

CHAITANYA CHS, 2nd FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAł 400062, MH, INDIA. CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

MATERIAL SAFETY DATA SHEET (MSDS) HYDROXYLAMINE SULPHATE LR

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

1.1. Product identifier			
Trade name	: HYDROXYLAMINE SULPHATE LR		
Product code	: H0109800500		
Identification of the product	: bis(hydroxylammonium) sulphate CAS No: 10039-54-0 EC No :233-118-8 Annex No :612-123-00-2		
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		
1.4. Emergency telephone number	Email ID: info@suvchem.com/care@suvchem.com		
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

: E; R2 Carc. Cat. 3; R40 Xn; R21/22-48/22 Xi; R36/38 R43 N; R50

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

Health hazards: Carcinogenicity - Category 2 - Warning (CLP : Carc. 2) H351
Specific Target Organ Toxicity - Repeated exposure - Category 2 - Warning (CLP :
STOT RE 2) H373
Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315
Skin sensitisation - Category 1 - Warning (CLP : Skin Sens. 1) H317
Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319

Page: 1

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MATERIAL SAFETY DATA SHEET (MSDS) HYDROXYLAMINE SULPHATE LR

2. Hazards identification -DSD (continued)		
Physical hazards Environmental hazards	 Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302 Acute toxicity, dermal - Category 4 - Warning (CLP : Acute Tox. 4) H312 Explosives - Division 1.3 - Danger (CLP : Expl. 1.3) H203 Hazardous to the aquatic environment - Acute hazard - Category 1 - Warning (CLP : Aquatic Acute 1) H400 	
2.2. Label elements		
Labelling EC 67/548 or EC 1999/4	<u>5</u>	
Symbol(s)		
Symbol(s)	:E : Explosive. Xn : Harmful N : Dangerous for the environment	
R Phrase(s)	 R2 : Risk of explosion by shock, friction, fire or other sources of ignition. R21/22 : Harmful in contact with skin and if swallowed. R36/38 : Irritating to eyes and skin. R40 : Limited evidence of a carcinogenic effect. R43 : May cause sensitization by skin contact. R48/22 : Harmful : danger of serious damage to health by prolonged exposure if swallowed. R50 : Very toxic to aquatic organisms. 	
S Phrase(s)	 S2 : Keep out of the reach of children. S36/37 : Wear suitable protective clothing and gloves. S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets. 	
Contains	: bis(hydroxylammonium) sulphate	
Labelling Regulation EC 1272/200	<u>08 (CLP)</u>	
Hazard pictograms		

Signal words Hazard statements : Danger

- : H203 : Explosive; fire, blast or projection hazard.
 - H351 : Suspected of causing cancer.
 - H302 : Harmful if swallowed.
 - H312 : Harmful in contact with skin.
 - H319 : Causes serious eye irritation.
 - H315 : Causes skin irritation.
 - H317 : May cause an allergic skin reaction.
 - H373 : May cause damage to organs through prolonged or repeated exposure.



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MATERIAL SAFETY DATA SHEET (MSDS) HYDROXYLAMINE SULPHATE LR

2. Hazards identification -DSD (continued)		
	H400 : Very toxic to aquatic life.	
Precautionary statements		
• General	 P102: Keep out of reach of children. P103: Read label before use. P101: If medical advice is needed, have product container or label at hand. P201: Obtain special instructions before use. 	
• Prevention	 P240: Ground/bond container and receiving equipment. P210: Keep away from heat, sparks, open flames or hot surfaces No smoking. 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. P230: Keep wetted with : (See information supplied by the manufacturer) P250: Do not subject to grinding, shock,, friction. P264: Wash thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P272: Contaminated work clothing should not be allowed out of the workplace. 	
• Response	 P370+P380: In case of fire : Evacuate area. P372: Explosion risk in case of fire. P373: DO NOT fight fire when fire reaches explosives. P302+P352: IF ON SKIN : Wash with plenty of soap and water. P301+P312: IF SWALLOWED : Call a POISON CENTER or doctor if you feel unwell. P308+P313: If exposed or concerned : get medical advice. P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333+P313: If skin irritation or rash occurs : Get medical advice. P363: Wash contaminated clothing before reuse. P314: Get medical advice if you feel unwell. 	
Storage	: P401: Store in accordance with local, regional, national or international regulation. 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.	
Contains	: bis(hydroxylammonium) sulphate	
2.3. Other hazards		
Other hazards	: The substance does not fulfil the criteria to be identified as PBT substance or vPvE substance according to Annex XIII of Regulation REACH.	

