



MATERIAL SAFETY DATA SHEETS

359

Mercury acetate

1. CHEMICAL IDENTITY

Chemical Name : Mercury acetate

Chemical Classification: Toxic

Trade Name :

Synonyms: Mercuric acetate, Mercury di(acetate), Bis(acetyloxy)Mercury, Diacetoxymercury

Formula : C₄H₆HgO₄

CAS No: 1600-27-7

UN No: 1629

Regulated Identification

Shipping Name :

Hazchem Code : 2X

Codes / Label : Class 6.1, Toxic

Hazardous Waste ID No :

HAZARDOUS INGREDIENTS	C.A.S. No.	HAZARDOUS INGREDIENTS	C.A.S. No.
1 Mercury acetate	1600-27-7	3	
2		4	

2. PHYSICAL / CHEMICAL DATA

Boiling Pt. °C:

Physical State: Solid

Appearance: White-yellow crystals or powder

Melting Pt °C: 179 deg C (decompose s)

Vapour Pressure @ 35°C mmHg: 0.0012

Odour: Mild vinegar-like odour

Vapour Density(Air =1): 11.0

Solubility in water at 30°C g/100ml: 2.50X10+5 mg/l @ 10 deg C

Others: Soluble in diethyl ether and ethanol.

Specific Gravity (Water =1): 3.28

pH :

3. FIRE / EXPLOSION HAZARD DATA

Flammability :

LEL:

Flash Point °C in OC:

TDG Flammability:

UEL:

Flash Point °C in CC:

Autoignition Temperature °C :

Explosion sensitivity to impact:

Explosion sensitivity to static Electricity:

Hazardous Combustion Products : Smoke may contain toxic mercury or mercury oxide fumes

Hazardous Polymerization :

Combustible Liquid:

Explosive Material:

Corrosive Material

Flammable Material:

Oxidiser :

Others:

Pyrophoric Material:

Organic Peroxide :

4. REACTIVITY DATA

Chemical Stability : Stable under normal temperatures and pressures.

Incompatibility with other material : Strong oxidizing agents - strong acids.

Reactivity :

Hazardous Reaction Products : Carbon monoxide, carbon dioxide, mercury/mercury oxides.

5. HEALTH HAZARD DATA

Routes of entry: Inhalation, Ingestion, Skin and Eyes

Effects of Exposure / Symptoms:

Inhalation : Harmful if inhaled. Irritation may lead to chemical pneumonitis and pulmonary edema. May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema. May cause effects similar to those described for ingestion. **Ingestion :** May be fatal if swallowed. May cause irritation of the digestive tract. Poison by ingestion. May cause kidney damage. May cause severe digestive tract irritation with abdominal pain, nausea, vomiting and diarrhea. May cause corrosion and permanent tissue destruction of the esophagus and digestive tract. Based on data relating to inorganic mercury compounds it may cause adverse nervous system effects and possible damage. Acute mercury poisoning can produce sudden and profound circulatory collapse with tachycardia, hypotension, and peripheral vasoconstriction, vomiting, and bloody diarrhea. It can be a corrosive and a nephrotoxic. Salivation, metallic taste, abdominal pain, seizures, proteinuria, nephrotic syndrome (oliguria and anuria) may occur. Ingestion can produce central nervous effects as well as peripheral nervous system effects. Ingestion may produce effects on the brain including tremors, irritability and sensitivity, xenophobia, insomnia, hallucinations, and ma **Skin :** Harmful if absorbed through the skin. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. May be absorbed through the skin. May cause skin discoloration. Causes severe skin irritation and possible burns. **Eye :** Contact may cause severe eye irritation and possible eye damage.

Emergency Treatment :

Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

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

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

LD50 (oral-rat) mg/kg: 23.9 mg/kg (mouse)	STEL:
LC50 (rat) mg/kg:	Odour Threshold:
Permissible Exposure Limit:	TLV (ACGIH) : 0.1 mg/m ³ , skin

NFPA Hazard Signals	Health	Flammability	Reactivity	Special
	3	0	0	

6. PREVENTIVE MEASURES

Personal Protective Equipment : Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA s eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin: Wear appropriate protective gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to prevent skin exposure.

Handling : Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Do not ingest or inhale. Store protected from light. Use only in a chemical fume hood.

Storage : Do not store in direct sunlight. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Poison room locked.

Precautions :

7. EMERGENCY / FIRST AID MEASURES

FIRE:

Fire Extinguishing Media :

Special Procedure : Avoid breathing dusts, and fumes from burning material. Keep upwind. Avoid bodily contact with the material. Wear boots, protective gloves, and goggles. Do not handle broken packages without protective equipment.

Unusual Hazards : When heated to decomposition, it emits toxic fumes of mercury

EXPOSURE: First Aid Measures:

Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

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

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Antidotes / Dosages:

SPILLS :

Steps To Be Taken : Vacuum or sweep up material and place into a suitable disposal container. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions.

Waste Disposal Method:

8. ADDITIONAL INFORMATION / REFERENCES

9. MANUFACTURERS / SUPPLIERS DATA

NAME OF FIRM :	Contact person
MAILING ADDRESS :	in Emergency :
TELEPHONE / TELEX NOS :	Local Bodies involved :
TELEGRAPHIC ADDRESS :	Standard Packing :
OTHERS :	Trem Card Details / Ref :

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