

**AERCHEM INC.**  
**400 W. 7th Street, Suite 112**  
**Bloomington, IN 47404**

Telephone: 812.334.9996

Fax: 812.334.1960

Emergency: 800.424.9300

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**SECTION 1: PRODUCT IDENTIFICATION**

**Product Name:**

Mercury (III) Chloride

**Chemical Name:**

Mercury (II) Chloride

**Formula:**

HgCl<sub>2</sub>

**Synonyms:**

Mercuric Chloride, Mercury Bichloride

**CAS #:**

7487-94-7

**Chemical Family:**

Metallic Salt

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**SECTION 2: HAZARDOUS INGREDIENTS**

**Material or Components**

**%**

**Hazard Data**

Mercuric Chloride

99+

eye rbt 500mg/24H SEV  
orl wmn TDLo:50ug/Kg 10W preg  
orl rat TDLo:240mg/Kg 6-15D preg  
cyt hmn:lym 5umol/L  
skn rat: LD<sub>50</sub>:4500ug/Kg  
eye rbt 50ug/24H SEV

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**SECTION 3: PHYSICAL PROPERTIES**

**Boiling Point/Range:**

N/A

**Melting point:**

277C

**Freezing Point:**

N/A

**Molecular Weight (Calc.):**

271.52

**Specific Gravity (H<sub>2</sub>O=1):**

5.4

**Vapor Density (Air=1):**

N/A

**% Volatile by Volume:**

N/A

**Solubility in H<sub>2</sub>O:**

6.9 g/100cc

**Evaporation Rate:**

N/A

**Vapor Pressure (mm Hg):**

1 @ 136.2

**Appearance & Odor:**

White crystalline powder or granules  
**Other:**  
N/A

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**SECTION 4: FIRE AND EXPLOSION DATA**

**Flash Point/Test Method:**

Non flammable

**Flammable Limits:**

Lower: N/A

Upper: N/A

**Extinguishing Media:**

Dry chemical.

**Special Fire Fighting Procedures:**

Wear SCBA

**Unusual Fire and Explosion Hazards:**

Fire involving Mercuric Chloride will release very toxic fumes

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**SECTION 5: REACTIVITY DATA**

**Stability:**

Stable

**Condition Contributing to Unstability:**

N/A

**Incompatibility (avoid contact with):**

Formates, sulfites, hypophosphites, phosphates, sulfides, albumin, gelatin, alkalies, alkaloid salts, ammonia, live water, antimony & arsenic, bromides, borax, carbonates, reduced iron: lead silver salts.

**Hazardous Decomposition Products (thermal and other):**

Mercury, chlorine

**Conditions to Avoid:**

Heat

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**SECTION 6: SPILL OR LEAK**

**Steps to be Taken if Material is Spilled or Leaked:**

Sweep or scoop up and remove.

**Waste Disposal Method:**

Consult, federal, state and local authorities for proper disposal procedures:

This product contains chemical(s) subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-to-Know Act of 1986 and 40CFR37.

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**SECTION 7: TOXICITY**

A human poison by ingestion and possibly other routes. Poisonous experimentally by skin contact and subcutaneous routes. Human system effects by ingestion: respiratory, obstruction, nausea, or vomiting, urine volume decreased, uranuria. Human reproductive effects by ingestion; terminates pregnancy. Experimental teratogenic and reproductive effects. Human mutagenic data.

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**SECTION 8: HEALTH HAZRAD INFORMATION**

**Effects of Exposure:**

Permissible Exposure Limits: ACGIH TLV 0.1mg (Hg) / m3 (skin) NIOSH REL : TWA 0.05mg (Hg) / m3.

**Irritation:**

Skin Severe.  
Eye Severe

**Corrosivity:**

N/A

**Sensitization:**

N/A

**Lung Effects:**

N/A

**Other:**

N/A

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**SECTION 9: EMERGENCY FIRST AID**

**Ingestion:**

Get medical attention.

**Dermal:**

Get medical attention.

**Eye Contact:**

Flush with plenty of water for at least 15 minutes.  
Get medical attention.

**Inhalation:**

Remove to fresh air.  
Get medical attention.

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**SECTION 10: SPECIAL PROTECTION INFORAMTION**

**Vantilation Requirements:**

Always maintain exposure below permissable limits.  
Local exhaust.

**Eye:**

Goggles.

**Hands (glove type):**

Butyl rubber.

**Respirator Type (use only NIOSH/MESA approved equipment):**

Filter-dust, fume, mist.

**Other Protective Equipment:**

Use protective clothing to reduce exposure to skin.

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**SECTION 11: SPECIAL PRECAUTIONS**

**Precautionary Labeling:**

Do not get in eyes, on skin or on clothing.

Do not breathe dust, vapor, mist, gas.

Store in tightly closed containers.

Empty container may contain hazardous residues.

**Other Handling/Storage Conditions:**

N/A

**DOT Classification:**

Poison B

**Revision Date:**

11/05/1989