



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : M 11117
Product Name : MERCURY

Manufacturer/supplier identification

Company : NICE Chemicals (P) Ltd., Cochin, India
Tel - 0484 2800212, 2802755

Contact for information : Tel. No.- 0484 2802536 Fax : 0484 2802483
Emergency Telephone No.: 0484 2801583 Tele fax No. : 0484 2802483

2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS-No : 7439-97-6 Ec-Index No. : 080-001-00-0
Molar Mass : 200.59 EC-No. : 231-106-7
Molecular Formula : Hg

3. HAZARDS IDENTIFICATION : Toxic by inhalation. Danger of cumulative effects.

4. FIRST AID MEASURES : After inhalation : Fresh air. If necessary, apply mouth-to-mouth resuscitation or

mechanical ventilation. Immediately summon doctor.

After skin contact : Wash off with plenty of water.

Remove contaminated clothing.

After eye contact : Rinse out with plenty of water for at least 10 minutes with the eyelid held wide open. Immediately summon eye specialist.

After swallowing : If victim is still conscious, make him drink plenty of water, induce vomiting, administer activated charcoal (20-40 gm in 10% slurry).

Immediately summon doctor.



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5. FIRE-FIGHTING MEASURES : Suitable extinguishing media :

In adaption to materials stored in the immediate neighbourhood.

Special risks : Vapours heavier than air. Development of hazardous combustion gases or vapours possible in the event of fire. The following may develop in event of fire : Mercury vapours.

Special protective equipment for fire fighting :

Do not stay in dangerous zone without self-contained breathing apparatus.

Other information : Non-combustible. Do not allow to enter sewerage system.

6. ACCIDENTAL RELEASE MEASURES : Person-related precautionary measures : Avoid generation of dusts; do not inhale dusts. Avoid substance contact.

Procedures for cleaning/absorption : Carefully take up dry. Forward for disposal.
Clean up affected area.

Environmental-protection measures : Do not allow to enter sewerage system.

7. HANDLING AND STORAGE : Handling : No further requirements.

Storage : Tightly closed. Dry. In a well-ventilated place.

At +15° C to +25° C. Accessible only for authorised persons.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION : Respiratory protection : Required when vapours/ aerosols are generated.

Eye protection : Required

Hand protection : Required

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.



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Industrial hygiene : Immediately change contaminated clothing. Apply skin-protective barrier cream. Wash recommended. Wash hands and face after working with substance. Under no circumstances eat or drink at workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Liquid
Colour	:	Silvery
Odour	:	Odourless
pH value	:	Not available
Melting temperature	:	-38° C
Boiling temperature	:	357 ° C
Ignition temperature	:	Not available
Flash Point	:	Not available
Explosion limit lower	:	Not available
upper	:	Not available
Vapour pressure (20° C)	:	0.16 Pa
(30° C)	:	0.37 Pa
Relative vapour density	:	Not available
Density (20 ° C)	:	13.55 gm/cm ³
Solubility in Water (20° C)	:	Insoluble

10. STABILITY AND REACTIVITY

Conditions to be avoided : Strong heating

Substances to be avoided : Acetylidene, ammonia, amines, alkali metals, azides, metals, halogens, acids, conc. sulphuric acid, nitric acid/hydrochloric acid, carbides, halogen oxides.

Hazardous decomposition products: Highly toxic vapours.



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11. TOXICOLOGICAL INFORMATION

Acute toxicity : Quantitative data on the toxicity of this product are not available.

Further toxicological information :

Mercury compounds have a cytotoxic and protoplasmatoxic effect. Intoxication symptoms : Acute : contact with eye causes severe lesions. Swallowing and inhalation of dusts damages mucous membranes of gastrointestinal and respiratory tract (metallic taste, nausea, vomiting, abdominal pain, bloody diarrhoea, intestinal burns, glottal oedema, aspiration pneumonia); drop in blood pressure, cardiac dysrhythmia, circulatory collapse, and renal failure : chronic inflammation of the mouth with loss of teeth & mercurial line. The principal signs manifest themselves in the CNS (impaired speech, vision, hearing, and sensitivity, loss of memory, irritability, hallucinations, delirium inter alia).

Further data : Further hazardous properties cannot be excluded. The product should be handled with the care usual when dealing with chemicals.

12. ECOLOGICAL INFORMATION

Behavior in environmental compartments : Evaluation number (FRG) (bacteria) : 7.9; Evaluation number (FRG) fish) : 6.8; Evaluation number (FRG) (mammal) : 5

Ecotoxic effects: Biological effects: Highly toxic for aquatic organisms.

Daphnia toxicity : Daphnia EC : 0.015 mg/lit. The following applies to the water - soluble matter contained in inorganic Hg compounds in general (tested with mercury (II) chloride) : *Leuciscus idus* LC : 0.5 mg/lit.(48 h), *Daphnia magna* EC : 0.005 - 3.6 mg/lit. (48h), *Chlorella pyrenoidosa* EC : 0.3 mg/lit.(5h).

Pseudomonas fluorescens IC : 0.005 mg/lit. The toxicity of mercury(II) ions for water organisms depends on the water hardness[source : IPCS].



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Further ecologic data : Do not allow to enter waters, waste water, or soil!.

13. DISPOSAL METHOD

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws & regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

14. TRANSPORT INFORMATION

Transport over land ADR/RID

and GGVS/GGVE : GGVS/GGVE class : 8 Number and letter : 66c
ADR/RID class : 8 Number and letter : 66c
Name of material : MERCURY

Sea Transport IMDG : IMDG class : 8 UN No. : 2809 Packing group : III
Ems : 8-12 MFAG : 4.2
Correct Technical Name : MERCURY

Air Transport ICAO-TI

and IATA-DGR : ICAO/IATA class : 8 UN No. : 2809 Packaging group : III
Correct Technical Name : MERCURY



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15. REGULATORY INFORMATION

Labeling according to EC Directives

Symbol : T Toxic

R-phrases : 23-33 Toxic by inhalation. Danger of cumulative effects.

S-phrases : 7-45 Keep container tightly closed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Water pollution class : 3 (highly polluting substance)

16. OTHER INFORMATION

Reason for alteration

Change in the chapter on ecology.

General update

The information contained herein is based on the present state of our knowledge.

It characterises the product with regard to the appropriate safety precautions.

It does not represent a guarantee of the properties of the product.
