# MATERIAL SAFETY DATA SHEET (MSDS)

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product form</td>
<td>Substance</td>
</tr>
<tr>
<td>EC index no</td>
<td>080-001-00-0</td>
</tr>
<tr>
<td>EC no</td>
<td>231-106-7</td>
</tr>
<tr>
<td>CAS No</td>
<td>7439-97-6</td>
</tr>
<tr>
<td>Product code</td>
<td>04594</td>
</tr>
<tr>
<td>Formula</td>
<td>Hg</td>
</tr>
</tbody>
</table>

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture: Laboratory chemicals, Manufacture of substances

#### 1.2.2. Uses advised against

No additional information available

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

LOBA CHEMIE PVT.LTD.
107 Wode House Road, Jehangir Villa, Colaba
400005 Mumbai - INDIA
T +91 22 6663 6663 - F +91 22 6663 6699
info@lobachemie.com - www.lobachemie.com

### 1.4. Emergency telephone number

Emergency number: + 91 22 6663 6663 (9:00am - 6:00 pm)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

- **Acute toxicity (inhal.), Category 2**  
  - H330
- **Reproductive toxicity, Category 1A**  
  - H360D
- **Specific target organ toxicity — Repeated exposure, Category 1**  
  - H372
- **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 or 1999/45/EC
Repr.Cat.2; R61
T+; R26
T; R48/23
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

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

Hazard pictograms (CLP): GHS06, GHS08, GHS09

Signal word (CLP): Danger

Hazard statements (CLP):
- H330 - Fatal if inhaled
- H360D - May damage the unborn child
- 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
- P260 - Do not breathe dust/fume/gas/mist/vapours/spray
- P273 - Avoid release to the environment
- P280 - Wear protective gloves/protective clothing/eye protection/face protection
- P310 - Immediately call a POISON CENTER or doctor/physician
- P501 - Dispose of contents/container to ...

2.3. Other hazards
No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Name: MERCURY (METAL) PURE
CAS No: 7439-97-6
EC no: 231-106-7
EC index no: 080-001-00-0

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

3.2. Mixture
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 person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.
First-aid measures after skin contact: Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion: Rinse mouth out with water. If you feel unwell, seek medical advice.

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

Symptoms/injuries: May damage the unborn child. Causes damage to organs through prolonged or repeated exposure.
Symptoms/injuries after skin contact: Fatal in contact with skin.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
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

Protection during firefighting: Do not attempt to take action without suitable protective equipment.

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

Protective equipment: Use personal protective equipment as required.
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: Clear up rapidly by scoop 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: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Hygiene measures: Do not eat, drink or smoke when using this product. Wash ... thoroughly after handling.
7.2. Conditions for safe storage, including any incompatibilities
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 safety glasses
Skin and body protection: Wear suitable protective clothing
Respiratory protection: Wear respiratory protection

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Physical state: Solid
Molecular mass: 200.59 g/mol
Colour: Silvery white.
Odour: odourless.
Odour threshold: No data available
pH: No data available
Relative evaporation rate (butylacetate=1): 4
Melting point: -38.87 °C
Freezing point: No data available
Boiling point: 356.6 °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: < 0.01 hPa at 20 °C
Relative vapour density at 20 °C: 6.93
Relative density: No data available
Density: 13.55 g/cm³
Solubility: Water: Insoluble in water
Log Pow: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosive properties: No data available
Oxidising 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
No additional information available

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
No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity: Inhalation: Fatal if inhaled.

Skin corrosion/irritation: Not classified
Serious eye damage/irritation: Not classified
Respiratory or skin sensitisation: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified

Reproductive toxicity: May damage the unborn child.
Specific target organ toxicity (single exposure): Not classified
Specific target organ toxicity (repeated exposure): Causes damage to organs through prolonged or repeated exposure.
MERCURY (METAL) PURE
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Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity
Ecology - water : Very toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>MERCURY (METAL) PURE (7439-97-6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative 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 ...

