



## SAFETY DATA SHEET

### 1. Identification

|   |  |
|---|--|
| <b>Product Name</b>                                     | <b>Mercuric Chloride (Certified ACS)</b>       |
| <b>Cat No. :</b>  | <b>M155I-3; M155I-50; M155I-100; M155I-500</b> |
| <b>Synonyms</b>   | Mercuric chloride                              |
| <b>Recommended Use</b>                                  | Laboratory chemicals                           |
| <b>Uses advised against</b>                             | No Information available                       |
| <u>Details of the supplier of the safety data sheet</u> |  |

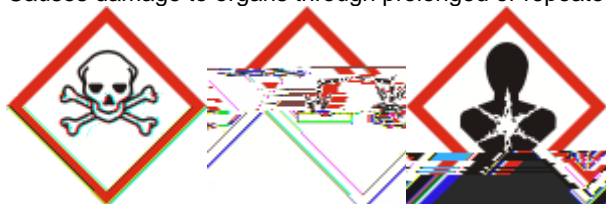
### 2. Hazard(s) Identification

#### Classification

1. Identification

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Fatal if swallowed  
Fatal in contact with skin  
Causes severe skin burns and eye damage  
Suspected of causing genetic defects  
Suspected of damaging fertility  
May cause respiratory irritation  
Causes damage to organs through prolonged or repeated exposure



### **Precautionary Statements**

#### **Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Do not get in eyes, on skin, or on clothing  
Do not breathe dust/fume/gas/mist/vapors/spray

#### **Response**

Immediately call a POISON CENTER or doctor/physician

#### **Inhalation**

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## 4. First-aid measures

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**Methods for Containment and Clean Up** Wear self-contained breathing apparatus and protective suit. Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

## 7. Handling and storage

**Handling** Use only under a chemical fume hood. Wear personal protective equipment. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Do not ingest.

**Storage** Keep away from direct sunlight. Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. Exposure controls / personal protection

### Exposure Guidelines

**Component**  
Mercuric chloride

**ACGIH TLV**  
TWA: 0.025 mg/m<sup>3</sup>  
Skin

**OSHA PEL**  
(Vacated) Ceiling: 0.1 mg/m<sup>3</sup>

**NIOSH IDLH**  
IDLH: 10 mg/m<sup>3</sup>  
TWA: 0.05 mg/m<sup>3</sup>  
Ceiling: 0.1 mg/m<sup>3</sup>

**Component**  
Mercuric chloride

**Quebec**  
TWA: 0.025 mg/m<sup>3</sup>  
Skin

**Mexico OEL (TWA)**  
TWA: 0.05 mg/m<sup>3</sup>

**Ontario TWAEV**  
TWA: 0.025 mg/m<sup>3</sup>  
Skin

### Legend

**ACGIH** - American Conference of Governmental Industrial Hygienists

**OSHA** - Occupational Safety and Health Administration

**NIOSH IDLH**: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

**Engineering Measures** Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal Protective Equipment

**Eye/face Protection** Wear appropriate protective eyeglasses or c

## 9. Physical and chemical properties

|  |                           |
|--|---------------------------|
| Vapor Pressure                         | No information available. |
| Vapor Density                          | No information available. |
| Relative Density                       | 5.44 @ 25°C               |
| Solubility                             | No information available. |
| Partition coefficient; n-octanol/water | No data available         |
| Autoignition Temperature               | No information available. |
| Decomposition temperature              | No information available. |
| Viscosity                              | No information available. |
| Molecular Formula                      | Cl <sub>2</sub> Hg        |
| Molecular Weight                       | 271.5                     |

## 10. Stability and reactivity

|                                  |   |
|----------------------------------|---|
| Reactive Hazard                  | None known, based on information available.   |
| Stability                        | Stable under normal conditions. Light sensitive.  |
| Conditions to Avoid              | Avoid dust formation. Incompatible products. Excess heat. Exposure to light.                      |
| Incompatible Materials           | Organic materials, Acids, Bases, Strong oxidizing agents, Ammonia, Sulfides, lead, Metals, copper |
| Hazardous Decomposition Products | Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Highly toxic fumes                       |
| Hazardous Polymerization         | Hazardous polymerization does not occur.  |
| Hazardous Reactions              | None under normal processing  |

## 11. Toxicological information

### Acute Toxicity

#### Component Information

| Component         | LD50 Oral       | LD50 Dermal      | LC50 Inhalation |
|-------------------|-----------------|------------------|-----------------|
| Mercuric chloride | 1 mg/kg ( Rat ) | 41 mg/kg ( Rat ) | Not listed      |

|                                      |                           |
|--------------------------------------|---------------------------|
| Toxicologically Synergistic Products | No information available. |
|--------------------------------------|---------------------------|

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

|            |                                     |
|------------|-------------------------------------|
| Irritation | Causes burns by all exposure routes |
|------------|-------------------------------------|

|               |                           |
|---------------|---------------------------|
| Sensitization | No information available. |
|---------------|---------------------------|

|                 |   |
|-----------------|---|
| Carcinogenicity | The table below indicates whether each agency has listed any ingredient as a carcinogen |
|-----------------|---|

| Component         | CAS-No    | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|-------------------|-----------|------------|------------|------------|------------|------------|
| Mercuric chloride | 7487-94-7 | Not listed | Not listed | Not listed | Not listed | Not listed |

|                   |                                       |
|-------------------|---------------------------------------|
| Mutagenic Effects | Possible risk of irreversible effects |
|-------------------|---------------------------------------|

|                      |                                      |
|----------------------|--------------------------------------|
| Reproductive Effects | Possible risk of impaired fertility. |
|----------------------|--------------------------------------|

|                       |                           |
|-----------------------|---------------------------|
| Developmental Effects | No information available. |
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## 14. Transport information

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**Clean Air Act**

| Component         | HAPS Data | Class 1 Ozone Depletors | Class 2 Ozone Depletors |
|-------------------|-----------|-------------------------|-------------------------|
| Mercuric chloride | X         |                         | -                       |

**OSHA** Occupational Safety and Health Administration  
Not applicable

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Component         | Hazardous Substances RQs | CERCLA EHS RQs |
|-------------------|--------------------------|----------------|
| Mercuric chloride | -                        | 500 lb         |

**California Proposition 65**

This product contains the following Proposition 65 chemicals:

| Component         | CAS-No    | California Prop. 65 | Prop 65 NSRL |
|-------------------|-----------|---------------------|--------------|
| Mercuric chloride | 7487-94-7 | Developmental       | -            |

**State Right-to-Know**

| Component         | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|-------------------|---------------|------------|--------------|----------|--------------|
| Mercuric chloride | X             | X          | X            | X        | -            |

**U.S. Department of Transportation**

|                             |   |
|-----------------------------|---|
| Reportable Quantity (RQ):   | N |
| DOT Marine Pollutant        | N |
| DOT Severe Marine Pollutant | N |



