

# MERCUROUS CHLORIDE

0984  
April 2000

CAS No: 10112-91-1  
RTECS No: OV8740000  
UN No: 3077  
EC No: 080-003-00-1

Dimercury dichloride  
Calomel  
Cl<sub>2</sub>Hg<sub>2</sub>  
Molecular mass: 472.09

| TYPES OF HAZARD/ EXPOSURE | ACUTE HAZARDS/SYMPTOMS | PREVENTION | FIRST AID/FIRE FIGHTING  |
|---------------------------|------------------------|------------|--|
| FIRE                      | Not combustible.       |            | In case of fire in the surroundings: all extinguishing agents allowed. |
| EXPLOSION                 |                        |            |  |

| EXPOSURE   |  | AVOID ALL CONTACT!   | IN ALL CASES CONSULT A DOCTOR!  |
|------------|--|--|---|
| Inhalation | Cough. Sore throat.                                  | Local exhaust or breathing protection.                             | Fresh air, rest. Refer for medical attention.   |
| Skin       | MAY BE ABSORBED! Redness.                            | Protective gloves. Protective clothing.                            | Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.                    |
| Eyes       | Redness.   | Safety goggles.  | First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor. |
| Ingestion  | Abdominal pain. Diarrhoea. Vomiting. Metallic taste. | Do not eat, drink, or smoke during work. Wash hands before eating. | Rinse mouth. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Refer for medical attention.                                 |

| SPILLAGE DISPOSAL  | PACKAGING & LABELLING  |
|--|--|
| Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. (Extra personal protection: P3 filter respirator for toxic particles). Do NOT wash away into sewer. | Xn Symbol<br>N Symbol<br>R: 22-36/37/38-50/53<br>S: (2-)13-24/25-46-60-61<br>UN Hazard Class: 9<br>UN Pack Group: III<br>Unbreakable packaging; put breakable packaging into closed unbreakable container. Do not transport with food and feedstuffs. Severe marine pollutant. |

| EMERGENCY RESPONSE                      | STORAGE   |
|---|---|
| Transport Emergency Card: TEC (R)-90G02 | Separated from food and feedstuffs. Keep in the dark. |

### IMPORTANT DATA

**Physical State; Appearance**

WHITE CRYSTALLINE POWDER.

**Chemical dangers**

The substance decomposes slowly under influence of light producing mercuric chloride and mercury.

**Occupational exposure limits**

TLV (as Hg): 0.025 mg/m<sup>3</sup> (skin) A4 (ACGIH 1999).  
 MAK as Hg: 0.1 mg/m<sup>3</sup>; BAT 25 Åg/l in blood; 100 Åg/l in urine (1999)  
 MAK as Hg STEL: 1 mg/m<sup>3</sup>; (1999)  
 MAK: class Sh (1999)

**Routes of exposure**

The substance can be absorbed into the body by inhalation of its aerosol, through the skin and by ingestion.

**Inhalation risk**

Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed.

**Effects of short-term exposure**

The substance irritates the eyes, the skin and the respiratory tract.

**Effects of long-term or repeated exposure**

The substance may have effects on the central nervous system, kidneys and peripheral nervous system, resulting in ataxia, sensory and memory disturbances, fatigue, muscle weakness and kidney impairment.

### PHYSICAL PROPERTIES

Sublimation point: 400-500°C  
 Density: 7.15 g/cm<sup>3</sup>

Solubility in water, g/100 ml at 25°C: none

### ENVIRONMENTAL DATA

The substance is very toxic to aquatic organisms. It is strongly advised not to let the chemical enter into the environment because it persists in the environment. Avoid release to the environment in circumstances different to normal use.

### NOTES

Do NOT take working clothes home.  
 Cyclosan, M-C Turf fungicide are trade names.  
 Depending on the degree of exposure, periodic medical examination is indicated.

### ADDITIONAL INFORMATION

**LEGAL NOTICE**

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible for the use which might be made of this information