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number
UN-No. (ADR) : 2809
UN-No. (IMDG) : 2809
UN-No.(IATA) : 2809
UN-No.(ADN) : 2809
UN-No. (RID) : 2809

14.2. UN proper shipping name
Proper Shipping Name (ADR) : MERCURY
Proper Shipping Name (IMDG) : MERCURY
Proper Shipping Name (IATA) : MERCURY
Proper Shipping Name (ADN) : MERCURY
Proper Shipping Name (RID) : MERCURY
Transport document description (ADR) : UN 2809 MERCURY, 8 (6.1), III, (E), ENVIRONMENTALLY HAZARDOUS
# MERCURY (METAL) PURE
## Safety Data Sheet

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transport document description (IMDG)</td>
<td>UN 2809 MERCURY, 8 (6.1), III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS</td>
</tr>
<tr>
<td>Transport document description (IATA)</td>
<td>UN 2809 MERCURY, 8 (6.1), III, ENVIRONMENTALLY HAZARDOUS</td>
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<tr>
<td>Transport document description (ADN)</td>
<td>UN 2809 MERCURY, 8 (6.1), III, ENVIRONMENTALLY HAZARDOUS</td>
</tr>
<tr>
<td>Transport document description (RID)</td>
<td>UN 2809 MERCURY, 8 (6.1), III, ENVIRONMENTALLY HAZARDOUS</td>
</tr>
</tbody>
</table>

## 14.3. Transport hazard class(es)

### ADR
- Transport hazard class(es) (ADR): 8 (6.1)
- Danger labels (ADR): 8, 6.1

### IMDG
- Transport hazard class(es) (IMDG): 8 (6.1)
- Danger labels (IMDG): 8, 6.1

### IATA
- Transport hazard class(es) (IATA): 8 (6.1)
- Hazard labels (IATA): 8, 6.1

### ADN
- Transport hazard class(es) (ADN): 8 (6.1)
- Danger labels (ADN): 8, 6.1

### RID
- Transport hazard class(es) (RID): 8 (6.1)
- Danger labels (RID): 8, 6.1
### 14.4. Packing group

<table>
<thead>
<tr>
<th>Packing group (ADR)</th>
<th>III</th>
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</thead>
<tbody>
<tr>
<td>Packing group (IMDG)</td>
<td>III</td>
</tr>
<tr>
<td>Packing group (IATA)</td>
<td>III</td>
</tr>
<tr>
<td>Packing group (ADN)</td>
<td>III</td>
</tr>
<tr>
<td>Packing group (RID)</td>
<td>III</td>
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</table>

### 14.5. Environmental hazards

<table>
<thead>
<tr>
<th>Dangerous for the environment</th>
<th>Yes</th>
</tr>
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<tbody>
<tr>
<td>Marine pollutant</td>
<td>Yes</td>
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<tr>
<td>Other information</td>
<td>No supplementary information available</td>
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</table>

### 14.6. Special precautions for user

**- Overland transport**

<table>
<thead>
<tr>
<th>Classification code (ADR)</th>
<th>CT1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special provision (ADR)</td>
<td>365</td>
</tr>
<tr>
<td>Limited quantities (ADR)</td>
<td>5kg</td>
</tr>
<tr>
<td>Excepted quantities (ADR)</td>
<td>E0</td>
</tr>
<tr>
<td>Packing instructions (ADR)</td>
<td>P800</td>
</tr>
<tr>
<td>Mixed packing provisions (ADR)</td>
<td>MP15</td>
</tr>
<tr>
<td>Tank code (ADR)</td>
<td>L4BN</td>
</tr>
<tr>
<td>Vehicle for tank carriage</td>
<td>AT</td>
</tr>
<tr>
<td>Transport category (ADR)</td>
<td>3</td>
</tr>
<tr>
<td>Special provisions for carriage - Loading, unloading and handling (ADR)</td>
<td>CV13, CV28</td>
</tr>
<tr>
<td>Hazard identification number (Kemler No.)</td>
<td>86</td>
</tr>
<tr>
<td>Orange plates</td>
<td>86</td>
</tr>
<tr>
<td>Tunnel restriction code (ADR)</td>
<td>E</td>
</tr>
<tr>
<td>EAC code</td>
<td>2X</td>
</tr>
</tbody>
</table>

