

# MATERIAL SAFETY DATA SHEET

# CONTACT : LEONID CHEMICALS

62/A-2 2nd Stage, Industrial Suburb Ashokpuram School Road, Yeshwanthpur Bangalore-560 022, INDIA

Ph: +91-80-2337 8354, Fax: +91-80-2357

L-Alanine, 99% ACROS00804

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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MSDS Name: L-Alanine, 99%

Catalog Numbers:

AC102830000, AC102830250, AC102831000

Synonyms:

L-Alpha-Alanine; (S)-Alanine; L-2-Aminopropanoic Acid.

Company Information: LEONID CHEMICALS

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Ashokpuram School Road

Bangalore-560 022, Karnataka, INDIA

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#### SECTION 2- COMPOSITION, INFORMATION ON INGREDIENTS

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CAS # : 56-41-7
Chemical Name : L-Alanine
% : >98.5%
EINECS# : 200-273-8
Hazard Symbols : None Listed.
Risk Phrases : None Listed.

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## **SECTION 3- HAZARDS IDENTIFICATION**

#### **EMERGENCY OVERVIEW**

Appearance: white. Caution! Light sensitive. Moisture sensitive. The toxicological properties of this material have not been fully investigated. May cause eye and skin irritation. May cause respiratory and digestive tract irritation. Target Organs: No data found.

Potential Health Effects

Eye:

Contact may cause transient eye irritation.

Skin:

May cause skin irritation. Low hazard for usual industrial handling.



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May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

#### Inhalation:

May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

## Chronic:

No information available.

# SECTION 4- FIRST AID MEASURES

SECTION 4- LINST AID MEASURE.

# Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.

#### Skin:

Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

## Ingestion:

Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

## Inhalation:

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician:

Treat symptomatically.

#### 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. Dusts at sufficient concentrations can form explosive mixtures with air. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.



Extinguishing	Media:

Use agent most appropriate to extinguish fire. In case of fire use water spray, dry chemical, carbon dioxide, or appropriate 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:

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

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#### SECTION 7 - HANDLING AND STORAGE

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# Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

# Storage:

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

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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. Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment

## Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard En166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

#### Clothing:

Wear appropriate protective clothing to prevent skin exposure.



## Respirators:

A respiratory protection program that meets OSHA's 29 CFR §1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

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## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Solid Appearance : White

Odor : None reported.

PH : No information available.

Vapor Pressure : Negligible.

Vapor Density : No information available. Evaporation Rate : No information available.

Viscosity : Negligible.

Boiling Point : No information available. Freezing/Melting Point : 314.50 - 316.50 deg C

Autoignition Temperature : Not applicable.

Flash Point : 314 deg C ( 597.20 deg F)

NFPA Rating : (est.) Health: 1; Flammability: 1; Reactivity:

0

Explosion Limits, Lower : No information available. Explosion Limits, Upper : No information available.

Decomposition Temperature : 314 deg C Solubility : 157.8 g/l (20 c)

Specific Gravity/Density : No information available.

Molecular Formula : CH3CH(NH2)CO2H

Molecular Weight : 89.09

## SECTION 10 - STABILITY AND REACTIVITY

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Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, dust generation, excess heat.

Incompatibilities with Other Materials:

Oxidizing agents.

**Hazardous Decomposition Products:** 

Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

Hazardous Polymerization:

Has not been reported.



SECTION 11 - TOXICOLOGICAL INFORMATION						
RTECS#:						
CAS# 56-41-7: Ay2990000						
LD50/LC50:						
No information available.						
Carcinogenicity:						
L-Alanine - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.						
Epidemiology: No information available.						
Teratogenicity:						
No information available.						
Reproductive Effects:						
No information available.						
Neurotoxicity:						
No information available.						
Mutagopioity						
Mutagenicity: No information available.						
The infermation dvalidate.						
Other Studies:						
See actual entry in RTECS for complete information.						
SECTION 12 - ECOLOGICAL INFORMATION						
No information available.						



# SECTION 15 - ADDITIONAL INFORMATION

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#### **US FEDERAL**

**TSCA** 

CAS# 56-41-7 is listed on the TSCA inventory.

## Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

#### **Chemical Test Rules**

None of the chemicals in this product are under a Chemical Test Rule.

#### Section 12b

None of the chemicals are listed under TSCA Section 12b.

# TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

## **SARA**

## Section 302 (RQ)

None of the chemicals in this material have an RQ.

## Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

#### Section 313

No chemicals are reportable under Section 313.

## Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

## Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

#### OSHA

None of the chemicals in this product are considered highly hazardous by OSHA.

#### STATE

L-Alanine is not present on state lists from CA, PA, MN, MA, FL, or NJ

## California No Significant Risk Level:

None of the chemicals in this product are listed.

# European/International Regulations

European Labeling in Accordance with EC Directives.



110-0-0	Symbols:
Hazarn	Symmole:

Information not available.

Risk Phrases:

Information not available.

# Safety Phrases:

S 24/25 Avoid contact with skin and eyes. S 28A After contact with skin, wash immediately with plenty of water. S 37 Wear suitable gloves. S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 56-41-7: 0

United Kingdom Occupational Exposure Limits

Canada

CAS# 56-41-7 is listed on Canada's DSL/NDSL List.

WHMIS: Information not available.

CAS# 56-41-7 is not listed on Canada's Ingredient Disclosure List.

**Exposure Limits** 

Information not available.

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## SECTION 16 - ADDITIONAL INFORMATION

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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.

