measures are required for helium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

In case of a helium gas leak:

- Evacuate the area and restrict access.
- Ventilate the area to disperse the gas.
- Do not allow smoking, open flames, or sparks in the vicinity.
- Use appropriate protective equipment if trained to do so.

SECTION 7: HANDLING AND STORAGE

Handling:

- Use helium in well-ventilated areas.
- Ensure proper ventilation in confined spaces.
- Do not inhale helium directly from the cylinder.

Storage:

- Store helium cylinders upright and secured to prevent tipping.
- Store away from sources of heat, open flames, and combustible materials.
- Keep cylinders in a cool, dry place.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

- Occupational Exposure Limit (OEL): Not established for helium due to its inert nature.

Personal Protective Equipment:

- Eye protection: Safety glasses or goggles.
- Skin protection: Nitrile or latex gloves.
- Respiratory protection: Not required under normal conditions.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- Physical state: Gas
- Color: Colorless
- Odor: Odorless
- Boiling Point: -268.93°C (-452.07°F)
- Melting Point: -272.2°C (-457.96°F)

SECTION 10: STABILITY AND REACTIVITY

Helium is chemically inert and stable under normal conditions. It does not react with other substances.

SECTION 11: TOXICOLOGICAL INFORMATION

Helium is not considered toxic under normal conditions of use. However, inhalation of high concentrations can lead to asphyxiation.

SECTION 12: ECOLOGICAL INFORMATION

Helium is an inert gas and does not pose ecological hazards.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of helium cylinders in accordance with local, state, and national regulations for compressed gases.

SECTION 14: TRANSPORT INFORMATION

Helium is classified as a non-hazardous gas for transportation.

SECTION 15: REGULATORY INFORMATION

Consult local and national regulations for any specific requirements related to helium storage, handling, and transportation.

SECTION 16: OTHER INFORMATION

This MSDS is provided for informational purposes only and is based on our current knowledge. It does not constitute a warranty or guarantee of product performance. Users should ensure safe handling, storage, and use of helium in accordance with applicable laws and regulations.

END OF MSDS