1 Identification of the substances/ mixture and of the company/ undertaking

1.1 Product Identifiers

Product Number: PCT1512
Product Name: Mercuric chloride, Plant Culture Tested
CAS No.: 7487-94-7
EC No.: 231-299-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant identified uses
Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Produced by: HiMedia Laboratories Private Limited
Address: 23, Vadhani Industrial Estate, LBS Marg, Ghatkopar (W), Mumbai - 400 086 India
Tel. No.: +91-22-2500 0970, +91-22-2500 1607
Fax No.: +91-22-2500 2468
Mail Id: info@himedialabs.com
Website: www.himedialabs.com

1.4 Emergency Tel. No.
Emergency Tel. No.: Please contact the regional HiMedia representation in your country

2 Hazards Identification

2.1 Classification of the substance or mixture

CLP Classification - Regulation (EC) No. 1272/2008[EU-GHS/CLP]
Acute toxicity, Oral, (Category 2), H300
Skin corrosion or irritation, (Category 1B), H314
Germ cell mutagenicity, (Category 2), H341
Reproductive toxicity, (Category 2), H361f
Specific target organ toxicity, repeated exposure, (Category 1), H372
Hazardous to the aquatic environment, long term hazard, (Category 1), H410

2.2 Label elements

Labeling according to Regulation (EC) No.1272/2008

Pictogram
Signal word Danger
Hazard Statement(s)
H300 Fatal if swallowed
H314 Causes severe skin burns and eye damage
H341 Suspected of causing genetic defects
H361f Suspected of damaging fertility.
H372 Causes damage to organs through prolonged or repeated exposure
H410 Very toxic to aquatic life with long lasting effects

Precautionary Statement(s)
P264 Wash hands thoroughly after handling. Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301 + 310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P310 Immediately call a POISON CENTER or doctor/physician.

2.3 Other Hazards
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3 Composition/Information On Ingredients

3.1 Substances
Synonym Mercury (II) chloride
Molecular Formula : HgCl₂
Molecular Weight : 271.5
CAS No. : 7487-94-7
EC No. : 231-299-8

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercuric chloride, Plant Culture Tested</td>
<td>As Per EC Regulation 1272/2008 Acute Tox.oral. 2; Skin Corr. 1B; Muta. 2; Repr. 2; STOT RE 1; Aquatic Chronic 1 H300; H314; H341; H361f; H372; H410</td>
<td>100%</td>
</tr>
</tbody>
</table>

For the full text of the H-Statements and classification mentioned in this Section, see Section 16

4 First Aid Measures
4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash with plenty of soap and water. Consult a physician.

In case of eye contact
Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 **Most important symptoms and effects, both acute and delayed**
The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

4.3 **Indication of immediate medical attention and special treatment needed**
No data available

5 **Fire Fighting Measures**

5.1 **Extinguishing media**

*Suitable extinguishing media*
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

*Unsuitable extinguishing media*
No data available.

5.2 **Special hazards arising from the substance or mixture**
Hydrogen chloride gas, Mercury/mercury oxides.

5.3 **Precautions for fire-fighters**
Wear self contained breathing apparatus for fire fighting if necessary

5.4 **Further information**
No data available

6 **Accidental Release Measures**

6.1 **Personal precautions, protective equipment and emergency procedures**
Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2 **Environmental precautions**
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into environment must be avoided.

6.3 **Methods and materials for containment and cleaning up**
Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 **Reference to other sections**
For disposal see Section 13.

7 **Handling and Storage**

7.1 **Precautions for safe handling**
Avoid contact with skin and eyes. Avoid inhalation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2

7.2 **Conditions for safe storage, including any incompatibilities**
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
7.3 Specific end uses
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8 Exposure Controls/Personal Protection

8.1 Control parameters
Components with workplace control parameters

8.2 Exposure controls
Appropriate engineering controls
Handle in accordance to general industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment
Hygiene measure
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the product.

Eye/face protection
Faceshield and safety goggles.

Skin protection
Handle with gloves.

Body protection
Complete suit protecting against chemicals.

Respiratory protection
Air-purifying respirators.

Environment exposure controls
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties
Appearance: White crystals or powder
Odour: No data available
Odour Threshold: No data available
pH: No data available
Melting/freezing point: No data available
Initial boiling point and boiling range: No data available
Flash point: No data available
Upper/lower flammability or explosive limits: No data available
Evaporation rate: No data available
Flammability (Solid, gas): No data available
Vapour pressure: No data available
Relative density: No data available
Water Solubility: No data available
Partition coefficient: n-octanol/water: No data available
Autoignition Temperature: No data available
Decomposition Temperature: No data available
Viscosity: No data available
Explosive properties: No data available
9.2 Other safety information
No data available

10 Stability and Reactivity
10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
Incompatible material

10.5 Incompatible materials
Strong oxidizing agents, Strong bases

10.6 Hazardous decomposition products
Other decomposition products - refer section 5.2.
In the event of fire - refer section 5.

11 Toxicological Information

11.1 Information on toxicological effects

Acute toxicity
No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
12 Ecological Information
12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 PBT and vPvB assessment
PBT and vPvB assessment not available Chemical safety assessment is not required

12.6 Other adverse effects
Discharge into the environment must be avoided.

13 Disposal Considerations
13.1 Waste treatments methods
Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustive solvent and burn in chemical incinerator equipped with an afterburner and scrubber.

13.2 Contaminated packaging
Dispose of as unused product.

14 Transport Information
14.1 UN-No
ADNR : 1624 ADR : 1624 IATA_C : 1624 IATA_P : 1624 IMDG : 1624 RID : 1624

14.2 UN proper shipping name
ADNR : Mercuric chloride
ADR : Mercuric chloride
IATA_C : Mercuric chloride
IATA_P : Mercuric chloride
IMDG : Mercuric chloride
RID : Mercuric chloride

14.3 Transport hazard class(es)

14.4 Packaging group
Environmental hazards
ADNR: No  ADR: No  IMDG: Marine Pollutant: Yes  IATA_C: No  IATA_P: No  RID: No

Special precautions for use
No data available

Regulatory Information
This safety datasheet complies with the requirements of Regulation(EC) No. 1907/2006.

Safety health and environment regulations/legislation specific for the substance or mixture
No data available

Chemical Safety Assessment
No data available

Other information
Text of H-Statements and EUH-Phrases mentioned in section 3

H300  Fatal if swallowed
H314  Causes severe skin burns and eye damage
H341  Suspected of causing genetic defects
H361f  Suspected of damaging fertility.
H372  Causes damage to organs through prolonged or repeated exposure
H410  Very toxic to aquatic life with long lasting effects
Acute Tox.oral. 2  Acute toxicity, oral, Category 2
Skin Corr. 1B  Skin corrosion or irritation, Category 1B
Muta. 2  Germ cell mutagenicity, Category 2
Repr. 2  Reproductive toxicity, Category 2
STOT RE 1  Specific target organ toxicity, repeated exposure, Category 1
Aquatic Chronic 1  Hazardous to the aquatic environment, long term hazard, Category 1

Further Information

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The information given in this safety data sheet is believed to be correct yet does not claim to be all inclusive. This document is intended only as a guide for appropriate precautionary handling of the material by properly trained individuals, information here being commensurate with the present state of our knowledge regarding the manner and conditions of use, handling, storage or disposal. The information provided herein shall not be considered as guarantee of the properties of the product. HiMedia Laboratories, shall not be held liable for any damage resulting from improper handling or contact with the above product. Unless explicitly stated on the product or in any of the documentation accompanying the product, it is intended for research or testing purpose only and is not to be used for any other purpose.