PINKTO CHEMICALS

A CRISIL Certified Company
410001301153

Q.C. Laboratory

Technical Data Sheet (T.D.S)

Mercuric Chloride

Chemical Characteristics	Mercury in Chloride Form, $HgCl_2$
CAS No.	7487 – 94- 7
E.U. Index	28-34-48/24/25-50/53
Melting Point	277 ℃
Boiling Point	302 ℃
Appearance	White Crystalline Powder
Toxicological Information	Highly Toxic. Avoid inhalation, eye contact, skin contact and ingestion
Personal Protection	Must wear eye protection glasses, mask, gloves and boots while handling the material
Fire Fighting Methods	Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.
Hazard Information	Emits toxic fumes under fire conditions
Handling	Keep away from heat, sparks and open flame. Containers to be kept closed tightly. This product will oxidize slowly if exposed to air
Packaging	HDPE Drums with double poly-lined bags inside. Custom packaging upon request. (terms & conditions applied)
Storage	Store in a cool, dry, well-ventilated place and away from fire, sparks and incompatible substances. Keep tightly closed. Light sensitive. Moisture sensitive.
Shelf Life	Mercuric Chloride is sensitive to moisture. Unsealing the container and leaving exposed to open air or storing in humid areas will reduce the shelf life.

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Physical/Chemical Properties

Appearance Physical State: Solid

Property	At Temperature or Pressure	Value
Molecular Weight		271.5 AMU
BP/BP Range	302℃	760 mmHg
MP/MP Range	277℃	
Vapor Pressure	236℃	1.3 mmHg
SG/Density		5.44 g/cm3

STABILITY
Stable: Stable
Conditions to Avoid: Light. Moisture
Materials to Avoid: Strong oxidizing agents, Strong bases.

HAZARDOUS DECOMPOSITION PRODUCTS
Hazardous Decomposition Products: Mercury/mercury oxides.

HAZARDOUS POLYMERIZATION
Hazardous Polymerization: Will not occur

TOXICOLOGICAL INFORMATION
ROUTE OF EXPOSURE -
Skin Contact: Causes burns.
Skin Absorption: May be fatal if absorbed through skin
Eye Contact: Causes burns.
Inhalation: Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. May be harmful if inhaled
Ingestion: May be fatal if swallowed.

REGULATORY INFORMATION
EU DIRECTIVES CLASSIFICATION
Symbol of Danger: T+-N
Indication of Danger: Very toxic. Dangerous for the environment

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Mercuric Chloride

CAS No.: 7487 – 94 - 7

Molecular Formula: $HgCl_2$

Grade: LR

PARTICULARS	SPECIFICATION
Physical Properties/Appearance	White Crystalline Powder
Assay (as purity) after drying	98.5%
Moisture Content	0.10%

Note: All the afore-mentioned specifications are standard. Specifications can be tailor-made as per requirement.

Uses/Application

- **Chemical reagent:** Mercuric chloride is sometimes used to form an amalgam metals like aluminum.
- **Stabilizing agent**
- **Photography:** Mercuric chloride as a photographic intensifier
- **Historic purposes in preservation:** Mercuric chloride, in preservation purposes, is used to preserve anthropological and biological specimens during the late 19th century to early 20th. Those specimens were dipped in or painted with the mercuric solution. The preservation with mercuric chloride was done to prevent the specimens' destruction that may be caused by moths, mites, and molds. The chemical is also used in wood preservation.
- **Seed surface sterilizer**
- **Disinfectant**
- **Topical antiseptic**
- **Pesticides:** Mercuric chloride can also be used as pesticides, specifically fungicides
- **Catalyst in Vinyl Process**