



SAFETY DATA SHEET

MERCURIC CHLORIDE

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME: MERCURIC CHLORIDE
CHEMICAL NAME 2: MERCURY(II) CHLORIDE
PART No.: RM159
SYNONYMS, TRADE NAMES: Mercury dichloride
SUPPLIER: J M Loveridge plc
Southbrook Road, Southampton
Hampshire
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Tel: 023 8022 2008
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2. COMPOSITION/INFORMATION ON INGREDIENTS

EU INDEX No.: 080-010-00-X
EEC (EINECS) No. 231-299-8
CAS No.: 7487-94-7

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, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

GENERAL: IN ALL CASES OF DOUBT OR WHEN SYMPTOMS PERSIST, ALWAYS SEEK MEDICAL ATTENTION

INHALATION: Move affected person to fresh air. If recovery not rapid, seek medical attention. If breathing stops, provide artificial respiration. Keep affected person warm and at rest.

INGESTION: DO NOT INDUCE VOMITING. In case of spontaneous vomiting, be sure that vomit can freely drain because of danger of suffocation. Only when conscious, rinse mouth with plenty of water and give plenty of water to drink - (approx 500ml). Keep patient at rest and obtain medical attention.

SKIN: Remove contaminated clothing. Wash affected area with plenty of soap and water. If irritation persists, seek medical attention. Launder clothing before re-use.

EYES: Rinse immediately with plenty of water for at least 5 minutes while lifting the eye lids.

Seek medical attention. Continue to rinse.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:	Use extinguishing media suitable against surrounding fire or the cause of fire.
SPECIAL FIRE FIGHTING PROCEDURES:	Take measures to retain water used for extinguishing. Do not release contaminated water into drains, soil and surface water. Dispose of contaminated water and soil according to local regulations.
HAZARDOUS COMBUSTION PRODUCTS:	Burning will produce oxides of carbon. - may decompose in fire situation to release hydrogen chloride fumes and possibly mercury vapour.
PROTECTIVE MEASURES IN FIRE:	Fire fighters should wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTION IN SPILL:	Avoid direct contact with skin, eyes and clothing. Wear appropriate protective clothing.
PRECAUTIONS TO PROTECT ENVIRONMENT:	Prevent contamination of soil, drains and surface water.
SPILL CLEANUP METHODS:	Take-up spillage with absorbent, inert material and place in a suitable and closable labelled container for recovery or disposal. Wash the area clean with water and detergent, observing environmental requirements.

7. HANDLING AND STORAGE

USAGE PRECAUTIONS:	HANDLING - Product should be used in accordance with good industrial principles for handling and storing of hazardous chemicals.
STORAGE PRECAUTIONS:	Store in a cool, dry, well ventilated place, in securely closed original container. Avoid direct sunlight.
STORAGE CRITERIA:	Toxic storage.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

INGREDIENT NAME:	CAS No.:	STD	LT EXP 8 Hrs	ST EXP 15 Min
MERCURIC CHLORIDE	7487-94-7	OES	0.025 mg/m ³	

INGREDIENT COMMENTS:	Refer to the current edition of HSE Guidance Note EH 40/200* for occupational exposure limits; - exposure limit listed as mercury and its inorganic divalent compounds.
VENTILATION:	Use engineering controls to maintain airborne concentrations below OES. Respiratory protection required in insufficiently ventilated working areas.
RESPIRATORS:	If unable to control dust emissions below the suggested limit, an approved dust protection to P3 standard is recommended.
PROTECTIVE GLOVES:	Use impervious gloves made of butyl rubber or PVC.
EYE PROTECTION:	Approved chemical safety goggles or face protection.
OTHER PROTECTION:	Wear personal protective equipment appropriate to the quantity of material handled.
HYGIENIC WORK PRACTICES:	SKIN PROTECTION - apply barrier cream to hands and exposed skin.