**- Transport by sea**

<table>
<thead>
<tr>
<th>Special provision (IMDG)</th>
<th>365</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limited quantities (IMDG)</td>
<td>5 kg</td>
</tr>
<tr>
<td>Excepted quantities (IMDG)</td>
<td>E0</td>
</tr>
<tr>
<td>Packing instructions (IMDG)</td>
<td>P800</td>
</tr>
<tr>
<td>EmS-No. (Fire)</td>
<td>F-A</td>
</tr>
<tr>
<td>EmS-No. (Spillage)</td>
<td>S-B</td>
</tr>
<tr>
<td>Stowage category (IMDG)</td>
<td>B</td>
</tr>
<tr>
<td>Stowage and handling (IMDG)</td>
<td>SW2</td>
</tr>
<tr>
<td>Segregation (IMDG)</td>
<td>SG24</td>
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<tr>
<td>MFAG-No</td>
<td>172</td>
</tr>
</tbody>
</table>

**- Air transport**

| PCA Excepted quantities (IATA) | E0   |
| PCA Limited quantities (IATA)  | Forbidden |
| PCA limited quantity max net quantity (IATA) | Forbidden |
| PCA packing instructions (IATA) | 868  |
| PCA max net quantity (IATA)    | 35kg |
| CAO packing instructions (IATA) | 868  |
| CAO max net quantity (IATA)    | 35kg |
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Special provision (IATA) : A804
ERG code (IATA) : 8L

- Inland waterway transport
  Classification code (ADN) : CT1
  Special provisions (ADN) : 365
  Limited quantities (ADN) : 5 kg
  Excepted quantities (ADN) : E0
  Equipment required (ADN) : PP, EP, EX, TOX, A
  Ventilation (ADN) : VE02
  Number of blue cones/lights (ADN) : 0

- Rail transport
  Classification code (RID) : CT1
  Special provision (RID) : 365
  Limited quantities (RID) : 5kg
  Excepted quantities (RID) : E0
  Packing instructions (RID) : P800
  Mixed packing provisions (RID) : MP15
  Tank codes for RID tanks (RID) : L4BN
  Transport category (RID) : 3
  Special provisions for carriage – Loading and unloading (RID) : CW13, CW28
  Colis express (express parcels) (RID) : CE8
  Hazard identification number (RID) : 86

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions
MERCURY (METAL) PURE is not on the REACH Candidate List
MERCURY (METAL) PURE is not on the REACH Annex XIV List

15.1.2. National regulations

Germany
AwSV/VwVwS Annex reference : Water hazard class (WGK) 3, strongly hazardous to water (Classification according to VwVwS, Annex 2; WGK No 393)

Denmark
Recommendations Danish Regulation:

1. Young people below the age of 18 years are not allowed to use the product.
2. Pregnant/breastfeeding women working with the product must not be in direct contact with the product.
3. The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal.

### 15.2. Chemical safety assessment

No additional information available

### SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 2 (Inhalation)</td>
<td>Acute toxicity (inhal.), Category 2</td>
</tr>
<tr>
<td>Aquatic Chronic 1</td>
<td>Hazardous to the aquatic environment — Chronic Hazard, Category 1</td>
</tr>
<tr>
<td>Repr. 1A</td>
<td>Reproductive toxicity, Category 1A</td>
</tr>
<tr>
<td>STOT RE 1</td>
<td>Specific target organ toxicity — Repeated exposure, Category 1</td>
</tr>
<tr>
<td>H330</td>
<td>Fatal if inhaled</td>
</tr>
<tr>
<td>H360D</td>
<td>May damage the unborn child</td>
</tr>
<tr>
<td>H372</td>
<td>Causes damage to organs through prolonged or repeated exposure</td>
</tr>
<tr>
<td>H410</td>
<td>Very toxic to aquatic life with long lasting effects</td>
</tr>
<tr>
<td>R26</td>
<td>Very toxic by inhalation</td>
</tr>
<tr>
<td>R48/23</td>
<td>Toxic: danger of serious damage to health by prolonged exposure through inhalation</td>
</tr>
<tr>
<td>R50/53</td>
<td>Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment</td>
</tr>
<tr>
<td>R61</td>
<td>May cause harm to the unborn child</td>
</tr>
<tr>
<td>N</td>
<td>Dangerous for the environment</td>
</tr>
<tr>
<td>T</td>
<td>Toxic</td>
</tr>
<tr>
<td>T+</td>
<td>Very toxic</td>
</tr>
</tbody>
</table>

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.