

## MATERIAL SAFETY DATA SHEET

# CONTACT : LEONID CHEMICALS

62/A-2 1st Stage, Yeshwanthpur Industrial Suburb Ashokpuram School Road Bangalore-560 022, Kamataka, INDIA Ph: +91-80-2337 8354, Fax: +91-80-2357 4827

L-SERINE, 99%

## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: L-SERINE, 99%

**Catalog Numbers:** 

**S080** 

Synonyms:

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

Company Identification: LEONID CHEMICALS

62/A-2 2nd Stage, Industrial Suburb Yeshwanthpur, Bangalore -22, INDIA

Ph- +91-80-23378354

## 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

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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## 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:

### **SECTION 5 - FIRE FIGHTING MEASURES**

### 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.

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

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.

## **SECTION 7 - HANDLING and STORAGE**

### Handling:

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

#### Storage:

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

### **SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

## **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.

### **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

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: 22

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/cm3

Molecular Formula: C3H7NO3 Molecular Weight: 105.09

## **SECTION 10 - STABILITY AND REACTIVITY**

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.

### **SECTION 11 - TOXICOLOGICAL INFORMATION**

RTECS#:

CAS# 56-45-1: VT8100000

LD50/LC50:

Not available.

Carcinogenicity:

L-SERINE -

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

Other:



# **SECTION 12 - ECOLOGICAL INFORMATION Ecotoxicity:** The product can be degreeded microbiologically. **SECTION 13 - DISPOSAL CONSIDERATIONS** Dispose of in a manner consistent with federal, state, and local regulations. **SECTION 14 - TRANSPORT INFORMATION** IATA No information available. IMO No information available. RID/ADR No information available. **SECTION 15 - REGULATORY INFORMATION** 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. **SECTION 16 - ADDITIONAL INFORMATION** MSDS Creation Date: 7/16/1996 Revision #0 Date: Original. The information above is believed to be accurate and represents the best



information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