Promptly remove contaminated clothing. Apply good personal hygiene principles, such as washing of hands, arms and face.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	White crystalline powder.		
MELT/FREEZ.POINT (°C, interval):	mp. 277°C		
DENSITY/SPECIFIC GRAVITY (g/ml):	7.56	Temperature (°C):	20
SOLUBILITY DESCRIPTION:	Soluble in water.		
SOLUBILITY VALUE (g/100g H₂O 20°C):	7.4		

10. STABILITY AND REACTIVITY

STABILITY:	Stable under normal conditions of use.
MATERIALS TO AVOID:	Violent reaction with sodium nitromethanide. Avoid contact with sulphates, formates, carbonates, bromides, ammonia, silver salts, alkalis, tannic acid.
HAZARDOUS DECOMP. PRODUCTS:	Thermal decomposition may release noxious, toxic or corrosive gases or vapours. - including hydrogen chloride fumes and mercury vapour.

11. TOXICOLOGICAL INFORMATION

TOXIC DOSE - LD 50:	1- 37 mg/kg (oral rat)
INHALATION:	Repeated or prolonged exposure may cause irritation of the respiratory system.
INGESTION:	Toxic by ingestion. May cause severe systemic effects. May cause nausea, vomiting, dizziness and depression of CNS.
SKIN:	Mercuric chloride is considered to be a strong allergen. Danger of cumulative effects over prolonged period of use. Can be absorbed through skin.
EYES:	May cause eye irritation, burning sensation or lacrymation. Repeated or prolonged exposure may cause permanent damage.
OTHER HEALTH EFFECTS:	Evidence of mutagenic effects.
ROUTE OF ENTRY:	Inhalation. Skin absorption.
MEDICAL SYMPTOMS:	Chronic symptoms may include severe nervous disturbances, tremors, complaints of excessive salivation, loosening of teeth, dark line on gum margins.

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:	Avoid release to the environment. Very toxic to aquatic organisms. Mercury(II) chloride is classified as Marine Pollutant.
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13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: This material and/or its container must be disposed of as hazardous waste according to Special Waste Regulations 1996 or according to local regulations, in compliance with Duty of Care Regulations and Special Waste Regulations.

WASTE CLASS: WASTE CODE: 0705** HAZARDOUS PROPERTY: H6, H14

14. TRANSPORT INFORMATION

LABEL FOR CONVEYANCE:



ADR CLASS No.: 6.1

ADR CLASS: Division 6.1: Toxic substances.

ADR PACK GR. II

HAZARD No. (ADR): 60 Toxic or slightly toxic substance.

ADR LABEL No.: 6.1

HAZCHEM CODE: 2X

PROPER SHIPPING NAME I: MERCURY CHLORIDE

UN No. SEA: UN 1624

IMDG CLASS: 6.1

IMDG PAGE No.: 6175

IMDG PACK GR.: II

MARINE POLLUTANT: Yes.

UN No., AIR: UN-ID 1624

ICAO CLASS: 6.1

AIR PACK GR.: II

15. REGULATORY INFORMATION

LABEL FOR SUPPLY:



RISK PHRASES:	R-28 Very toxic if swallowed. R-34 Causes burns. R-48/24/25 Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed. R-50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
SAFETY PHRASES:	S-36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S-45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S-60 This material and its container must be disposed of as hazardous waste. S-61 Avoid release to the environment. Refer to special instructions/ Safety Data Sheets.
UK REGULATORY REFERENCES:	Classification, Packaging and Labelling Regulations 1984. Chemicals (Hazard Information & Packaging) Regulations 1993.

16. OTHER INFORMATION

INFORMATION SOURCES:	This product has been classified in accordance with CHIP3 regulations.
REVISION COMMENTS:	Edition 02.01; Revised item(s): Sect. 11 - Medical Symptoms, removal of reference regarding exposure to Iodides. ADR update
ISSUED BY:	MK
SDS No.:	295
DATE:	16/01/03
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