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## MATERIAL SAFETY DATA SHEET (MSDS)

### PHENYL MERCURY NITRATE (BASIC) (MERCURY PHENYL NITRATE)

#### 1. Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Trade name : PHENYL MERCURY NITRATE (BASIC) (MERCURY PHENYL NITRATE)  
 Product code : P0159100100  
 Identification of the product : PHENYL MERCURY NITRATE (BASIC)99% for synthesis  
 CAS No: 8003-05-2

##### 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 : SUVCHEM  
 Chaitanya Tower, 2nd Floor, Office # 206,  
 Siddharth Nagar, S.V. Road,  
 Goregaon (West), Mumbai - 400062,  
 Maharashtra, India.  
 Contact: +91 22 28725393 / 94 / 95  
 Email ID: info@suvchem.com/care@suvchem.com

##### 1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [ Office hours ]

#### 2. Hazards identification -DSD

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

##### Classification EC 67/548 or EC 1999/45

Classification : T; R25-R48/24/25  
 C; R34  
 N; R50-53

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

Health hazards : Specific Target Organ Toxicity - Repeated exposure - Category 1 - Danger (CLP : STOT RE 1) H372  
 Skin corrosion - Category 1B - Danger (CLP : Skin Corr. 1B) H314  
 Acute toxicity, Oral - Category 3 - Danger (CLP : Acute Tox. 3) H301  
 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

**MATERIAL SAFETY DATA SHEET (MSDS)**
**PHENYL MERCURY NITRATE (BASIC) (MERCURY PHENYL NITRATE)**
**2. Hazards identification -DSD (continued)**
**Labelling EC 67/548 or EC 1999/45**
**Symbol(s)**

**Symbol(s)**

: T : Toxic  
 N : Dangerous for the environment

**R Phrase(s)**

: R25 : Toxic if swallowed.  
 R34 : Causes burns.  
 R48/24/25 : Toxic : danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.  
 R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S Phrase(s)**

: S23 : Do not breathe the gas, fumes, vapours, spray.  
 S24/25 : Avoid contact with skin and eyes.  
 S37 : Wear suitable gloves.  
 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**

: H314 : Causes severe skin burns and eye damage.  
 H301 : Toxic if swallowed.  
 H372 : Causes damage to organs through prolonged or repeated exposure.  
 H410 : Very toxic to aquatic life with long lasting effects.

**Precautionary statements**
**• Prevention**

: P280: Wear protective gloves, protective clothing, eye protection, face protection.  
 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+P330+P331: IF SWALLOWED : Rinse mouth. Do NOT induce vomiting.  
 P391: Collect spillage.  
 P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.  
 P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated

**MATERIAL SAFETY DATA SHEET (MSDS)**
**PHENYL MERCURY NITRATE (BASIC) (MERCURY PHENYL NITRATE)**
**2. Hazards identification -DSD (continued)**

- **Storage** : clothing. Rinse skin with water/shower.
- **Disposal considerations** : P363: Wash contaminated clothing before reuse.  
P314: Get medical advice if you feel unwell.  
: P405: Store locked up.  
: 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** : PHENYL MERCURY NITRATE (BASIC)99% for synthesis 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** : Immediately call a POISON CENTER or doctor. Remove to fresh air and keep at rest in a position comfortable for breathing.
- Skin contact** : Immediately call a POISON CENTER or doctor. Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing.
- Eye contact** : Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. Rinse cautiously with water for several minutes.
- Ingestion** : Specific treatment (see on this label). Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. Rinse mouth.

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

- Symptoms relating to use** : Swallowing a small quantity of this material will result in serious health hazard.  
Causes damage to organs through prolonged or repeated exposure.  
Causes severe skin burns and eye damage.