3. Composition/information on ingredients		
Substance / Preparation	: bis(hydroxylammonium) sulphate	
	EC No :233-118-8 Annex No :612-123-00-2 Substance.	



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MATERIAL SAFETY DATA SHEET (MSDS) HYDROXYLAMINE SULPHATE LR

3. Composition/information on ingredients (continued)

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
bis(hydroxylammonium) sulphate :	100 %	10039-54-0	233-118-8	612-123-00-2		E; R2 Carc. Cat. 3; R40 Xn; R21/22-48/22 Xi; R36/38 R43 N; R50
						Expl. 1.3 _ H203 Acute Tox. 4 (skin) _ H312 Acute Tox. 4 (oral) _ H302 Carc. 2 _ H351 Eye irrit. 2 _ H319 Skin Irrit. 2 _ H315 Skin Sens. 1 _ H317 STOT RE 2 _ H373 Aquatic Acute 1 _ H400
Contains no other components	s or impurities w	hich will influe	ence the cla	assification of t	he product.	

4. First aid measures

4.1. Description of first aid measures Inhalation : Assure fresh air breathing. Allow the victim to rest. : Immediately call a POISON CENTER or doctor. Specific treatment (see on this Skin contact label). Wash with plenty of soap and water. Wash contaminated clothing before reuse. Get medical advice. If skin irritation or rash occurs : : Get medical advice. If eve irritation persists : Remove contact lenses, if present and Eve contact easy to do. Continue rinsing. Rinse cautiously with water for several minutes. : Obtain emergency medical attention. Call a POISON CENTER or doctor if you feel Ingestion unwell. Rinse mouth. Do NOT induce vomiting. 4.2. Most important symptoms and effects, both acute and delayed : Suspected of causing cancer. Symptoms relating to use Causes damage to organ. Repeated exposure to this material can result in absorption through skin causing significant health hazard. Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. 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



MATERIAL SAFETY DATA SHEET (MSDS) HYDROXYLAMINE SULPHATE LR

5. Fire-fighting measures (continued)		
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		
Flammable class	: Explosive.	
Hazardous combustion products	: Under fire conditions, hazardous fumes will be present. May form flammable/explosive vapour-air mixture.	
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. Evacuate area. DO NOT fight fire when fire reaches explosives.	

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures		
For emergency responders	: Equip cleanup crew with proper protection. Ventilate area.	
Technical measures	: Use special care to avoid static electric charges.	
Special precautions	: Remove ignition sources. No naked lights. No smoking.	
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, sween or shovel into suitable containers. Minimize generation of dust	

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



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MATERIAL SAFETY DATA SHEET (MSDS)

HYDROXYLAMINE SULPHATE LR

7. Handling and storage	
7.1. Precautions for safe handling	
Handling	: Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Avoid breathing dust, fume, gas, mist, vapours, spray. Wash thoroughly after handling. Wash thoroughly after handling. Wash contaminated clothing before reuse. Do not subject to grinding, shock,, friction. Obtain special instructions before use.
Technical protective measures	: Provide good ventilation in process area to prevent formation of vapour. Proper grounding procedures to avoid static electricity should be followed.
Special precautions	: Avoid breathing dust, fume, gas, mist, vapours, spray.
7.2. Conditions for safe storage, inc	cluding any incompatibilities
Storage	: Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use. Store in accordance with local, regional, national or international regulation. Ground/bond container and receiving equipment.
Storage - away from	: Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources.
<u>7.3. Specific end use(s)</u>	
Specific end use(s)	: None.

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 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.



MATERIAL SAFETY DATA SHEET (MSDS) HYDROXYLAMINE SULPHATE LR

9. Physical and chemical properties (continued)

Colour	: White crystalline
Odour	: Odorless
Odour threshold	: No data available.
pH value	: Not applicable.
Melting point [°C]	: 170 °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]	: 1,9
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Freely soluble
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: 3.6
Viscosity at 40°C [mm2/s]	: N/A
0.0. Othern information	
9.2. Other information	
Explosive properties	: Explosive; fire, blast or projection hazard. 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.



