

# Camlab Limited – Material Safety Data Sheet

## 1. Identification


Product Code CC/0423-CH

Product Name **MERCURY METAL REDISTILLED**

Molecular Formula **Hg =200.59**

CAS Number **7439-97-6**

Supplier: **CAMLAB LIMITED**

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

Phone **01954 233110**

Fax **01954 233101**

Emergency Telephone **08:00-17:00 01954 233110**  
**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 and compounds	7439-97-6	231-106-7	> 99.9%	T N : R23,R33,R50/53	WEL

## 3. Hazards Identification



Toxic by inhalation. Danger of cumulative effects. 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. If symptoms of vapour inhalation occur OBTAIN IMMEDIATE MEDICAL ATTENTION.

Skin Wash off skin thoroughly with water. If symptoms of vapour inhalation occur OBTAIN IMMEDIATE MEDICAL ATTENTION.

Inhalation Remove from exposure. Keep warm and at rest. If symptoms of vapour inhalation occur OBTAIN IMMEDIATE 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.
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. Cover whole area with a wash composed of equal amounts of slaked lime (calcium hydroxide) and flowers of sulphur mixed with sufficient water to form a thin paste. After 24 hours wash off with water and dispose of washings via an authorised toxic waste service.
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. Cover whole area with a wash composed of equal amounts of slaked lime (calcium hydroxide) and flowers of sulphur mixed with sufficient water to form a thin paste. After 24 hours wash off with water and dispose of washings via an authorised toxic waste service.

## 7. Storage & Handling

Handling Precautions	Avoid breathing vapour. Take great care to avoid spillages.  Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.
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.
-----------------	---

## 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	Very heavy silver-grey liquid.
Odour	No specific odour.
pH	Not available
Boiling point	356.7 °C
Melting point	38.9- °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	0.002mmHg @ 25°C
Relative Density	13.3900 °C
Water Solubility	Insoluble in water.

## 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	Unlikely to be irritating to the eyes.
Skin	May be absorbed through the skin. Many of the effects typical of the vapour can result from absorption through the skin.
LD50 Skin	Not available
Ingest	Ingestion causes similar effects to vapour inhalation.
LD50 Ingest	Not available
Inhalation	Toxic by inhalation. Chronic poisoning leads inflammation of mouth and gums, excessive salivation, loosening of teeth,
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	Mercury
UN Number	2809
UN Classification	8 Corrosive
Subsidiary Risk	None
Flash Point	Not available
Packing Group	III
Transport Category	3
Marine pollutant	No
ADR Hazard ID	80



## 15. Regulatory Information

Labelling	Toxic, Dangerous for the Environment.
Classification	

Label Symbols

T



N



## 15. Regulatory Information (continued)

Risk & safety Phrases	Toxic by inhalation. Danger of cumulative effects. 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. Keep container tightly closed. 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.
EEC Number	231-106-7

## 16. Other Information

Document Information	<p>This document has been prepared in accordance with directive 88/379/EEC.</p> <p>The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.</p> <p>Revision Date: 20/11/03. Data reviewed and PDF file generated: 19/07/07. Copyright 2007 Camlab Limited.</p>
----------------------	--