



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : M25625
Product Name : **MERCURIC SULPHATE**

Manufacturer / supplier identification

Company : NICE CHEMICALS PVT.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 : 7783-35-9 EC –No. 231-992-5
Molar mass : 296.65 EC-Index No. : 080-002-00-6
Molecular formula : HgO_4S

3. HAZARDS IDENTIFICATION

Very toxic by inhalation, in contact with skin and if swallowed. Danger of cumulative effects.

4. FIRST AID MEASURES

After inhalation : Fresh air. If necessary apply mouth to mouth resuscitation or mechanicaks ventilation. Immediately summon doctor.
After skin contact : wash off under running water. Remove contaminated clothing.
After eye contact : Rinse out with water with the eyelid held wide open.
Summon eye specialist if necessary.
After swallowing : If victim is still conscious, make him drink plenty of water.
Induce vomiting, administer activated chrcoal. Summon doctor.



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5. FIRE – FIGHTING MEASURES

Suitable extinguishing media : In adaption to materials stored in the immediate neighbourhood.

Special risks : Development of hazardous combustion gases or vapours possible in the event of fire. The following may develop in the event of fire: mercury vapours, sulphur oxides.

Special protective equipment for fire fighting : Do not stay in dangerous zone without Suitable chemical protection clothing and self-contained breathing apparatus.

Other information : Non-combustible. Contain escaping vapours with water. Prevent fire fighting water from entering surface water or ground water.

6. ACCIDENTAL RELEASE MEASURES

Person related precautionary measures: Avoid generation of dusts; do not inhale dusts.
Avoid substance contact.

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

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

7. HANDLING AND STORAGE

Handling : No further requirements.

Storage : Tightly closed. Dry. In a well ventilated place. Protected from light.

Storage temperature : No restrictions. Accessible only for authorized persons.



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment

Respiratory protection : required when dusts 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.

Industrial hygiene : Immediately change contaminated clothing. Application of skin protective barrier cream recommended. Wash hands and face after working with substance. Under no circumstances eat or drink at work place. Work under hood. Do not inhale substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	solid
Colour	:	white
Odour	:	odourless
PH value at 50 g/l H ₂ O (20°C)	:	~ 1
Melting temperature	:	(decomposition)
Boiling temperature	:	(decomposition)
Ignition temperature	:	> 450 °C
Flash point	:	Not available
Explosion limits	Lower :	Not available
	Upper :	Not available
Relative vapour density	:	Not available
Density (20°C)	:	~ 6.47 g/cm ³



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Bulk Density : ~ 670 kg/m³
Solubility in water(20°C) : (decomposition)
Thermal decomposition : 450⁰C

10. STABILITY AND REACTIVITY

Conditions to be avoided : Strong heating.
Substance to be avoided : Hydrogen halides/Heat
Hazardous decomposition products : In the event of fire: Mercury vapours,
Sulphur oxides
Further information : Light sensitive.

11. TOXICOLOGICAL INFORMATION:

Acute toxicity : LD₅₀ (oral, rat): 57 mg/kg ; LD₅₀ (dermal, rat): 625 mg/kg

Sub acute to chronic toxicity :

The data available on the impairment of the reproductive performance are inadequate for any assessment. Results from animal experiments indicate possible teratonic effects. So far no data are available on carcinogenicity. So far no data are available on mutagenicity.

Further toxicological information :

Mercury compounds have a cytotoxic and protoplasmatoxic effects. 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 and mercurial line. The principal signs manifest themselves in the CNS (impaired speech, vision, hearing and sensitivity, loss of memory, irritability, hallucinations, delirium inter alia). Pregnant woman should not be exposed to the product.



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After skin contact : may cause sensitization.

After inhalation : latency time until onset of action. Possible damages: Pulmonary Oedema.

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

12. ECOLOGICAL INFORMATION

Ecotoxic effect:

Biological effects : Highly toxic for aquatic organisms.

Concentration in organisms possible.

The following applies to water soluble matter contain in inorganic Hg compounds

In general(tested with mercury(II) chlorides) : leuciscus idus LC_{50} : 0.50 mg/l(48h),
Daphnia magna EC_{50} : 0.005 – 3,6 mg/l (48h), Chlorella Pyrenoidosa : EC_{50} : 0.3mg/l
(5h), Pseudomonas fluorescens IC_{50} : 0.005 mg/l. The toxicity of mercury (II) ions
for water organisms depends on the water hardness.

Further ecological data : Do not allow to enter water, waste water, soil.

13. DISPOSAL METHOD

Product

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 that you corresponding laws and regulations. We recommend contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

Packaging

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.



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14. TRANSPORT INFORMATION

Transport over land ADR/RID and GGVs/GGVE

GGVS/GGVE class : 6.1 Number and letter :52b

ADR/RID class : 6.1 Number and letter :52b

River transport ADN/ADNR : Not examined.

Sea transport IMDG

IMDG class : 6.1 UN No.1645 Packaging group : II

Ems : 6.1-04 MFAG : 105

Correct technical name : MERCURIC SULPHATE – Marine Pollutant.

Air transport ICAQ-TI and IATA-DGR

ICAQ/IATA class : 6.1 UN/ID No. : 1645 Packaging group : II

Correct technical name : MERCURY SULPHATE

15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol	: T+	Very toxic
R-phrases	: 26/27/28-33	Very toxic by inhalation, in contact with skin and if swallowed. Danger of cumulative effects.
S-phrases	: 13-28-45	Keep away from food, drink and animal feeding stuffs. After contact with skin, wash immediately with plenty of water. 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)



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16. OTHER INFORMATION

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

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

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