

MATERIAL SAFETY DATA SHEET (MSDS)

PRODUCT AND COMPANY IDENTIFICATION:

Product Name: Argon Carbon Dioxide Welding Mixtures

Product Use: Welding and 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 Name: Argon Carbon Dioxide Welding Mixtures

Synonyms: ArCO₂ Welding Gas, Welding Gas Mixture

CAS Number: Not applicable

Chemical Formula: Not applicable

Molecular Weight: Not applicable

SECTION 2 - HAZARDS IDENTIFICATION:

Emergency Overview:

This product is a mixture of argon and carbon dioxide gases used for welding and industrial applications. It is non-flammable, but may displace oxygen, potentially causing asphyxiation in poorly ventilated areas.

Potential Health Effects:

- Inhalation: Excessive inhalation may lead to dizziness, headache, nausea, and in extreme cases, asphyxiation.
- Skin Contact: Not expected to cause irritation.
- Eye Contact: May cause eye irritation.
- Ingestion: Not applicable for this product.

Routes of Entry: Inhalation, skin contact, eye contact.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS:

Component Name	CAS Number	Concentration
Argon (Ar)	7440-37-1	90-99%
Carbon Dioxide (CO ₂)	124-38-9	1-10%

SECTION 4 - FIRST AID MEASURES:

Inhalation:

- Remove to fresh air immediately.
- If breathing is difficult, provide oxygen.
- Seek medical attention if symptoms persist.

Skin Contact:

- Wash affected area with plenty of soap and water.
- Seek medical attention if irritation occurs.

Eye Contact:

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

Ingestion:

- This product is not intended for ingestion.
- If ingested, seek medical attention immediately.

SECTION 5 - FIRE-FIGHTING MEASURES:**Extinguishing Media:**

- This product is non-flammable.
- Use extinguishing media appropriate for surrounding fire.

Fire Fighting:

- Evacuate the area.
- Use self-contained breathing apparatus (SCBA) to protect against potential asphyxiation.

SECTION 6 - ACCIDENTAL RELEASE MEASURES:

- Evacuate the area and restrict access to prevent exposure.
- Ventilate the area to disperse the gas.

- Use appropriate personal protective equipment (PPE) including gloves and safety goggles.
- Do not attempt to contain a large release. Allow the gas to disperse safely.

SECTION 7 - HANDLING AND STORAGE:

Handling:

- Use in well-ventilated areas.
- Avoid breathing gas.
- Keep away from heat, sparks, and open flames.
- Use appropriate handling equipment for gas cylinders.

Storage:

- Store in a cool, dry, well-ventilated area away from incompatible materials.
- Store gas cylinders securely in an upright position.
- Keep cylinders away from direct sunlight and heat sources.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION:

Engineering Controls:

- Ensure adequate ventilation in work areas.
- Use local exhaust ventilation for confined spaces.

Personal Protective Equipment (PPE):

- Eye/Face Protection: Safety goggles or face shield.
- Skin Protection: Gloves recommended.

- Respiratory Protection: Use NIOSH-approved respirators as necessary.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Colorless, odorless gas

Odor Threshold: Not applicable

Melting Point: -308.9°F (-189.4°C)

Boiling Point: -302.6°F (-185.9°C)

Vapor Pressure: Not applicable

Specific Gravity: 1.38 (air = 1)

SECTION 10 - STABILITY AND REACTIVITY:

Stability: Stable under normal conditions.

Incompatibilities:

- Avoid contact with strong oxidizers and reducing agents.

Hazardous Decomposition Products: None under normal conditions.

SECTION 11 - TOXICOLOGICAL INFORMATION:

No specific toxicological data available for this mixture. Refer to the health effects in Section 2.

SECTION 12 - ECOLOGICAL INFORMATION:

This product is not expected to have significant environmental effects.

SECTION 13 - DISPOSAL CONSIDERATIONS:

Dispose of cylinders in accordance with local, state, and national regulations.

SECTION 14 - TRANSPORT INFORMATION:

Not regulated for transport under UN, DOT, or IATA regulations.

SECTION 15 - REGULATORY INFORMATION:

This product may be subject to national, state, or local regulations. Check with relevant authorities for compliance.

SECTION 16 - OTHER INFORMATION:

This Material Safety Data Sheet (MSDS) is provided in accordance with applicable regulations. It is intended to describe our product and its potential hazards. The information provided is based on our current knowledge and is not intended to be comprehensive. Users should ensure that they have the most current version of this MSDS and consult it as necessary.

END OF MSDS