

# MATERIAL SAFETY DATA SHEET

Mercuric Acetate

## SECTION 1 . Product and Company Identification

Product Name and Synonym: Mercuric Acetate  
Product Code: M2115  
Material Uses:  
Manufacturer: Science Stuff  
1104 Newport Ave  
  
Austin, TX 78753  
(512) 837-6020  
Entry Date : 6/11/2013  
Print Date: 6/11/2013  
24 Hour Emergency Assistance : Chemtrec 800-424-9300  
Canutec 613-996-6666

Health:	3
Flammability:	1
Reactivity:	0
Hazard Rating: Least Slight Moderate High Extreme 0 1 2 3 4 NA=Not Applicable NE=Not Established	

## SECTION 2 HAZARD IDENTIFICATION

May be fatal if inhaled, swallowed or absorbed thru the skin Avoid all contact. Use with adequate ventilation. Wash thoroughly after use. Keep container closed.

Physical state: Solid. [Crystalline granules.]  
OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Emergency overview:

DANGER!  
CAUSES SEVERE EYE AND SKIN IRRITATION  
CAUSES RESPIRATORY TRACT IRRITATION  
MAY BE FATAL IF INHALED, ABSORBED THROUGH SKIN OR SWALLOWED.  
MAY CAUSE EYE INJURY  
CAUSES DAMAGE TO THE FOLLOWING ORGANS:  
KIDNEYS, SKIN, EYES, LENS OR CORNEA,  
CENTRAL NERVOUS SYSTEM, PERIPHERAL NERVOUS SYSTEM.

WARNING: this product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

Do not ingest. Do not get in eyes or on skin or clothing. Do not breathe dust. Keep container closed. Use only adequate ventilation. Wash thoroughly after handling.

Routes of entry:  
Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects:

Eyes: Severely irritating to eyes. May cause eye injury.  
Skin: Very toxic in contact with skin. Severely irritating to skin.  
Inhalation: Very toxic by inhalation. Irritating to respiratory system.  
Ingestion: Very toxic if swallowed.  
Carcinogenicity: No known significant effects or critical hazards.  
Mutagenicity: No known significant effects or critical hazards.  
Teratogenicity/ Reproductive toxicity: No known significant effects or critical hazards.

Medical conditions aggravated by over-exposure:  
Repeated skin exposure can produce local skin destruction or dermatitis. Repeated or

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prolonged exposure to the substance can produce lung damage.  
Repeated or prolonged exposure to the substance can produce target organs damage.  
Repeated exposure of the eyes to a low level of dust can produce eye irritation.

### SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input checked="" type="checkbox"/>	Mercuric Acetate	CAS# 1600-27-7	100%	W/W	TWA 0.05 mg(HG)/mf

### SECTION 4 FIRST AID MEASURES

May be fatal if inhaled, swallowed or absorbed thru the skin Avoid all contact. Use with adequate ventilation. Wash thoroughly after use. Keep container closed.

FIRST AID: CALL A PHYSICIAN. SKIN: In case of contact, immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse.

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person.

### SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type:	Water spray, Carbon dioxide, dry chemical, powder, foam.
Fire / Explosion Hazards:	May emit toxic fumes in a fire condition
Fire Fighting Procedure:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

### SECTION 6 ACCIDENTAL RELEASE MEASURES

Evacuate area. Wear self-contained breathing apparatus and protective clothing. Sweep up and place in bag for waste disposal. Avoid raising dust. Contact a licensed professional waste disposal service to dispose of this material.

Personal precautions: Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Methods for cleaning up: If emergency personnel are unavailable, vacuum or carefully scoop up material and place in an appropriate container for disposal by incineration. Avoid creating dusty conditions and prevent wind dispersal.

### SECTION 7 HANDLING AND STORAGE

Wear appropriate NIOSH/MSHA-Approved respirator, Chemical-resistant gloves, safety goggles. Do not breathe dust. Avoid contact with skin, eyes and clothing.  
Corrosive, Sensitizer. Discard contaminated clothing.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection:	NIOSH/MSHA-approved respirator
Ventilation	Local Exhaust <input type="checkbox"/>

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Protective Gloves: Mechanical   
NIOSH Approved Gloves

Eye Protection: Splash Goggles

Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

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NIOSH REL (United States, 12/2001). Skin Notes: as Hg  
CEIL: 0.1 mg/m<sup>3</sup> Form: Other than Hg Vapor  
TWA: 0.05 mg/m<sup>3</sup> 10 hour(s) Form: Hg Vapor See Table Z-2  
Ceil: 0.1 mg/m<sup>3</sup>

Consult local authorities for acceptable exposure limits.

Engineering measures: Use only with adequate ventilation. If user operations generate dust, fumes, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal Protection

Eyes: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Recommended: face shield safety glasses with side-shields

Skin: Personal protective equipment for the body should be selected based on the task being performed and risks involved and should be approved by a specialist before handling this product.

