

Last Revision Date: 3/25/2013

### SECTION 1 - CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Catalog Number: N-11940  
Description: Ethylmercuric chloride  
Other Names: Chloroethylmercury/Ceresan(TM)

Supplied by CHEM SERVICE, Inc. PO BOX 599, WEST CHESTER, PA 19381  
(610)-692-3026  
EMERGENCY PHONE: 1-610-692-3026

### SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS: 107-27-7  
Description: Ethylmercuric chloride  
EINECS No: 203-478-0  
Hazard Symbols: T+ N  
Molecular Weight: 265.11  
Molecular Formula: C<sub>2</sub> H<sub>5</sub> Cl Hg

### SECTION 3 - HAZARDS IDENTIFICATION

Contact lenses should not be worn in the laboratory  
May be fatal if absorbed through the skin! May be fatal if inhaled! May be fatal if swallowed!  
Possible cumulative poison.  
Based on the toxicity of compounds of similar structure this material is probably highly hazardous.  
Can cause nervous system injury. Can cause severe skin burns.

### SECTION 4 - FIRST AID MEASURES

An antidote is a substance intended to counteract the effect of a poison. It should be administered only by a physician or trained emergency personnel. Medical advice can be obtained from a POISON CONTROL CENTER.

In case of contact: Flush eyes continuously with water for 15-20 minutes. Flush skin with water for 15-20 minutes. If no burns have occurred-use soap and water to cleanse skin. If inhaled remove patient to fresh air. Administer oxygen if patient is having difficulty breathing. If patient has stopped breathing administer artificial respirations. If patient is in cardiac arrest administer CPR. Continue life supporting measures until medical assistance has arrived. Remove and wash contaminated clothing. If patient is exhibiting signs of shock - Keep warm and quiet. Contact Poison Control Center immediately if necessary. Do not administer liquids or induce vomiting to an unconscious or convulsing person. If patient is vomiting-watch closely to make sure airway does not become obstructed by vomit. Get medical attention if necessary.

### SECTION 5 - FIRE AND EXPLOSION DATA

Flash Point: N/A  
Extinguishing Media: Carbon dioxide, dry chemical powder or spray.

Upper Explosion Limit: N/A  
Lower Explosion Limit: N/A  
Auto Ignition: N/A

NFPA Hazard Rating:  
Health 4  
Flammability 0  
Reactivity 0  
Special

0 - Least, 1 - Slight, 2 - Moderate, 3 - High, 4 - Severe

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Spills or leaks: Evacuate area. Wear appropriate OSHA regulated equipment. Ventilate area. Absorb on vermiculite or similar material. Sweep up and place in an appropriate container. Hold for disposal. Wash contaminated surfaces to remove any residues. Remove contaminated clothing and wash before reuse.

**SECTION 7 - HANDLING AND STORAGE**Handling:

This chemical should be handled only in a hood. Eye shields should be worn. Use appropriate OSHA/MSHA approved safety equipment. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Wash thoroughly after handling.

Storage:

Store in a cool dry place. Store only with compatible chemicals. Keep tightly closed.

**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**OSHA PEL (TWA):ACGIH TLV (TWA):ACGIH TLV (STEL):0.01 mg/m<sup>3</sup>0.01 mg/m<sup>3</sup>0.03 mg/m<sup>3</sup>

Personal Protective Equipment

Eyes: Wear Safety Glasses.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 requirements must be followed whenever workplace conditions warrant a respirator's use.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Color: White to silver  
Phase: Crystalline solid  
Melting Point: 193 C  
Boiling Point: N/A  
Specific Gravity: 3.482 g/cm<sup>3</sup>  
Vapor Density: N/A  
Vapor Pressure: N/A  
Solubility in water: Insoluble (immiscible)  
Odor: N/A  
Evaporation Rate: N/A  
Molecular Weight: 265.11  
Molecular Formula: C<sub>2</sub>H<sub>5</sub>ClHg

**SECTION 10 - STABILITY AND REACTIVITY**

Low reactivity.

Avoid strong oxidizing agents

Stable under recommended storage conditions.

Sensitive to light.

Sublimes easily.

**SECTION 11 - TOXICOLOGY INFORMATION**

RTECS: OV9800000

Oral Rat or Mouse LD50:  
40 mg/kgDermal Rat or Mouse LD50:  
200 mg/kgRat or Mouse LC50:  
4 h - 689 mg/m<sup>3</sup>

Carcinogenicity

OSHA:  
NoNTP:  
NoIARC:  
NoCARC:  
NoNIOSH:  
NoACGIH:  
No

California Proposition 65 info: Not Listed

**SECTION 12 - ECOLOGICAL INFORMATION**Ecotoxicity: Toxicity to fish LC50 - *Gambusia affinis* (Mosquito fish) - 0.044 mg/l - 96 h

Environmental Fate: Not Available

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Dispose in accordance with Federal, State and Local regulations.

**SECTION 14 - TRANSPORTATION INFORMATION**UN Number:Class:Packing Group:Proper Shipping Name:

UN2025

6.1

II

Mercury compounds, solid, n.o.s.  
(Ethylmercury chloride)**SECTION 15 - REGULATORY INFORMATION**

European Labeling in Accordance with EC Directives

Hazard Symbols: T+ N

Risk Phrases: -R26/27/28: Very Toxic by inhalation, in contact with skin and if swallowed.

-R33: Danger of cumulative effects.

-R50: Very toxic to aquatic organisms.

-R53: May cause long term adverse effects in the aquatic environment.

Safety Phrases: -S13: Keep away from food, drink and animal feeding stuffs.

-S28: After contact with skin, wash immediately with plenty of water.

-S36: Wear suitable protective clothing.

-S45: In case of accident or if you feel unwell, seek medical advice immediately  
(show label where possible).

-S60: This material and/or its container must be disposed of as hazardous waste

-S61: Avoid release to the environment. Refer to special instructions safety data  
sheet

**SECTION 16 - OTHER INFORMATION**

The above information is believed to be correct on the date it was last revised and must not be considered all inclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. OSHA regulations require that if other hazards become evident, an upgraded MSDS must be made available to the employee within three months. RESPONSIBILITY for updates lies with the employer and not with CHEM SERVICE, Inc.

Persons not specifically and properly trained should not handle this chemical or its container. This product is furnished FOR LABORATORY USE ONLY! Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticide products, food additives or as household chemicals.

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