**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).

**MATERIAL SAFETY DATA SHEET (MSDS)**
**PHENYL MERCURY NITRATE (BASIC) (MERCURY PHENYL NITRATE)**
**5. Fire-fighting measures**
**5.1. Extinguishing media**

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
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. Thermal decomposition generates : Corrosive vapours.
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**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.
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**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.
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**6.4. Reference to other sections**

See section 8. Exposure controls/personal protection

**MATERIAL SAFETY DATA SHEET (MSDS)**
**PHENYL MERCURY NITRATE (BASIC) (MERCURY PHENYL NITRATE)**
**7. Handling and storage**
**7.1. Precautions for safe handling**

Handling	: Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust, fume, gas, mist, vapours, spray. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
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 closed when not in use.
Storage regulation	: Comply with applicable regulations.
Storage - away from	: Strong bases. Strong acids. Sources of ignition. Direct sunlight.

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

Specific end use(s)	: None.
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**8. Exposure controls/personal protection**
**8.1. Exposure controls**

Personal protection	: Avoid all unnecessary exposure.
• Respiratory protection	: Wear approved mask.
• Hand protection	: Wear protective gloves.
• Skin protection	: Wear suitable protective clothing.
• Eye protection	: Chemical goggles or face shield.
• Others	: When using, do not eat, drink or smoke.

**8.2. Control parameters**

Occupational Exposure Limits	: No data available.
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**9. Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

Physical state at 20 °C	: Solid.
Colour	: White crystalline
Odour	: N/A

**MATERIAL SAFETY DATA SHEET (MSDS)**
**PHENYL MERCURY NITRATE (BASIC) (MERCURY PHENYL NITRATE)**
**9. Physical and chemical properties (continued)**

Odour threshold	: No data available.
pH value	: Not applicable.
Melting point [°C]	: 175 - 185 °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]	: 0.0000019 hPa at 20°
Vapour pressure mm/Hg	: N/A
Vapour density	: N/A
Density [g/cm <sup>3</sup> ]	: N/A
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	: 6,6
Viscosity at 40°C [mm <sup>2</sup> /s]	: N/A

**9.2. Other information**

Explosive properties	: N/A
Explosion limits - upper [%]	: N/A
Explosion limits - lower [%]	: N/A
Oxidising properties	: No data available.

**10. Stability and reactivity**
**10.1. Reactivity.**

Reactivity	: Not established.
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**10.2. Chemical stability.**

Chemical stability	: Stable under recommended storage conditions.
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**MATERIAL SAFETY DATA SHEET (MSDS)**
**PHENYL MERCURY NITRATE (BASIC) (MERCURY PHENYL NITRATE)**
**10. Stability and reactivity (continued)**
**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.  
Thermal decomposition generates : Corrosive vapours.

**11. Toxicological information**
**11.1. Information on toxicological effects**
**Acute toxicity**

- Inhalation : Based on available data, the classification criteria are not met.
- Dermal : Based on available data, the classification criteria are not met.
- Ingestion : Toxic if swallowed.

Corrosion : Causes severe skin burns and eye damage.

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 : Causes damage to organs through prolonged or repeated exposure.

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.



**MATERIAL SAFETY DATA SHEET (MSDS)**
**PHENYL MERCURY NITRATE (BASIC) (MERCURY PHENYL NITRATE)**
**12. Ecological information (continued)**
**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** : PHENYLMERCURIC NITRATE  
**UN N°** : 1895  
**H.I. nr** : 60  
**ADR - Class** : 6.1  
**Labelling - Transport** : 6.1 : Toxic substances.



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**PHENYL MERCURY NITRATE (BASIC) (MERCURY PHENYL NITRATE)**
**14. Transport information (continued)**


ADR - Classification code : T3  
 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 : PHENYLMERCURIC NITRATE  
 UN N° : 1895  
 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  
 IMO-IMDG - Marine pollution : Yes  
 EMS-Nr : F-A S-A

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

Proper shipping name : PHENYLMERCURIC NITRATE  
 UN N° : 1895  
 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

**MATERIAL SAFETY DATA SHEET (MSDS)**

**PHENYL MERCURY NITRATE (BASIC) (MERCURY PHENYL NITRATE)**

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation 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.

**End of document**