Body recommended:  
lab coat

Respiratory: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Recommended: nitrile rubber

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Melting Point:	179 - 182° C	Percent Volatile by Volume:	0
Boiling Point:	Information	Evaporation Rate	not available

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Vapor Pressure:	not available	Information not available	Evaporation Standard
Vapor Density:	Information not available	Auto Ignition Temp	Not applicable
Solubility in Water:	information not available	Lower Flamm. Limit in Air	Not applicable
Appearance /Odors:	White to off white odorless powder	Upper Flamm. Limit in Air	Not applicable
Flash Point:	not available		
Specific Gravity:	not available		

**SECTION 10 STABILITY AND REACTIVITY INFORMATION**

Stability:	Stable
Conditions to Avoid:	May decompose on exposure to light
Materials to Avoid:	Strong oxidizing agents, strong acids.
Hazardous Decomposition Products:	Mercury oxides, carbon monoxide, carbon dioxide
Hazardous polymerization:	Will Not Occur
Conditions to Avoid:	None known

**SECTION 11 Toxicological Information**

Mercuric Acetate

LD50 570 mg/kg Dermal Rat

Chronic effects on humans: CARCINOGENIC EFFECTS 3 (Not classifiable for humans.) by IARC. Causes damage to the following organs: kidneys, peripheral nervous system, skin, central nervous system (CNS), eye, lens or cornea.

Other toxic effects on humans: Extremely hazardous in case of skin contact(permeator), of ingestion. Very haardous in case of skin contact (irritant), of eye contact (irritant), of inhalation (lung irritant).

Specific effects

Carcinogenic effects: No known significant effects or critical hazards

Mutagenic effects: No known significant effects or critical hazards

Teratogenicity/Reproductive toxicity: No known significant effects or critical hazards

Sensitization

Ingestion: No known significant effects or critical hazards

Inhalation: Irritating to respiratory system.

Eyes: Severely irritating to eyes. May cause eye injury.

Skin: Severely irritating to the skin.

**SECTION 12 Ecological Information**

Mercuric Acetate

Pimephales promelas (LC50)	96 hour(s)	0.04 mg/l
Pimephales promelas (LC50)	96 hour(s)	0.119 mg/l
Pimephales promelas (LC50)	96 hour(s)	0.12 mg/l
Cyprinus carpio (LC50)	96 hour(s)	0.5 mg/l

Environmental precautions:

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environmental.

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Products of degradation: These products are carbon oxides (CO, CO<sub>2</sub>) and water, Some metallic oxides.  
The products of degradation are less toxic than the product itself.  
Toxicity of the products of biodegradation:

### SECTION 13 Disposal Considerations

Waste disposal: the generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-product should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

### SECTION 14 Transport Information

DOT Classification: UN1629, Mercury Acetate, 6.1, PG II, Marine Pollutant

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

### SECTION 15 Regulatory Information

United States

HCS Classification:  
Target organ effects  
Irritating material  
Highly toxic material

U.S. Federal regulations:

United States inventory (TSCA 8b): listed  
TSCA (Toxic Substance Control Act): This product is listed on the TSCA Inventory.  
SARA 302/304/311/312 extremely hazardous substances: Mercuric Acetate  
SARA 302/304 emergency planning and notifications: Mercuric Acetate  
SARA 302/304/311/312 hazardous chemicals: Mercuric Acetate  
SARA 311/312 MSDS distribution- Chemical inventory- hazard identification: Mercuric Acetate  
Immediate (acute) health hazard, Delayed (chronic) health hazard  
Clean Water Act (CWA) 307: Mercuric Acetate  
Clean Water Act (CWA) 311: No products were found  
Clean Air Act (CAA) 112 accidental release prevention: No products were found.  
Clean Air Act (CAA) 112 regulated flammable substance: No products were found.  
Clean Air Act (CAA) 112 regulated toxic substance: No products were found.

SARA 313  
Form R – Reporting Requirements: Mercuric Acetate  
CAS number : 1600-27-7 Concentration : 100

Supplier notification : Mercuric Acetate  
CAS number : 1600-27-7 Concentration : 100

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

State regulations: No products were found  
Pennsylvania RTK: Mercuric Acetate  
(environmental hazard, generic environmental hazard); Formaldehyde (special hazard, environmental hazard, generic environmental hazard);  
Massachusetts RTK: Mercuric Acetate  
New Jersey: Mercuric Acetate

Ingredient name: Mercuric Acetate  
Cancer: No Reproductive: Yes No significant risk level: No Maximum acceptable dosage level: No

Canada  
WHMIS (Canada)

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:  
Class D-1B: Material causing immediate and serious toxic effects (Toxic)  
Class D-2B: Material causing other toxic effects (Toxic)  
CEPA DSL/ CEPA NDSL : CEPA DSL: Mercuric Acetate

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**SECTION 16**

**Additional Information**

Flammability

Health

Reactivity

**Revisions**

**NFPA**

0.1

The information herein is believed to be accurate and is offered in good faith for the user's consideration and investigation. No warranty either expressed or implied is made for the completeness or accuracy of the information whether originating from the above mentioned company or not. Users of this material should satisfy themselves by independent investigation of current scientific and medical knowledge that the material can be used safely.