CAS No: 56-45-1 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking			
1.1. Product identifier			
Product form	: Substance		
CAS No	: : 56-45-1		
Product code	: 05687		
Chemical structure	: O		
	но		
	NH₂		
Synonyms	: (S)-2-Amino-3-hydroxypropionic acid		
1.2. Relevant identified uses of the s	ubstance 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 saf	ety data sheet		
SPAN LAB			
UNIT NO. 14,SKY INDUSTRIAL ESTATE 401208 Mumbai - INDIA	E, WALIV, VASAI (E)		
PH: +91 9820509929			
info@spanlab.in www.spanlab.in			

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC Not classified Safety Data Sheet

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

2.3.	Other hazards	

No additional information available

3.1. Substance	
Name : L-SERINE FOR BIOCHEMISTRY	
CAS No : 56-45-1	

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 measure	S
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	: Gently wash with plenty of soap and 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

No additional information available

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

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

Safety Data Sheet

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 Avoid release to the environment. 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
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No additional information available
SECTION 7: Handling and storage
7.1. Precautions for safe handling
Precautions for safe handling : Do not get in eyes, on skin, or on clothing.
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
difficing of shoking and when leaving work.
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

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	

Physical state

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Salety Data Sheet	
Colour	: White crystalline.
Odour	: odourless.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 222 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density Solubility	: 1.537 g/cm³ : Water: Soluble 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 reactio	ns
No additional information available	
10.4. Conditions to avoid	
Direct sunlight. Air contact. Moisture.	
10.5. Incompatible materials	
No additional information available	

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10.6. Hazardous decomposition products

No additional information available

CECTION 44. Toxical starting information	
SECTION 11: Toxicological information	n
11.1. Information on toxicological e	effects
Acute toxicity	: Not classified
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	: Not classified
Specific target organ toxicity (single	: Not classified
exposure)	
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information
12.1. Toxicity
No additional information available

12.2. Persistence and degradability

No additional information available

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

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

No additional information available

SECTION 14: Transport information

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

14.1. UN number JN-No. (ADR) : Not applicable JN-No. (IMDG) : Not applicable JN-No. (IATA) : Not applicable JN-No. (ADN) : Not applicable JN-No. (RID) : Not applicable IM-No. (RID) : Not applicable Proper Shipping name Image: Shipping name Proper Shipping Name (ADR) : Not applicable Proper Shipping Name (IMDG) : Not applicable Proper Shipping Name (IATA) : Not applicable Proper Shipping Name (ADN) : Not applicable Proper Shipping Name (RID) : Not applicable Proper Shipping Name (ADR) : Not applicable <t< th=""></t<>
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Proper Shipping Name (IATA) : Not applicable Proper Shipping Name (ADN) : Not applicable Proper Shipping Name (RID) : Not applicable 14.3. Transport hazard class(es) ADR
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Proper Shipping Name (RID) : Not applicable 14.3. Transport hazard class(es) ADR Image: Constraint of the second
14.3. Transport hazard class(es) ADR
ADR
ADR
MDG
Transport hazard class(es) (IMDG) : Not applicable
ΑΤΑ
Transport hazard class(es) (IATA) : Not applicable
ADN
Transport hazard class(es) (ADN) : Not applicable
RID
Transport hazard class(es) (RID) : Not applicable
14.4. Packing group
Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable
14.5. Environmental hazards
Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

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14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea No data available

- Air transport No data available

- Inland waterway transport

No data available

- Rail transport No data available

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

L-SERINE FOR BIOCHEMISTRY is not on the REACH Candidate List

L-SERINE FOR BIOCHEMISTRY is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

AwSV/VwVwS Annex reference	: Water hazard class (WGK) 1, slightly hazardous to water (Classification according to VwVwS, Annex 2; WGK No 6704))
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)	

15.2. Chemical safety assessment No additional information available

SECTION 16: Other information

Safety Data Sheet

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