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# Mercurous Chloride CAS No 10112-91-1

# MATERIAL SAFETY DATA SHEET SDS/MSDS

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifiers Product name	:	Mercurous Chloride
	CAS-No.	:	10112-91-1
1.2	Relevant identified uses of the substance or mixture and uses advised against		
	Identified uses	:	Laboratory chemicals, Industrial & for professional use only.
1.3	<b>Details of the supplier of th</b> Company		safety data sheet Central Drug House (P) Ltd 7/28 Vardaan House New Delhi-10002 INDIA
	Telephone Email	:	+91 11 49404040 care@cdhfinechemical.com

**1.4 Emergency telephone number** Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

### **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 Acute toxicity, Oral (Category 4), H302

Acute toxicity, Dermal (Category 4), H312 Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 Respiratory sensitisation (Category 1), H334 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

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

# 2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 Pictogram



Signal word	Danger
Hazard statement(s) H302 + H312 H315 H319 H334 H335 H410	Harmful if swallowed or in contact with skin Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Very toxic to aquatic life with long lasting effects.
Precautionary statement(s) P261 P280 P284 P304 + P340	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wear protective gloves/ protective clothing. Wear respiratory protection. IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.
Supplemental Hazard Statements	none

# 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.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Synonyms	:	Calomel Mercurous chloride
Formula	:	Cl <sub>2Hg2</sub>
Molecular weight	:	472,09 g/mol
CAS-No.	:	10112-91-1
EC-No.	:	233-307-5
Index-No.	:	080-003-00-1

# Hazardous ingredients according to Regulation (EC) No 1272/2008

Classification	Concentration
Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; Resp. Sens. 1; STOT SE 3; Aquatic Acute 1; Aquatic Chronic 1; H302, H312, H315, H319, H334, H335, H400, H410 M-Factor - Aquatic Acute: 100	<= 100 %
·1	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; Resp. Sens. 1; STOT SE 3; Aquatic Acute 1; Aquatic Chronic 1; H302, H312, H315, H319, H334, H335, H400, H410

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

# **SECTION 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 off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

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 labelling (see section 2.2) and/or in section 11
- **4.3 Indication of any immediate medical attention and special treatment needed** No data available

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

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

- **5.2** Special hazards arising from the substance or mixture Hydrogen chloride gas, Mercury/mercury oxides.
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information No data available

#### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

#### 6.2 Environmental precautions

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

- **6.3** Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections For disposal see section 13.

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation 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.

Product is sensitive to light and moisture.

Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Components with workplace control parameters

#### 8.2 Exposure controls

#### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

#### Personal protective equipment

#### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

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

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	Melting point/range: 400 °C - lit.
f)	Initial boiling point and boiling range	No data available
g)	Flash point	Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available

I)Vapour densityNo data availablem)Relative density7,150 g/cm3n)Water solubilityNo data availableo)Partition coefficient: n- octanol/waterNo data available			
<ul><li>n) Water solubility</li><li>No data available</li><li>o) Partition coefficient: n-</li><li>No data available</li></ul>			
o) Partition coefficient: n- No data available			
p) Auto-ignition No data available temperature			
<ul> <li>q) Decomposition No data available temperature</li> </ul>			
r) Viscosity No data available			
s) Explosive properties No data available			
t) Oxidizing properties No data available			
9.2 Other safety information No data available			
SECTION 10: Stability and reactivity			
10.1 Reactivity No data available			
<b>10.2 Chemical stability</b> Stable under recommended storage conditions.			
<b>10.3 Possibility of hazardous reactions</b> No data available	B Possibility of hazardous reactions		
<b>10.4 Conditions to avoid</b> Avoid moisture.			
<b>10.5 Incompatible materials</b> Strong bases, Strong oxidizing agents			
<b>10.6 Hazardous decomposition products</b> Other decomposition products - No data available			
In the event of fire: see section 5			
SECTION 11: Toxicological information			
11.1 Information on toxicological effects	1.1 Information on toxicological effects		
<b>Acute toxicity</b> LD50 Oral - Rat - 210 mg/kg			
LD50 Dermal - Rat - 1.500 mg/kg			
Skin corrosion/irritation No data available			
Serious eye damage/eye irritation No data available			
<b>Respiratory or skin sensitisation</b> No data available	• •		
Germ cell mutagenicity Carcinogenicity			
IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to huma	ans (Calomel)		
Reproductive toxicity			
Specific target organ toxicity - single exposure No data available			

# Specific target organ toxicity - repeated exposure

No data available

# Aspiration hazard

No data available

# **Additional Information**

RTECS: OV8740000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# **SECTION 12: Ecological information**

## 12.1 Toxicity

Toxicity to fish LC50 - Leuciscus idus (Golden orfe) - 0,5 mg/l - 48 h

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 0,002 mg/l - 48 h other aquatic invertebrates

- 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 Results of PBT and vPvB assessment

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.

### **12.6** Other adverse effects

Very toxic to aquatic life.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### Contaminated packaging

Dispose of as unused product.

#### **SECTION 14: Transport information**

14.1	UN number ADR/RID: 2		IMDG: 2025	IATA: 2025
14.2			ID, SOLID, N.O.S. (Calomel) ID, SOLID, N.O.S. (Calomel) lid, n.o.s. (Calomel)	
14.3	Transport h ADR/RID: 6	<b>iazard class(es)</b> 5.1	IMDG: 6.1	IATA: 6.1
14.4	Packaging ADR/RID: II	• •	IMDG: III	IATA: III
14.5	Environmer ADR/RID: y		IMDG Marine pollutant: yes	IATA: no

### 14.6 Special precautions for user

No data available

#### **SECTION 15: Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

#### Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1

Calomel CAS-No.: 10112-91-1 REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) Shall not be placed on the market, or used, as a substance or in mixtures See Annex XVII to Regulation (EC) no 1907/2006 for Conditions of restriction

Calomel

CAS-No.: 10112-91-1

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals

Calomel CAS-No.: 10112-91-1 Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals

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ANNEX V, PART 2: Chemicals other than persistent organic pollutants as listed in Annexes A and B to the Stockholm Convention on Persistent Organic Pollutants according to the provisions thereof.

#### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

### **SECTION 16: Other information**

# Full text of H-Statements referred to under sections 2 and 3.

H302 H302 + H312 H312	Harmful if swallowed. Harmful if swallowed or in contact with skin Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.