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## MATERIAL SAFETY DATA SHEET (MSDS)

### MERCURY METAL AR

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

##### 1.1. Product identifier

Trade name : MERCURY METAL AR

Product code : M0133000100

Identification of the product : mercury  
 CAS No: 7439-97-6  
 EC No :231-106-7  
 Annex No :080-001-00-0

Chemical formula : Hg

##### 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 : Repr. Cat. 2; R61  
 T+; R26  
 T; R48/23  
 N; R50-53

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

Health hazards : Reproductive toxicity - Unborn Child - Category 1B - Danger (CLP : Repr. 1B) H360  
 Specific Target Organ Toxicity - Repeated exposure - Category 1 - Danger (CLP : STOT RE 1) H372  
 Acute toxicity, Inhalation - Category 2 - Danger (CLP : Acute Tox. 2) H330

**MATERIAL SAFETY DATA SHEET (MSDS)**
**MERCURY METAL AR**
**2. Hazards identification -DSD (continued)**

**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)**

**Symbol(s)**

T+ : Very toxic  
 N : Dangerous for the environment

**R Phrase(s)**

R61 : May cause harm to the unborn child.  
 R26 : Very toxic by inhalation.  
 R48/23 : Toxic : danger of serious damage to health by prolonged exposure through inhalation.  
 R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S Phrase(s)**

S53 : Avoid exposure - obtain special instructions before use.  
 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.

**Contains**

: mercury

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

**Signal words**

: Danger

**Hazard statements**

H360D: May damage the unborn child.  
 H330 : Fatal if inhaled.  
 H372 : Causes damage to organs through prolonged or repeated exposure.  
 H410 : Very toxic to aquatic life with long lasting effects.

**Precautionary statements**
**• General**

: P201: Obtain special instructions before use.

**• Prevention**

: P284: Wear respiratory 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.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**MERCURY METAL AR**
**2. Hazards identification -DSD (continued)**

- **Response** : P264: Wash thoroughly after handling.  
 P270: Do not eat, drink or smoke when using this product.  
 : P308+P313: If exposed or concerned : get medical advice.  
 P391: Collect spillage.  
 P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.  
 P314: Get medical advice if you feel unwell.
- **Storage** : P403+P233: Store in well-ventilated place. Keep container tightly closed.  
 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.
- Special labelling** : Restricted to professional users. (Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008)
- Contains** : mercury

**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** : mercury

EC No :231-106-7  
 Annex No :080-001-00-0  
 Substance.

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
mercury	: 100 %	7439-97-6	231-106-7	080-001-00-0	----	Repr. Cat. 2; R61 T+; R26 T; R48/23 N; R50-53 ----- Repr. 1B _ H360D Acute Tox. 2 (inhal) _ H330 STOT RE 1 _ H372 Aquatic Acute 1 _ H400 Aquatic Chronic 1 _ H410

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). Immediately call a POISON CENTER or doctor. Remove to fresh air and keep at rest in a position comfortable for breathing.

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**4. First aid measures (continued)**

<b>Skin contact</b>	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
<b>Eye contact</b>	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
<b>Ingestion</b>	: Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.

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

<b>Symptoms relating to use</b>	: May damage the unborn child. Causes damage to organs through prolonged or repeated exposure. Fatal if inhaled.
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**4.3. Indication of any immediate medical attention and special treatment needed**

<b>General information</b>	: Never give anything by mouth to an unconscious person. If exposed or concerned : get medical advice.
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**5. Fire-fighting measures**
**5.1. Extinguishing media**

<b>Suitable extinguishing media</b>	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
<b>Unsuitable extinguishing media</b>	: Do not use a heavy water stream.
<b>Surrounding fires</b>	: Use water spray or fog for cooling exposed containers.

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

<b>Hazardous combustion products</b>	: Under fire conditions, hazardous fumes will be present.
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**5.3. Advice for fire-fighters**

<b>Protection against fire</b>	: Do not enter fire area without proper protective equipment, including respiratory protection.
<b>Special procedures</b>	: 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**

<b>For emergency responders</b>	: Equip cleanup crew with proper protection. Ventilate area.
<b>For non-emergency personnel</b>	: Evacuate unnecessary personnel.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**MERCURY METAL AR**
**6. Accidental release measures (continued)**
**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** : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Collect spillage.