MATERIAL SAFETY DATA SHEET (MSDS) HYDROXYLAMINE SULPHATE LR

10. Stability and reactivity (continued)		
<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. Heat. Sparks. Open flame. Direct sunlight. Overheating.	
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	: Based on available data, the classification criteria are not met.
• Dermal	: Harmful in contact with skin.
Ingestion	: Harmful if swallowed.
Corrosion	: Based on available data, the classification criteria are not met.
Irritation	: Causes serious eye irritation. Causes skin irritation.
Sensitization	: May cause an allergic skin reaction.
Mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Suspected of causing cancer.
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	: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Based on available data, the classification criteria are not met.



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MATERIAL SAFETY DATA SHEET (MSDS) HYDROXYLAMINE SULPHATE LR

12. Ecological information	12. Ecological information		
<u>12.1. Toxicity</u>			
Toxicity information	: Very toxic to aquatic life.		
<u> 12.2. Persistence - degradability</u>			
Persistence - degradability	: Biodegradable.		
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 assessme	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. Hazardous waste due to potential risk of explosion. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. 		
14. Transport information			

14.1. Land transport (ADR-RID)

Proper shipping name	: HYDROXYLAMINE SULPHATE
UN N°	: 2865
H.I. nr	: 80
ADR - Class	: 8



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MATERIAL SAFETY DATA SHEET (MSDS) HYDROXYLAMINE SULPHATE LR

14. Transport information (continued)

Labelling - Transport

: 8 : Corrosive substance.



- ADR Classification code
- **ADR Group**
- **ADR Packing instructions**
- ADR Limited Quantity
- ADR Tunnel code

: C2 : III : P002 R001 LP002 : 5 KG



: E : Passage forbidden through tunnels of category E.

14.2. Sea transport (IMDG) [English only]

Proper shipping name	: HYDROXYLAMINE SULPHATE
UN N°	: 2865
IMO-IMDG - Class or division	: 8 : Corrosive substance.
IMO-IMDG - Packing group	: 111
IMO- IMDG - Packing instructions	: P002 LP02
IMO-IMDG - Limited quantities	: 5 kg
IMO-IMDG - Marine pollution	: Yes
EMS-Nr	: F-A S-B

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

Proper shipping name	: HYDROXYLAMINE SULPHATE
UN N°	: 2865
IATA - Class or division	: 8 : Corrosive substance.
IATA - Packing group	: 111
IATA - Passenger and Cargo Aircraft	: ALLOWED
- Passenger and Cargo - Packing instruction	: 860
- Passenger and Cargo - Maximum Quantity/Packing	: 25 kg
IATA - Cargo only	: ALLOWED
- Cargo only - Packing instruction	: 864
- Cargo only - Maximum Quantity/ Packing	: 100 kg



MATERIAL SAFETY DATA SHEET (MSDS)

HYDROXYLAMINE SULPHATE LR

14. Transport information (continued)				
	: 5 kg			
·	: 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	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) :	 R2 : Risk of explosion by shock, friction, fire or other sources of ignition. R21/22 : Harmful in contact with skin and if swallowed. R36/38 : Irritating to eyes and skin. R40 : Limited evidence of a carcinogenic effect. R43 : May cause sensitization by skin contact. R48/22 : Harmful : danger of serious damage to health by prolonged exposure if swallowed. R50 : Very toxic to aquatic organisms. 			
List of full text of H-statements in section 3	 H203 : Explosive; fire, blast or projection hazard. H302 : Harmful if swallowed. H312 : Harmful in contact with skin. H315 : Causes skin irritation. H317 : May cause an allergic skin reaction. H319 : Causes serious eye irritation. H351 : Suspected of causing cancer. H373 : May cause damage to organs through prolonged or repeated exposure. H400 : Very toxic to aquatic life. 			
Further information	None.			



MATERIAL SAFETY DATA SHEET (MSDS)

HYDROXYLAMINE SULPHATE LR

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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Page :12

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