

# MATERIAL SAFETY DATA SHEET (MSDS) 1,10-PHENANTHROLINE HYDROCHLORIDE AR

1. Identification of the substance/mixture and of the company/undertaking	
<u>1.1. Product identifier</u> Trade name	: 1,10-PHENANTHROLINE HYDROCHLORIDE AR
Product code Identification of the product	: P0155900025 : 1,10-PHENANTHROLINE HYDROCHLORIDE AR 99.5% CAS No: 18851-33-7
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
<u>1.4. Emergency telephone number</u>	
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
 : T; R25

 N; R50-53

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

Health hazards	: 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

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

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2. Hazards identification -DSD (continued)	
Symbol(s)	
Symbol(s)	: T : Toxic N : Dangerous for the environment
R Phrase(s)	: R25 : Toxic if swallowed. R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S Phrase(s)	<ul> <li>S45 : In case of accident or if you feel unwell, seek medical advice immediately ( show the label when possible).</li> <li>S60 : This material and its container must be disposed of as hazardous waste.</li> <li>S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.</li> </ul>
Labelling Regulation EC 1272/2008 (CLP)	
Hazard pictograms	
Signal words	: Danger
Hazard statements	: H301 : Toxic if swallowed. H410 : Very toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: 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.
Storage	: P405: Store locked up.
<ul> <li>Disposal considerations</li> </ul>	: 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 in	gredients
Substance / Preparation	: 1,10-PHENANTHROLINE HYDROCHLORIDE AR 99.5%

Substance.

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## 3. Composition/information on ingredients (continued)

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.	
Skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.	
Eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.	
Ingestion	: Immediately call a POISON CENTER or doctor. Specific treatment (see on this label). 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.	
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 Unsuitable extinguishing media Surrounding fires	: Foam. Dry powder. Carbon dioxide. Water spray. Sand. : Do not use a heavy water stream. : 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.	



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## 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	<ul> <li>Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Avoid release to the environment.</li> </ul>	
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 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 - away from	: Strong bases. Strong acids. Sources of ignition. Direct sunlight.
<u>7.3. Specific end use(s)</u>	
Specific end use(s)	: None.

## 8. Exposure controls/personal protection

## 8.1. Exposure controls



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Personal protection	: Avoid all unnecessary exposure.
<ul> <li>Respiratory protection</li> </ul>	: Wear approved mask.
<ul> <li>Hand protection</li> </ul>	: Wear protective gloves.
<ul> <li>Eye protection</li> </ul>	: 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.
Colour	: Colorless crystals
Odour	: N/A
Odour threshold	: No data available.
pH value	: Not applicable.
Melting point [°C]	: 224 - 225 °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	: N/A
Density [g/cm3]	: 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	: N/A



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9. Physical and chemical properties	(continued)
Viscosity at 40°C [mm2/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	
<u>10.1. Reactivity</u>	
Reactivity	: Not established.
<u>10.2. Chemical stability</u>	
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 prod	<u>ucts</u>
Hazardous decomposition products	: Fumes. Carbon monoxide. Carbon dioxide.
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## 11. Toxicological information

# 11.1. Information on toxicological effects Acute toxicity • Inhalation • Dermal : Based on available data, the classification criteria are not met. : 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.



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## 11. Toxicological information (continued)

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

<u>12.1. Toxicity</u>		
Toxicity information	: Very toxic to aquatic life with long lasting effects.	
<u> 12.2. Persistence - degradability</u>		
Persistence - degradability	: May cause long-term adverse effects in the environment.	
12.3. Bioaccumulative potential		
Bioaccumulative potential	: Not established.	
<u>12.4. Mobility in soil</u>		
Mobility in soil	: Not established.	
12.5. Results of PBT and vPvB assessment		
Results of PBT and vPvB assessm	ent : 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	

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Special precautions	point, in accordance with local, regional, national and/or international regulation : Hazardous waste due to toxicity.
. Transport information	
14.1. Land transport (ADR-RID)	
UN N°	: 2811
H.I. nr	: 60
ADR - Class	: 6.1
Labelling - Transport	: 6.1 : Toxic substances.
ADR - Classification code	: T2
ADR - Group	: 111
14.2. Sea transport (IMDG) [Englis	<u>h only]</u>
UN N°	: 2811
MO-IMDG - Class or division	: 6.1 : Toxic substances.
IMO-IMDG - Packing group	: 111
14.3. Air transport (ICAO-IATA) [E	nglish only]
UN N°	: 2811
IATA - Class or division	: 6.1 : Toxic substances.
IATA - Packing group	: 111

## 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 th substance or mixture	: Ensure all national/local regulations are observed. e
<b>REACH Restrictions - Annex XVII</b>	: The components of this product are not subject to restrictions.
<b>REACH</b> Authorisation - Annex XIV	: The components of this product are not subject to authorization.
15.2. Chemical Safety Assessment	



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In accordance with REACH Regulation (CE) Nº 1907/2006 and with CLP Regulation (CE) Nº 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.

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