

Camlab Limited – Material Safety Data Sheet

1. Identification


Product Code CC/0415-CA

Product Name **MERCURIC CHLORIDE pure**

Molecular Formula **HgCl₂ =271.50**

CAS Number **7487-94-7**

Supplier: **CAMLAB LIMITED**

 **Norman Way Industrial Estate
Over
Cambridge
England
CB4 5WE**

Phone **01954 233110**

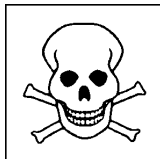
Fax **01954 233101**

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24hr 112
(Have this document to hand)

2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Mercury & its inorganic diva	7487-94-7	231-299-8	> 99.9%	T+ N : R28,R34,R48/24/25,R50/53	WEL

3. Hazards Identification



Very toxic if swallowed. Causes burns. Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed. Very Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment.

4. First Aid Measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. Unless contact has been slight OBTAIN MEDICAL ATTENTION

Skin Wash off skin thoroughly with water. OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure. Keep warm and at rest. OBTAIN MEDICAL ATTENTION.

Ingestion Wash out the patients mouth thoroughly with water. OBTAIN MEDICAL ATTENTION URGENTLY.

5. Fire Fighting Measures

Hazards Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus. May evolve toxic fumes if involved in a fire.

Extinguishing Media Consider what other flammable materials are present and act accordingly. Use water spray to keep fire exposed containers cool.

Unsuitable Media Nothing specified.

6. Accidental Release Measures

Personal Protection Avoid breathing vapour. Evacuate area immediately. Use approved personal protective equipment. Do not allow other people to enter area. Do not allow general use of area until it is safe to do so.

Environmental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.

6. Accidental Release Measures (continued)

Major Spillage	Vacuum up into container for removal. Carefully remove material from vacuum cleaner and transfer to sealable container for disposal. Carry out this operation under fume extraction. Wash area down with copious amounts of water.
Minor Spillage	Vacuum up into container for removal. Carefully remove material from vacuum cleaner and transfer to sealable container for disposal. Carry out this operation under fume extraction. Wash area down with copious amounts of water.

7. Storage & Handling

Handling Precautions	Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing. Ensure Local Exhaust Ventilation maintains dust concentrations to a minimum.
Storage Conditions	Well ventilated, cool, dry storage .

8.1 Workplace Exposure Limits

Workplace Exposure Limits	Long Term (8hr TWA):	-	ppm	0.0250	mg m-3
	Short Term (15min Period):	-	ppm	-	mg m-3

Special Hazards	Biological monitoring may be appropriate.
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8.2 Personal Protection

Respiratory	Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits. If not, use a well maintained chemical cartridge respirator, or use self contained breathing apparatus.
Hands	Wear gloves.
Eyes	Use chemical splash proof glasses or goggles.
Skin	Avoid contact with skin.

9. Physical & Chemical Properties

Appearance	White crystalline solid.
Odour	No specific odour.
pH	Not available
Boiling point	302.0 °C
Melting point	276.0 °C
Flash point	Not available
Upper Flammable Limit	Not available
Lower Flammable Limit	Not available
Auto Ignition	Not available
Explosive properties	No.
Oxidising Properties	No.
Vapour Pressure	Negligible
Relative Density	Not available
Water Solubility	7.4%

10. Stability & Reactivity

Chemical Stability	Stable under normal conditions
Conditions to Avoid	No specific conditions.
Materials to Avoid	Forms explosive compounds with ammonia, acetylenic compounds, azides and ethylene oxide.
Hazardous Decomposition Products	Decomposes to emit highly toxic fumes of mercury.

11. Toxicological Information

Eyes	Contact with the solid or solution may be irritating to the eyes.
Skin	Contact with the solid or solution may be irritating to the skin. Very toxic in contact with skin.
LD50 Skin	Mice 23 mg/Kg
Ingest	Toxic if swallowed. Chronic poisoning leads inflammation of mouth and gums, excessive salivation, loosening of teeth,
LD50 Ingest	Oral Rat 37mg/Kg
Inhalation	Very toxic by inhalation.
Carcinogenicity	Has been found to cause cancer in laboratory animals.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	None identified.

12. Ecological

Mercury and its compounds are highly toxic to the environment. Very Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment.

13. Disposal Considerations

Disposal Methods	Add a mixture of equal amounts of slaked lime (calcium hydroxide) and flowers of sulphur wetted with enough water to form a thin paste prior to disposal via an authorised toxic waste service.
Contaminated Packaging	Use a licensed waste disposer.



14. Transport Information

Proper Shipping Name	Mercuric Chloride
UN Number	1624
UN Classification	6.1 Toxic
Subsidiary Risk	None
Flash Point	Not available
Packing Group	II
Transport Category	2
Marine pollutant	No
ADR Hazard ID	60



15. Regulatory Information

Labelling	Very Toxic, Dangerous for the Environment.
Classification	

Label Symbols	T+  N 
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Risk & safety Phrases	Very toxic if swallowed. Causes burns. Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed. Very Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. Keep locked up and out of reach of children. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label). This material and/or its container must be disposed of as hazardous waste. Avoid release to the environment, refer to special instructions/safety data sheet.
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EEC Number	231-299-8
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16. Other Information

Document Information This document has been prepared in accordance with directive 88/379/EEC.

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

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