

**IMPORTANT**

**MATERIAL SAFETY DATA SHEET**

READ CAREFULLY BEFORE USING CHEMICAL.  
OSHA requires that this form be kept on file.

Product No. C4180R

Product Name MERCURY (II) CHLORIDE

**24 HOUR EMERGENCY ASSISTANCE**  
CHEMTREC 800-424-9300

**HAZARD RATING**

4-EXTREME	Health Hazard	4
3-SEVERE	Flammability	0
2-MODERATE	Reactivity	1
1-SLIGHT		
0-MINIMAL		

**SECTION I NAME**

Chemical Synonyms Mercury Bichloride

Formula HgCl<sub>2</sub>

C.A.S. No. 7487-94-7

**SECTION II HAZARDOUS INGREDIENTS OF MIXTURES**

Principal Hazardous Component(s)	%	P.E.L.	TLV Units
Mercuric Chloride*	100%	None Established	0.1 mg/m <sup>3</sup> (asHg) TWA

\* chemical subject to the reporting requirements of SARA Title III.

**SECTION III PHYSICAL DATA**

Melting Point (°F)	277°C. Sublimes	Specific Gravity (H <sub>2</sub> O=1)	5.4
Boiling Point (°F)	302°C. Sublimes	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	Slight		
Appearance & Odor	White crystals, no odor.		

**SECTION IV FIRE AND EXPLOSION HAZARD DATA**

Flash Point (Method Used)	N/A	Flammable Limits in Air % by Volume	Lower	Upper
Extinguisher Media	Use any medium suitable for extinguishing supporting fire.		N/A	N/A

**Special Firefighting Procedures**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with a full facepiece operated in the pressure demand or other positive pressure mode.

**Unusual Fire and Explosion Hazards**

Not considered to be a fire/explosion hazard.

D.O.T. Mercuric chloride, 6.1, UN1524, PGII

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

**SECTION V HEALTH HAZARD DATA**

Threshold Limit Value

0.1 mg/m<sup>3</sup> (as Hg) TWA

**Effects of Overexposure**

Highly toxic! Systemic metal poisoning hazard. Irritation by all exposure routes.

**Emergency and First Aid Procedures**

Skin: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately. Eyes: Wash eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately. Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, use oxygen. Call a physician immediately. If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Call a physician immediately.

**SECTION VI REACTIVITY DATA**

**Stability** Conditions to Avoid

Stable  Unstable  None

Incompatibility (Materials to Avoid)

Potassium, sodium.

Hazardous Decomposition Products

Mercury and chloride fumes.

Hazardous Polymerization

Conditions to Avoid

May Occur  Will Not Occur  None

**SECTION VII SPILL OR LEAK PROCEDURES**

**Steps to be Taken in Case Material is Released or Spilled**

Ventilate area of leak or spill. Clean-up personnel may require protective clothing and respiratory protection from dust. Spills: Sweep up and containerize for reclamation or disposal. Avoid dust dispersal.

**Waste Disposal Method**

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Disposal: Whatever cannot be saved for reclamation may be disposed in a RCRA approved hazardous waste facility. Do not flush to the sewer.

**SECTION VIII SPECIAL PROTECTION INFORMATION**

**Respiration Protection (Specify Type)**

Dust

Ventilation	Local Exhaust		Special
	Mechanical (General)	X	Other
		X	

Protective Gloves Rubber

Eye Protection Goggles

Other Protective Equipment Apron

**SECTION IX SPECIAL PRECAUTIONS**

**Precautions to be Taken in Handling & Storing**

Keep container tightly closed when not in use.

See Section VI

**Other Precautions**

Read label on container before using. Do not wear contact lenses when working with chemicals.

None

Approved by Steven C. Quandt Effective Date 12-30-97

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees.