



## CYNOR LABORATORY

Address: National industry, Pipodra GIDC, Surat-394110, Gujarat, India.

Email: cynorlaboratories@gmail.com Mobile No.: +91 8799070507

### MATERIAL SAFETY DATA SHEET

Product Name	MERCURIC NITRATE
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#### **1. Identification of the substance/mixture and of the company/undertaking**

##### **1.1. Product identifier**

Trade name : MERCURIC NITRATE

Product code : M0103

Identification of the product : MERCURIC NITRATE

CAS No :7783-34-8

**1.2. Relevant identified uses of the substance or mixture and uses advised against Use :**  
Industrial. For professional use only.

##### **1.3. Details of the supplier of the safety data sheet**

Company identification: CYNOR

National industry, Pipodra GIDC, Surat-394110, Gujarat, India.

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#### **2. Hazards identification -DSD**

##### **2.1. Classification of the substance or mixture**

Classification EC 67/548 or EC 1999/45

Classification : T+; R26/27/28

R33

N; R50-53

**Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP) Health**

**hazards :** Acute toxicity, dermal - Category 1 - Danger (CLP : Acute Tox. 1) H310

Acute toxicity, Oral - Category 1 - Danger (CLP : Acute Tox. 1) H300 Acute

toxicity, Inhalation - Category 2 - Danger (CLP : Acute Tox. 2) H330

**Environmental hazards :** Hazardous to the aquatic environment - Acute hazard - Category 1 -

Warning (CLP : Aquatic Acute 1) H400 Hazardous to the aquatic environment - Chronic hazard

- Category 1 - Warning (CLP : Aquatic Chronic 1) H410

##### **2.2. Label elements**

Labelling EC 67/548 or EC 1999/45 Symbol(s) :

T+ : Very toxic

N : Dangerous for the environment



**R Phrase(s)** : R26/27/28 : Very toxic by inhalation, in contact with skin and if swallowed.

R33 : Danger of cumulative effects.

R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S Phrase(s)** : S13 : Keep away from food, drink and animal feedingstuffs.

S28 : After contact with skin, wash immediately with

S45 : In case of accident or if you feel unwell, seek medical advice immediately ( show the label when possible).

S60 : This material and its container must be disposed of as hazardous waste. S61 :

Avoid release to the environment. Refer to special instructions/Safety data sheets.

**Labelling Regulation EC 1272/2008 (CLP)**

**Hazard pictograms**



**Signal words** : Danger

**Hazard statements** : H300 : Fatal if swallowed.

H310 : Fatal in contact with skin.

H330 : Fatal if inhaled.

H410 : Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

• **Prevention** : P284: Wear respiratory protection.

P280: Wear protective gloves, protective clothing, eye protection, face protection.

P271: Use only outdoors or in a well-ventilated area.

P260: Do not breathe dust, fume, gas, mist, vapours, spray.

P273: Avoid release to the environment.

P264: Wash thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

• **Response** : P301+P310: IF SWALLOWED : Immediately call a POISON CENTER or doctor.

P391: Collect spillage.

P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.

P302+P350: IF ON SKIN : Gently wash with plenty of soap and water.

P363: Wash contaminated clothing before reuse.

P361: Remove immediately all contaminated clothing.

• **Storage** : P403+P233: Store in well-ventilated place. Keep container tightly closed.



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P405: Store locked up.

• **Disposal considerations** : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### **2.3. Other hazards**

**Other hazards** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

### **3. Composition/information on ingredients**

**Substance / Preparation** : MERCURIC NITRATE (HYDRATE)

CAS No : 7783-34-8

Substance.

Contains no other components or impurities which will influence the classification of the product.

### **4. First aid measures**

#### **4.1. Description of first aid measures**

**Inhalation** : Assure fresh air breathing. Allow the victim to rest. Specific treatment is urgent (see on this label). Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor.

**Skin contact** : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash contaminated clothing before reuse.

Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Specific treatment (see on this label). Immediately call a POISON CENTER or doctor.

**Eye contact** : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

**Ingestion** : Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor. Specific treatment (see on this label).

#### **4.2. Most important symptoms and effects, both acute and delayed Symptoms**

**relating to use** : Fatal if swallowed. Fatal in contact with skin. Fatal if inhaled.

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

**General information** : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

### **5. Fire-fighting measures**

#### **5.1. Extinguishing media**

**Suitable extinguishing media** : Foam. Dry powder. Carbon dioxide. Water spray. Sand.



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

**Surrounding fires** : Use water spray or fog for cooling exposed containers.

### **5.2. Special hazards arising from the substance or mixture**

**Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.

### **5.3. Advice for fire-fighters**

**Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.

**Special procedures** : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

## **6. Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures For emergency responders** : Equip cleanup crew with proper protection. Ventilate area.

**For non-emergency personnel** : Evacuate unnecessary personnel.

### **6.2. Environmental precautions**

**Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Avoid release to the environment.

### **6.3. Methods and material for containment and cleaning up**

**Clean up methods** : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

### **6.4. Reference to other sections**

See section 8. Exposure controls/personal protection

## **7. Handling and storage**

### **7.1. Precautions for safe handling**

**Handling** : Do not breathe dust, fume, gas, mist, vapours, spray. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

**Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour.

### **7.2. Conditions for safe storage, including any incompatibilities**

**Storage** : Keep only in the original container in a cool, well ventilated place. Keep container tightly closed.

**Storage - away from** : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

### **7.3. Specific end use(s)**

**Specific end use(s)** : None.

## **8. Exposure controls/personal protection**

### **8.1. Exposure controls**

**Personal protection** : Avoid all unnecessary exposure.

- **Respiratory protection** : Wear respiratory protection.
- **Hand protection** : Wear protective gloves.
- **Eye protection** : Chemical goggles or safety glasses.
- **Others** : When using, do not eat, drink or smoke.

### **8.2. Control parameters**

**Occupational Exposure Limits** : No data available.

## **9. Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

**Physical state at 20 °C** : Solid.

**Odour threshold** : No data available.

**pH value** : Not applicable.

**Melting point [°C]** : 79 °C

**Decomposition point [°C]** : N/A

**Critical temperature [°C]** : N/A

**Auto-ignition temperature [°C]** : N/A

**Flammability (solid, gas)** : N/A

**Flash point [°C]** : N/A

**Boiling point [°C]** : N/A

**Initial boiling point [°C]** : N/A

**Final boiling point [°C]** : N/A

**Evaporation rate** : N/A

**Vapour pressure [20°C]** : N/A

**Vapour pressure mm/Hg** : N/A

**Vapour density** : 11

**Density [g/cm<sup>3</sup>]** : 4,3

**Relative density, gas (air=1)** : N/A

**Relative density, liquid (water=1)** : N/A

**Solubility in water [% weight]** : Soluble in water

**Solubility in water** : N/A

**Log Pow octanol / water at 20°C** : No data available.

**Solubility** : N/A

**Viscosity at 40°C [mm<sup>2</sup>/s]** : N/A

### **9.2. Other information**

**Explosive properties** : N/A

**Explosion limits - upper [%]** : N/A



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**Explosion limits - lower [%] :** N/A

**Oxidising properties :** No data available.

### **10. Stability and reactivity**

#### **10.1. Reactivity**

**Reactivity :** Not established.

#### **10.2. Chemical stability**

**Chemical stability :** Stable under recommended storage conditions.

#### **10.3. Possibility of hazardous reactions**

**Hazardous reactions :** Not established.

#### **10.4. Conditions to avoid**

**Conditions to avoid :** Direct sunlight. Extremely high or low temperatures.

#### **10.5. Incompatible materials**

**Materials to avoid :** Strong acids. Strong bases.

#### **10.6. Hazardous decomposition products**

**Hazardous decomposition products :** Fumes. Carbon monoxide. Carbon dioxide.

### **11. Toxicological information**

#### **11.1. Information on toxicological effects**

##### **Acute toxicity**

- **Inhalation :** Fatal if inhaled.
- **Dermal :** Fatal in contact with skin.
- **Ingestion :** Fatal if swallowed.

