

Material Safety Data Sheet (MSDS)

Product and Company Identification

Product Name: AR+N2+CO2 Mixture Gas

Product Use: Gas manufacturing for industrial applications

Company Name: Indo-Ghana Industries Ltd

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

Emergency Contact: 054 431 3876

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Date of Preparation: 12/9/2023

Section 1: Product Identification

Product Information:

- Product Name: AR+N2+CO2 Mixture Gas
- Synonyms: Argon, Nitrogen, Carbon Dioxide Gas Mix
- Recommended Use: Industrial applications, welding, cutting, and inerting

Section 2: Hazard Identification

Hazard Classification:

- This gas mixture is not classified as hazardous under Ghanaian regulations.

Potential Hazards:

- Inhalation: Exposure to high concentrations may cause asphyxiation.
- Fire and Explosion: This gas mixture is non-flammable but can displace oxygen and cause a fire hazard in oxygen-depleted environments.
- Cryogenic Properties: Extremely cold temperatures can cause frostbite or injury if not handled properly.

Section 3: Composition/Information on Ingredients

Chemical Composition:

- Argon (Ar): XX%
- Nitrogen (N₂): XX%
- Carbon Dioxide (CO₂): XX%

Section 4: First-Aid Measures

Inhalation:

- If inhaled, move the affected person to fresh air.
- If breathing difficulties persist, seek medical attention immediately.

Skin Contact:

- In case of skin contact, rinse with plenty of water. If irritation occurs, seek medical attention.

Eye Contact:

- In case of eye contact, rinse thoroughly with water for at least 15 minutes. If irritation persists, seek medical attention.

Ingestion:

- This gas is not intended for ingestion. Seek medical attention if ingested accidentally.

Section 5: Fire-Fighting Measures

Fire and Explosion Hazards:

- This gas mixture is non-flammable. Use appropriate extinguishing agents for surrounding fires.

Section 6: Accidental Release Measures

- Evacuate the area of any personnel not involved in containment or cleanup.
- Ventilate the area if a release occurs in an enclosed space.
- Use appropriate personal protective equipment (PPE) when handling and cleaning up spills.
- Contain and collect the gas using inert absorbent materials.

Section 7: Handling and Storage

Handling:

- Store and handle in accordance with all applicable regulations.
- Use equipment and facilities designed for the safe handling of compressed gases.
- Ensure proper ventilation in areas where gas is used or stored.

Storage:

- Store in a cool, dry, well-ventilated area away from incompatible materials.
- Keep cylinders upright, secured, and labeled.
- Do not store near open flames, heat sources, or ignition sources.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

- Use local exhaust ventilation and gas detection systems as necessary to control exposure.

Personal Protective Equipment (PPE):

- Eye and Face Protection: Safety goggles or face shield
- Skin Protection: Appropriate gloves and clothing to prevent frostbite
- Respiratory Protection: Use respiratory protection in confined spaces or areas with inadequate ventilation.

Section 9: Physical and Chemical Properties

- Appearance: Colorless, odorless gas
- Odor Threshold: Not applicable
- pH: Neutral
- Melting Point: -186°C (-302°F)
- Boiling Point: Varies with gas composition
- Solubility in Water: Insoluble
- Density: Varies with gas composition

Section 10: Stability and Reactivity

Stability:

- Stable under normal conditions of use and storage.

Incompatibilities:

- Avoid contact with oxidizing agents, strong acids, and alkalis.

Section 11: Toxicological Information

- No specific toxicological data available for this gas mixture.
- Refer to individual component MSDS for toxicity information.

Section 12: Ecological Information

- No specific ecological data available for this gas mixture.

Section 13: Disposal Considerations

- Dispose of this gas mixture in accordance with local, state, and national regulations.
- Return empty cylinders to the supplier.

Section 14: Transport Information

- Follow all applicable regulations when transporting this gas mixture.

Section 15: Regulatory Information

- This product is subject to regulations outlined in Ghanaian laws and regulations regarding hazardous materials.

Section 16: Other Information

- This MSDS is intended to provide information regarding the safe handling and use of the product. It is not a warranty or guarantee of the product's performance.

End of Safety Data Sheet