**6.4. Reference to other sections**

See section 8. Exposure controls/personal protection

**7. Handling and storage**
**7.1. Precautions for safe handling**

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

**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.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**MERCURY METAL AR**
**8. Exposure controls/personal protection (continued)**

• 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.
Colour	: Silvery white
Odour	: Odorless
Odour threshold	: No data available.
pH value	: No data available.
Melting point [°C]	: -38.87 °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]	: 356.6 °C
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: 4
Vapour pressure [20°C]	: < 0.01 hPa at 20 °C
Vapour pressure mm/Hg	: N/A
Vapour density	: 6,93
Density [g/cm3]	: 13,55
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Insoluble in water
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm2/s]	: N/A

**9.2. Other information**

Explosive properties : N/A

**MATERIAL SAFETY DATA SHEET (MSDS)**
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**9. Physical and chemical properties (continued)**

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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**10.3. Possibility of hazardous reactions**

Hazardous reactions	: Not established.
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**10.4. Conditions to avoid**

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

Materials to avoid	: Strong acids. Strong bases.
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**10.6. Hazardous decomposition products**

Hazardous decomposition products	: Fumes. Carbon monoxide. Carbon dioxide.
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**11. Toxicological information**
**11.1. Information on toxicological effects**
**Acute toxicity**

• Inhalation	: Fatal if inhaled.
• Dermal	: Based on available data, the classification criteria are not met.
• Ingestion	: Based on available data, the classification criteria are not met.

**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.



**MATERIAL SAFETY DATA SHEET (MSDS)**
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**11. Toxicological information (continued)**

<b>Carcinogenicity</b>	: Based on available data, the classification criteria are not met.
<b>Toxic for reproduction</b>	: May damage the unborn child.
<b>STOT-single exposure</b>	: Based on available data, the classification criteria are not met.
<b>STOT-repeated exposure</b>	: Causes damage to organs through prolonged or repeated exposure.
<b>Aspiration hazard</b>	: Based on available data, the classification criteria are not met.

**12. Ecological information**
**12.1. Toxicity**

<b>Toxicity information</b>	: Very toxic to aquatic life with long lasting effects.
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**12.2. Persistence - degradability**

<b>Persistence - degradability</b>	: May cause long-term adverse effects in the environment.
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**12.3. Bioaccumulative potential**

<b>Bioaccumulative potential</b>	: Not established.
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**12.4. Mobility in soil**

<b>Mobility in soil</b>	: Not established.
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**12.5. Results of PBT and vPvB assessment**

<b>Results of PBT and vPvB assessment</b>	: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.
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**12.6. Other adverse effects**

<b>Environmental precautions</b>	: Avoid release to the environment.
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**13. Disposal considerations**
**13.1. Waste treatment methods**

<b>General</b>	: 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.
<b>Special precautions</b>	: Hazardous waste due to toxicity.



**MATERIAL SAFETY DATA SHEET (MSDS)**
**MERCURY METAL AR**
**14. Transport information**
**14.1. Land transport (ADR-RID)**

Proper shipping name : MERCURY  
 UN N° : 2809  
 H.I. nr : 80  
 ADR - Class : 8  
 Labelling - Transport : 8 : Corrosive substance.



ADR - Classification code : C9  
 ADR - Group : III  
 ADR - Packing instructions : P800  
 ADR - Limited Quantity : 5 KG  
 ADR - Tunnel code : E : Passage forbidden through tunnels of category E.


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

Proper shipping name : MERCURY  
 UN N° : 2809  
 IMO-IMDG - Class or division : 8 : Corrosive substance.  
 IMO-IMDG - Packing group : III  
 IMO-IMDG - Marine pollution : Yes

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

Proper shipping name : MERCURY  
 UN N° : 2809  
 IATA - Class or division : 8 : Corrosive substance.  
 IATA - Packing group : III  
 IATA - Passenger and Cargo Aircraft : ALLOWED  
 - Passenger and Cargo - Packing instruction : 868  
 - Passenger and Cargo - Maximum Quantity/Packing : 35 kg

**MATERIAL SAFETY DATA SHEET (MSDS)**
**MERCURY METAL AR**
**14. Transport information (continued)**

IATA - Cargo only : ALLOWED  
 - Cargo only - Packing instruction : 868  
 - Cargo only - Maximum Quantity/ Packing : 35 kg  
 ERG-Nr : 8L

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

Safety, health and environmental regulations/legislation specific for the substance or mixture : Ensure all national/local regulations are observed.  
 REACH Restrictions - Annex XVII : Annex XVII  
 With the exception of those listed below:  
 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**

Revision : Revision - See : \*  
 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  
 List of relevant R phrases (heading 3) : R26 : Very toxic by inhalation.  
 R48/23 : Toxic : danger of serious damage to health by prolonged exposure through inhalation.  
 R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 R61 : May cause harm to the unborn child.  
 List of full text of H-statements in section 3 : H330 : Fatal if inhaled.  
 H360U : May damage the unborn child.  
 H372 : Causes damage to organs through prolonged or repeated exposure.  
 H400 : Very toxic to aquatic life.  
 H410 : Very toxic to aquatic life with long lasting effects.  
 Further information : None.

**MATERIAL SAFETY DATA SHEET (MSDS)**

**MERCURY METAL AR**

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

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**End of document**