



**Material Safety Data Sheet**  
Mercuric Chloride, 0.1M

## Section 1 - Chemical Product and Company Identification

**MSDS Name:**

Mercuric Chloride, 0.1M

**Catalog Numbers:**

LC16640

**Synonyms:****Company Identification:**

LabChem, Inc.  
200 William Pitt Way  
Pittsburgh, PA 15238

**Company Phone Number:**

(412) 826-5230

**Emergency Phone Number:**

(800) 424-9300

**CHEMTREC Phone Number:**

(800) 424-9300

## Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	balance
7487-94-7	Mercuric chloride	2.7

## Section 3 - Hazards Identification

### EMERGENCY OVERVIEW

*Appearance: Colorless*

*Warning! May cause eye irritation and possible burns. May cause skin irritation. May cause respiratory and digestive tract irritation.*

*Target Organs: Noneknown.*

**Potential Health Effects****Eye:**

May causesevereeyeburns.

**Skin:**

Exposuremaycausedermatitisandsensitization.Maycausedredness,pain,andirritation.

**Ingestion:**

Substancecausesnecrosisoftissueinimmediateareaofcontamination.Violentpain,vomiting,andpurgingmay occur. Mean lethal dosage for adults is 1-4 grams.



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**Inhalation:**

High dust concentrations may cause coughing, dyspnea, labored breathing, delayed pulmonary edema.

**Chronic:**

Chronic exposure to mercury may cause permanent central nervous system damage, fatigue, weight loss, tremors, personality changes. Personality changes have been associated with chronic mercury poisoning. Prolonged ingestion may cause metallic taste, gingivitis, pyorrhea with loosening teeth, gastrointestinal tract disorders, kidney and liver disorders.

## Section 4 - First Aid Measures

**Eyes:**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.

**Skin:**

Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.

**Ingestion:**

Get medical aid at once. Give oxygen if respiration is depressed.

**Inhalation:**

Give artificial respiration if necessary. Get medical aid. Keep victim warm, at rest. Move victim to fresh air.

**Notes to Physician:**

Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General Information:**

Negligible fire and explosion hazard when exposed to heat or flame. Move container if possible, avoid breathing vapors or dust.

**Extinguishing Media:**

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

**Autoignition Temperature:**

No information found.

**Flash Point:**

No information found.

**NFPA Rating:**

CAS# 7732-18-5: Not published.

CAS# 7487-94-7: Not published.

**Explosion Limits:**

Lower:      Upper:

## Section 6 - Accidental Release Measures

**General Information:**

Use proper personal protective equipment as indicated in Section 8.



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### Spills/Leaks:

Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal. Keep out of sewers/drains.

## Section 7 - Handling and Storage

### Handling:

Wash thoroughly after handling. Avoid breathing dust, vapor, mist, or gas.

### Storage:

Store capped at room temperature. Protect from heat and incompatibles.

## Section 8 - Exposure Controls, Personal Protection

### Engineering Controls:

Provide local exhaust or general dilution ventilation.

### Exposure Limits

Chemical Name:	ACGIH	NIOSH	OSHA
Water	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Mercuric chloride	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.

### OSHA Vacated PELs

## Personal Protective Equipment

### Eyes:

Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.

### Skin:

Wear appropriate protective gloves to prevent skin exposure.

### Clothing:

Wear appropriate protective clothing to prevent skin exposure.

### Respirators:

Not required for normal use. Firefighting--any self-contained breathing apparatus with full facepiece operated in pressure-demand mode.

## Section 9 - Physical and Chemical Properties

**Physical State:** Clear liquid

**Color:** Colorless

**Odor:** Odorless

**pH:** Slightly acidic

**Vapor Pressure:** No information found.

**Vapor Density:** No information found.

**Evaporation Rate:** No information found.



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**Viscosity:** No information found.  
**Boiling Point:** > 212°F (> 100.00°C)  
**Freezing/Melting Point:** < 32°F (< 0.00°C)  
**Decomposition Temperature:** No information found.  
**Solubility in water:** Soluble.  
**Specific Gravity/Density:** 1.0  
**Molecular Formula:** No information found.  
**Molecular Weight:** No information found.

## Section 10 - Stability and Reactivity

### Chemical Stability:

Stable under normal temperatures and pressures.

### Conditions to Avoid:

Incompatible materials.

### Incompatibilities with Other Materials

Water reactive substances (e.g. sulfuric acid, sodium metal, potassium metal, calcium carbide).

### Hazardous Decomposition Products

If boiled to dryness, mercuric chloride will vaporize as a toxic fume at 575.6°F.

### Hazardous Polymerization

Has not been reported

## Section 11 - Toxicological Information

### RTECS:

CAS# 7732-18-5: ZC0110000.

CAS# 7487-94-7: OV9100000.

### LD50/LC50:

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg.

CAS# 7487-94-7:

Oral, mouse: LD50 = 6 mg/kg

Oral, rat: LD50 = 1 mg/kg

Skin, rat: LD50 = 41 mg/kg.

### Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 7487-94-7: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.



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**Epidemiology:**  
**Teratogenicity:**  
**Reproductive:**  
**Mutagenicity:**  
**Neurotoxicity:**

**Section 12 - Ecological Information**

No information found.

**Section 13 - Disposal Considerations**

Dispose of in accordance with Federal, State, and local regulations.

**Section 14 - Transport Information**

**US DOT**

**Shipping Name:** Mercury compounds, liquid, n.o.s.  
(Mercuric chloride)

**Hazard Class:** 6.1

**UN Number:** UN2024

**Packing Group:** PG II

**Section 15 - Regulatory Information**

**US Federal**

**TSCA**

CAS#7732-18-5 is listed on the TSCA Inventory.  
CAS#7487-94-7 is listed on the TSCA Inventory.

**SARA Reportable Quantities (RQ)**

None of the components are on this list.

**CERCLA/SARA Section 313**

None of the components are on this list.

**OSHA - Highly Hazardous**

None of the components are on this list.

**US State**

**State Right to Know**

Mercuric chloride can be found on the following state Right-to-Know lists: New Jersey, Florida, Pennsylvania, Massachusetts.



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**California Regulations**

**European/International Regulations**

**Canadian DSL/NDSL**

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 7487-94-7 is listed on Canada's DSL List.

**Canada Ingredient Disclosure List**

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 7487-94-7 is listed on Canada's Ingredient Disclosure List.

**Section 16 - Other Information**

MSDS Creation Date: January 31, 1999

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