

MATERIAL SAFETY DATA SHEET

I PRODUCT IDENTIFICATION

Trade Name: Gallium Chloride **Formula:** GaCl
CAS #: 13450-90-3

II HAZARDOUS INGREDIENTS

Physical Hazards: When heated to decomposition may emit toxic fumes of Cl.

III PHYSICAL DATA

Boiling Point: 201.2 °C **Melting Point:** 77.7 °C
Specific Gravity: 2.47 **Appearance:** White powder.
Solubility in Water: Decomposes in water. Soluble in benzene, CCl₄, CS₂

IV FIRE AND EXPLOSION HAZARDS DATA

Flash Point (Method Used): Not Applicable **Autoignition Temperature:** N/A
Flammable Limits: Upper: N/A **Lower:** N/A

Extinguishing Media: No data
Special Fire Fighting Procedures: N/A
Unusual Fire & Explosion Hazards: N/A

V HEALTH HAZARD INFORMATION

TLV: Not Set
LD50 Values for GaCl₃: 306 mg/kg (subcutaneous-rat); 47 mg/kg (intravenous-rat). Not listed as a carcinogen by NTP, IARC.

Routes of Entry: Skin and eye contact, ingestion, inhalation. Gallium is not readily absorbed by the oral route. In animals, gallium acts as a neuromuscular poison and causes renal damage. Gallium remains in tissues for long periods of time following intramuscular injection of soluble salts.

EMERGENCY AND FIRST AID PROCEDURES:

SKIN: Wash thoroughly with soap and water.
EYES: Flush for at least 15 minutes with water. Call physician.
INGESTION: Call physician or poison control center.
INHALATION: Remove to fresh air.

VI REACTIVITY DATA

Stability: Stable
Incompatibility (Material to Avoid): N/A
Hazardous Polymerization: Will not occur.

VII SPILL OR LEAK PROCEDURES

Steps to Be Taken in Case Material Is Released or Spilled: Small amounts may be scooped or swept up, dissolved in water, flushed down the drain with excess water. Avoid breathing dust.

VIII SPECIAL PROTECTION INFORMATION

Handling Procedures: Wear gloves, safety glasses, protective clothing. Use respirator or dust mask if exposed to dust or fumes.

IX SPECIAL PRECAUTIONS

Other Precautions: Store in tightly closed containers.

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