**Corrosion :** Based on available data, the classification criteria are not met.

**Irritation :** Based on available data, the classification criteria are not met.

**Sensitization :** Based on available data, the classification criteria are not met.

**Mutagenicity :** Based on available data, the classification criteria are not met.

**Carcinogenicity :** Based on available data, the classification criteria are not met.

**Toxic for reproduction :** Based on available data, the classification criteria are not met.

**STOT-single exposure :** Based on available data, the classification criteria are not met.

**STOT-repeated exposure :** Based on available data, the classification criteria are not met.

**Aspiration hazard :** Based on available data, the classification criteria are not met.

### **12. Ecological information**

#### **12.1. Toxicity**

**Toxicity information :** Very toxic to aquatic life with long lasting effects.

#### **12.2. Persistence - degradability**

**Persistence - degradability :** May cause long-term adverse effects in the environment.

### **12.3. Bioaccumulative potential**

**Bioaccumulative potential** : Not established.

### **12.4. Mobility in soil**

**Mobility in soil** : Not established.

### **12.5. Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

### **12.6. Other adverse effects**

**Environmental precautions** : Avoid release to the environment.

## **13. Disposal considerations**

### **13.1. Waste treatment methods**

**General** : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**Special precautions** : Hazardous waste due to toxicity.

## **14. Transport information**

### **14.1. Land transport (ADR-RID)**

**Proper shipping name** : MERCURIC NITRATE

**UN N°** : 1625

**H.I. nr** : 60

**ADR - Class** : 6.1

**Labelling - Transport** : 6.1 : Toxic substances.

**ADR - Classification code** : T5

**ADR - Group** : II

**ADR - Packing instructions** : P002

**ADR - Limited Quantity** : 500 G

**ADR - Tunnel code** : D/E : Bulk or tank carriage: Passage forbidden through tunnels of category D and E. Other carriage: Passage forbidden through tunnels of category E.

### **14.2. Sea transport (IMDG) [English only] Proper**

**shipping name** : MERCURIC NITRATE

**UN N°** : 1625

**IMO-IMDG - Class or division** : 6.1 : Toxic substances.

**IMO-IMDG - Packing group** : II

**IMO-IMDG - Packing instructions** : P002

**IMO-IMDG - Limited quantities** : 500 g



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**IMO-IMDG - Marine pollution** : Yes

**EMS-Nr** : F-A S-A

### **14.3. Air transport (ICAO-IATA) [English only]**

**Proper shipping name** : MERCURIC NITRATE

**UN N°** : 1625

**IATA - Class or division** : 6.1 : Toxic substances.

**IATA - Packing group** : II

**IATA - Passenger and Cargo Aircraft** : ALLOWED

- **Passenger and Cargo - Packing** : 669

**instruction**

- **Passenger and Cargo - Maximum** : 25 kg

**Quantity/Packing**

**IATA - Cargo only** : ALLOWED

- **Cargo only - Packing instruction** : 676

- **Cargo only - Maximum Quantity/** : 100 kg

**Packing**

**IATA - Limited Quantities** : 1 kg

**ERG-Nr** : 6L

### **15. Regulatory information**

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

**Safety, health and environmental** : Ensure all national/local regulations are observed.

**regulations/legislation specific for the substance or mixture**

**REACH Restrictions - Annex XVII** : The components of this product are not subject to restrictions.

**REACH Authorisation - Annex XIV** : The components of this product are not subject to authorization.

#### **15.2. Chemical Safety Assessment**

**Chemical Safety Assessment** : It has not been carried out.

### **16. Other information**

**Abbreviations and acronyms** : PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative

**Sources of key data used** : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

**Further information** : None.



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**End of document**

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