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MSDS: METHYLENE IODIDE

IDENTIFICATION:

Product Name: METHYLENE IODIDE

SYNONYM: DIODOMETHANE

CAS Number: 75-11-6

Molecular Weight: 267.84

Chemical Formula: CH₂I₂

Shipping Information: Toxic liquid, organic, n.o.s. (methylene iodide),
UN2810, 6.1, PGIII

PHYSICAL DATA:

Boiling Point (F): 180 - 181°C.

Melting Point: 5-8°C

Odor: Ethereal

Vapor Density (Air=1): 9.25

Appearance/Odor: Light yellow, clear liquid (light sensitive)

Flash Point: >110°C(>230° F)

Specific Gravity: 3.30-3.33 @ 20°C (water = 1)

Solubility: insoluble in cold water

FIRE AND EXPLOSION HAZARD:

Flash Point: None

LEL: Not Known

UEL: Not Known

Extinguishing Media: Dry Chemical, CO₂ or alcohol foam.

SPECIAL FIRE FIGHTING PROCEDURES: Wear full protective equipment including self-contained breathing apparatus (eye, body, respiratory).

UNUSUAL FIRE HAZARDS: Emits toxic fumes under fire conditions.

REACTIVITY DATA:

INSTABILITY: This chemical is initially colorless, but may darken with exposure to air and light. This product reacts violently with alkali metal salts and explosions could result.

HAZARDOUS POLYMERIZATIONS: Will not occur.

INCOMPATIBLES: Strong bases, strong oxidizing agents, alkali metal salts.

DECOMPOSITION PRODUCTS: Carbon Monoxide, Hydrogen Iodide, and Carbon Dioxide.

STORAGE, SPILL, AND DISPOSAL:

STORAGE: Product must be kept away from light, heat, moisture, air, flame and other sources of ignition. Store in a cool, dark, dry area.

SPILL: Absorb onto diatomaceous earth, sand or other noncombustible absorbent material. Place in proper container for disposal. Then wash area with water.

DISPOSAL: Collect and dispose of waste in accordance with applicable local, state and federal laws.

SPECIAL PROTECTIVE EQUIPMENT:

Use in adequately ventilated area, (chemical fume hood recommended). Utilize eye protection and protective rubber gloves and apron. Use a NIOSH approved respirator with proper vapor/gas cartridge when necessary or when ventilation is inadequate.

HEALTH HAZARD DATA:**HAZARD RATING SYSTEM:**

HEALTH = 2

FLAMMABILITY = 1

REACTIVITY = 1

HAZARD RATINGS ARE 0-4 (0= NO HAZARD; 4= EXTREME HAZARD)

POSSIBLE ROUTES OF ENTRY: Eye, skin, ingestion, inhalation

POTENTIAL HEALTH EFFECTS: Harmful if swallowed, inhaled or absorbed through skin. Causes skin and eye irritation. Vapor may cause respiratory tract irritation.

EFFECTS OF OVEREXPOSURE: Prolonged and repeated contact with this chemical may be harmful. Always avoid contact with skin, eyes and mucous membrane. Prolonged exposure to iodides may produce **iodism** in sensitive individuals. Symptoms of **iodism** exposure include: skin rash, running nose, headach and irritation of mucous membrane.

For severe cases the skin may show pimples, boils, hives, blisters and black and blue spots. Iodides are readily diffused across the placenta. Neonatal deaths from respiratory distress secondary to goiter have been reported. Iodides have been known to cause drug-induced fevers, which are usually of short duration. Always avoid contact with skin, eyes and mucous membranes.

FIRST AID:

EYES: Remove any contact lenses and immediately flush eyes with water for at least 15 minutes. If irritation develops or persists, seek medical attention.

SKIN: Remove any contaminated clothing and immediately flush area with water for at least 15 minutes. If irritation develops or persists, seek medical attention. Wash contaminated clothing before reuse.

INHALATION: If inhaled, remove victim to fresh air, if not breathing give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

INGESTION: If ingested can conscious, give several glasses of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Seek medical advice immediately.

SPECIAL PRECAUTIONS:

ALWAYS USE PERSONAL PROTECTIVE EQUIPMENT AND FOLLOW SAFE LABORATORY PRACTICES DURING HANDLING AND STORAGE OF THIS CHEMICAL. HANDLE ONLY IN WELL VENTILLATED AREAS.THE DATA PROVIDED IS CORRECT TO THE BEST OF OUR KNOWLEDGE. WE SHALL NOT BE HELD LIABLE FOR ANY DAMAGES RESULTING FROM HANDLING OR CONTACT WITH THIS PRODUCT.

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