

MERCURIC CHLORIDE MATERIAL SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product form	:	Substance
CAS No	:	7487-94-7
Product Code	:	32163, A-32163

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/professional use spec	:	Industrial
For professional use only		
Use of the substance/mixture	:	Laboratory Reagent

1.2.2. Uses advised against

No additional information available

1.3. Details of the manufacturer of the safety data sheet

Techno Pharmchem
Plot No.1022, Modern Industrial Estate,
Bahadurgarh-124507, India
T +91 11 23646422
info@technopharmchem.com

1.4. Emergency telephone number

Emergency number: +91 11 23646422 (9:30am – 5.30pm)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral),	H300
Category 1	
Skin corrosion/irritation,	H314
Category 1B	
Serious eye damage/eye	H318
irritation, Category 1	
Germ cell mutagenicity,	H341
Category 2	
Reproductive toxicity,	H361f
Category 2	
Specific target organ	H372
toxicity — Repeated	
exposure, Category 1	



Hazardous to the aquatic environment — Chronic
Hazard, Category 1

H410

Full text of classification categories and H statements: see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Muta.Cat.3; R68

Repr.Cat.3; R62

T+; R28

T; R48/24/25

C; R34

N; R50/53

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labeling according to regulation (EC) No. 1272/2008 [CLP]

Signal word (CLP) : Danger

Hazard statements (CLP) :
H300 - Fatal if swallowed
H314 - Causes skin burns and eye damage
H341 - Suspected of causing genetic defects
H361f - Suspected of damaging fertility
H372 - Causes damage to organs through prolonged or repeated exposure
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) :
P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe dust/fume/gas/mist/vapours/spray
P264 - Wash ... thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301+P310 - IF SWALLOWED: Immediately call a doctor
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do.
Continue rinsing
P310 - Immediately call a doctor/...
P314 - Get medical advice/attention if you feel unwell
P321 - Specific treatment
P330 - Rinse mouth
P391 - Collect spillage
P405 - Store locked up

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Name : MERCURIC CHLORIDE
CAS No : 7487-94-7

Full text of R- and H-phrases: see section 16

3.2. Mixtures

Not applicable

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

First-aid measures general	:	IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a doctor/physician.
First-aid measures after skin contact	:	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a doctor/physician.
First-aid measures after eye contact	:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor/physician.
First-aid measures after ingestion	:	Rinse mouth. Immediately call a doctor/physician. Specific treatment. Do NOT induce vomiting

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries	:	Causes skin burns and eye damage. Suspected of causing genetic defects. Suspected of damaging fertility. Causes damage to organs through prolonged or repeated exposure.
Symptoms/injuries after inhalation	:	Fatal if inhaled.
Symptoms/injuries after skin contact	:	Fatal in contact with skin.

Symptoms/injuries after eye contact : Causes serious eye damage.
Symptoms/injuries after ingestion : Fatal if swallowed.
Chronic symptoms : Suspected of damaging fertility

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

No additional information available

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Emergency procedures : Stop release

6.2. Environmental precautions

Very toxic to aquatic life with long lasting effects

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Clean up immediately by sweeping or vacuum.

6.4. Reference to other sections

No additional information available

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling : Do not breathe dust/fume/gas/mist/vapours/spray.
Obtain special instructions before use. Use personal protective equipment as required. Do not handle until all safety precautions have been read and understood.
Hygiene measures : Wash ... thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any compatibilities

Technical measures	:	Comply with applicable regulations.
Storage conditions	:	Store in original container. Keep container tightly closed. Store in a dry place. Protect from moisture.

7.3. Specific end use (S)

No additional information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection	:	Protective gloves
Eye protection	:	Chemical goggles or face shield
Skin and body protection	:	Wear suitable protective clothing
Respiratory protection	:	Wear appropriate mask

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	:	Solid
Molecular mass	:	271.5 g/mol
Colour	:	White crystals
Odor	:	odorless
Odor threshold	:	No data available
pH	:	3.2 (0,2 M solution)
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	277 °C
Freezing point	:	No data available
Boiling point	:	302 °C
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapour pressure	:	1 mm Hg at 136.20C
Relative vapour density at 20 °C	:	8.7
Relative density	:	No data available
Density	:	5.4 g/cm ³
Solubility	:	Water: 7.4 g/100ml
Log pow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Explosive limits	:	No data available

9.2. Other information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Thermal decomposition generates: Corrosive vapours

10.2. Chemical Stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Direct sunlight. Air contact. Moisture

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Thermal decomposition generates: Corrosive vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity	:	Oral: Fatal if swallowed.
Skin corrosion/irritation	:	Causes severe skin burns and eye damage. pH: 3.2 (0,2 M solution)
Serious eye damage/irritation	:	Causes serious eye damage. pH: 3.2 (0,2 M solution)
Respiratory or skin sensitisation	:	Not classified
Germ cell mutagenicity	:	Suspected of causing genetic defects.
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Suspected of damaging fertility.
Specific target organ toxicity (single exposure)	:	Not classified
Specific target organ toxicity (repeated exposure)	:	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	:	Not classified
Potential adverse human health effects and symptoms	:	Fatal if swallowed

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology – water : Very toxic to aquatic life with long lasting effects

12.2. Persistence and degradability

MERCURIC CHLORIDE (CAS No.7487-94-7)

Persistence and degradability	May cause long-term adverse effects in the environment
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12.3. Bio accumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT AND vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product/packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

ADR/RID: - 1624 IMDG: - 1624 IATA: - 1624

14.2 UN Proper shipping name

ADR/RID : MERCURIC CHLORIDE
IMDG : MERCURIC CHLORIDE
IATA : Mercuric Chloride

14.3 Transport Hazard class(es)

ADR/RID: - 6.1 IMDG: - 6.1 IATA: - 6.1

14.4 Packaging group

ADR/RID: - II IMDG: - II IATA: - II

14.5 Environmental hazards

ADR/RID: yes IMDG Marine pollutant: yes IATA: no

14.6 Special precautions for user

No data available

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Ensure all local, regional, national and/or international regulations are observed.

15.2 Chemical safety Assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H300	Fatal if swallowed.
H300 + H310 +H330	Fatal if swallowed, in contact with skin or if inhaled
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

The information contained herein in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. We do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.