MERCURIC ACETATE
MATERIAL SAFETY DATA SHEET

INTEGRA Chemical Company
1216 6th Ave N
Kent WA 98032
Phone: 253-479-7000

24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887)

Product Identification

Product Name: MERCURIC ACETATE
Synonyms: Mercuric diacetate; Acetic acid, mercury salt; Mercuriacetate
Chemical Formula: Hg(C2H3O2)2
Formula Weight: 318.70

Product Identification

Component CAS # %
Mercuric acetate 01600-27-7 100

Physical Data

Boiling Point: NA Specific Gravity: 3.27 Water=1
Melting Point: (dec) 178-180 °C Evaporation Rate: NA
Vapor Pressure: NA Vapor Density: 11.0 Air = 1
Solubility:
25g/100 ml water @10°C

Physical Data

Fire and Explosion Data

Flash Point: NA Test Method:
Auto-ignition Temperature: NA
Flammable Limits (% by volume in air): Upper: NA Lower: NA

Fire and Explosion Data

Use extinguishing media appropriate for surrounding fire.

Special Firefighting Procedures:
Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.

Unusual Fire and Explosion Hazards:
None identified

Health Hazard Information

Effects of Overexposure

Skin Contact:
Contact may cause irritation or burns. Material may be absorbed through the skin in harmful amounts.
Health Hazard Information

Effects of Overexposure

Skin Contact:
Poisoning symptoms will be similar to those outlined under ingestion.

Eye Contact:
Contact may burn or damage the eyes.

Ingestion:
Harmful or fatal if swallowed. Average lethal dose for inorganic mercury salts is approximately 1 gram. May cause burning to the mouth and throat, abdominal pain, vomiting, corrosive ulcerations and bloody diarrhea. May be followed by rapid and weak pulse, shallow breathing, paleness, exhaustion, central nervous system problems, tremors and collapse. Delayed death may occur from renal failure.

Inhalation:
Harmful if inhaled. Irritating to the nose and throat and respiratory system. Overexposure may cause coughing, difficulty in breathing and chest pains. Material may be absorbed in harmful amounts through the respiratory system. Symptoms will be similar to those outlined under ingestion.

Chronic Effects of Overexposure:
Chronic exposure through any route can produce central nervous system damage. May cause muscle tremors, personality disorders, memory loss, metallic taste, loose teeth, digestive disorders, skin rashes, brain damage and kidney damage. Mercury may accumulate in the body building up to toxic levels with exposure over time. Can cause a dermal allergic reaction.

Exposure Limits:

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA PEL</th>
<th>TWA</th>
<th>STEL</th>
<th>Ceiling</th>
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<tbody>
<tr>
<td>Mercuric acetate</td>
<td>(as Hg) 0.01 mg/m³</td>
<td>NE</td>
<td>NE</td>
<td>(as Hg) 1 mg/m³</td>
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<tr>
<td>Mercuric acetate</td>
<td>(as Hg) 0.03 mg/m³</td>
<td>NE</td>
<td>TWA</td>
<td>STEL</td>
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</tbody>
</table>

Toxicity Data:

- Mercuric acetate: LD50 (oral, rat) 40.9 mg/kg

Medical Conditions Generally Aggravated by Exposure:
- Respiratory, skin, liver and kidney conditions.

Target Organs:
- CNS, liver, kidneys, skin.

Reproductive Effects:
- May damage the developing fetus and decrease fertility in both males and females.

Carcinogenicity:
- None Identified

Emergency First Aid Procedures

Skin Contact:
Immediately remove contaminated clothing. Flush skin with water for at least 15 minutes. Seek immediate medical attention.

Eye Contact:
Emergency First Aid Procedures

Eye Contact:
Flush with water for at least 15 minutes. Seek immediate medical attention.

Inhalation:
Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult administer oxygen. Seek medical attention.

Ingestion:
Do not induce vomiting. If victim is conscious, give water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Additional First aid and Treatment Notes:
No information available

Reactivity Data

Stability: Stable
Hazardous Polymerization: Will Not Occur
Incompatibles:

Decomposition Products:
Toxic mercury vapors.

Conditions to Avoid:
Excessive heat and exposure to light.

Spill and Disposal Procedures

Spill and Leak Procedures:
Prevent spread of spill. Wear full protective equipment and respiratory protection. Sweep or scoop into a suitable disposal container in a manner that does not generate dusts. Save for reclamation or disposal. Treat spill area with sulfur or calcium polysulfide to take up mercury. Do not flush residues to sewer or storm drain.

Disposal Procedures:
Dispose in accordance with all Local, State and Federal regulations.

Protective Equipment

Ventilation:
Use general or local exhaust ventilation to meet TLV and PEL requirements.

Respiratory Protection:
If airborne concentration exceeds PEL or TLV use full facepiece respirator with a dust/mist filter. In emergency situations or when the airborne concentration is unknown, a full facepiece, positive-pressure, air-supplied respirator should be worn.

Skin and Eye Protective Equipment:
Safety goggles, protective clothing and gloves. Maintain an eyewash station and safety shower nearby.

Storage and Handling Precautions

Storage Area: HEALTH HAZARD
Store in a cool, dry well-ventilated area or cabinet dedicated to toxic storage. Isolate away from incompatible materials. Light and air sensitive Keep containers well closed.
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Transportation Information

☑ Regulated Material domestic ground transportation
  (reference: CFR Title 49, Transportation)
  Proper Shipping Name: Mercury acetate
  UN or NA Identification number: UN1629  Hazard Class and Label: 6.1 Toxic
  Packing Group: II Subsidiary Risk and Label:

☑ Regulated Material via Air Transportation
  (reference: ICAO Technical Instructions for the Safe Transport of Dangerous Goods by Air)
  Proper Shipping Name: Mercury acetate
  UN Identification Number: UN1629  Hazard Class and Label: 6.1 Toxic
  Packing Group: II Subsidiary Risk and Label:

  Packing Instruction    Max net qty per package
  Passenger Aircraft: 613/Y613  25/1kg
  Cargo Aircraft: 615  100kg

Regulatory Information

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<tr>
<th>Component</th>
<th>TSCA Inventory</th>
<th>CERCLA RQ</th>
<th>SARA EHS TPQ</th>
<th>SARA 313 Toxic Release</th>
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MSDS Revision History:
002 - Changed header phone number
003 - Format revisions; updated header phone number
004 - Updated Header Information

NE = Not established, NA = Not applicable or Not available
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***** END OF MSDS *****