



## MATERIAL SAFETY DATA SHEET

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L-SERINE, 99%

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MSDS Name:** L-SERINE, 99%

**Catalog Numbers:**

13266-0000, 13266-0250, 13266-1000, 13266-5000

**Synonyms:**

(S)-2-Amino-3-hydroxypropionic acid.

**Company Identification (Europe): Acros Organics BVBA**

Janssen Pharmaceuticaaan 3a  
2440 Geel, Belgium

**Company Identification (USA): Acros Organics**

One Reagent Lane  
Fairlawn, NJ 07410

For information in North America, call: 800-ACROS-01

For information in Europe, call: 0032(0) 14575211

For emergencies in the US, call CHEMTREC: 800-424-9300

For emergencies in Europe, call: 0032(0) 14575299

### SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	:	56-45-1
Chemical Name	:	L-SERINE
%	:	99%
EINECS#	:	200-274-3
Haz Symbols	:	None Listed
Risk Phrases	:	None Listed

### SECTION 3 - HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Moisture sensitive. Light sensitive.

#### Potential Health Effects

**Eye:**

May cause eye irritation.

**Skin:**

May cause skin irritation. May be harmful if absorbed through the skin.

**Ingestion:**

May cause irritation of the digestive tract. May be harmful if swallowed.

**Inhalation:**

May cause respiratory tract irritation. May be harmful if inhaled.

**Chronic:**

Not available.

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## SECTION 4 - FIRST AID MEASURES

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### Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

### Skin:

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

### Ingestion:

Get medical aid. Wash mouth out with water.

### Inhalation:

Remove from exposure and move to fresh air immediately.

### Notes to Physician:

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## SECTION 5 - FIRE FIGHTING MEASURES

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### General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

### Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or chemical foam.

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## SECTION 6 - ACCIDENTAL RELEASE MEASURES

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General Information: Use proper personal protective equipment as indicated in Section 8.

### Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container.

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## SECTION 7 - HANDLING and STORAGE

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### Handling:

Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

### Storage:

Store in a cool, dry place. Do not store in direct sunlight. Store in a tightly closed container.

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## SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

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### Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

### Personal Protective Equipment

#### Eyes:

Wear chemical goggles.

**Skin:**

Wear appropriate protective gloves to prevent skin exposure.

**Clothing:**

Wear a chemical apron.

**Respirators:**

A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149.

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

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Physical State: Crystalline powder

Color: white

Odor: Not available.

pH: Not available.

Vapor Pressure: Negligible.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 222 deg C

Autoignition Temperature: Not available.

Flash Point: Not available.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature: >180 deg C

Solubility in water: SOLUBLE IN WATER: 250 G/L (20°C)

Specific Gravity/Density: 1.6000g/cm<sup>3</sup>

Molecular Formula: C<sub>3</sub>H<sub>7</sub>NO<sub>3</sub>

Molecular Weight: 105.09

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**SECTION 10 - STABILITY AND REACTIVITY**

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**Chemical Stability:**

Stable under normal temperatures and pressures.

**Conditions to Avoid:**

Incompatible materials, light, exposure to moist air or water.

**Incompatibilities with Other Materials:**

Strong oxidizing agents.

**Hazardous Decomposition Products:**

Nitrogen oxides, carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not occur.

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**SECTION 11 - TOXICOLOGICAL INFORMATION**

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**RTECS#:**

CAS# 56-45-1: VT8100000

**LD50/LC50:**

Not available.

**Carcinogenicity:**

L-SERINE -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

**Other:**

See actual entry in RTECS for complete information.

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## SECTION 12 - ECOLOGICAL INFORMATION

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### Ecotoxicity:

The product can be degraded microbiologically.

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## SECTION 13 - DISPOSAL CONSIDERATIONS

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Dispose of in a manner consistent with federal, state, and local regulations.

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## SECTION 14 - TRANSPORT INFORMATION

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### IATA

No information available.

### IMO

No information available.

### RID/ADR

No information available.

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## SECTION 15 - REGULATORY INFORMATION

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### European/International Regulations

#### European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

#### WGK (Water Danger/Protection)

CAS# 56-45-1: 0

#### United Kingdom Occupational Exposure Limits

#### United Kingdom Maximum Exposure Limits

#### Canada

CAS# 56-45-1 is listed on Canada's DSL List.

CAS# 56-45-1 is not listed on Canada's Ingredient Disclosure List.

#### Exposure Limits

#### US FEDERAL

##### TSCA

CAS# 56-45-1 is listed on the TSCA inventory.

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## SECTION 16 - ADDITIONAL INFORMATION

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MSDS Creation Date: 7/16/1996 Revision #0 Date: Original.

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