



## MATERIAL SAFETY DATA SHEET

CONTACT : **LEONID CHEMICALS**  
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Ph: +91-80-2337 8354, Fax: +91-80-2357

DL-ASPARTIC ACID - 99+%

### SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name:  
DL-ASPARTIC ACID, 99+%

Catalog Numbers:  
10503-0000, 10503-0050, 10503-2500

Synonyms:  
DL-Aminosuccinic acid. DL-2-Aminobutanedioic acid

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

### SECTION 2- COMPOSITION, INFORMATION ON INGREDIENTS

CAS #	:	617-45-8
Chemical Name	:	DL-ASPARTIC ACID
%	:	99+%
EINECS#	:	210-513-3
Hazard Symbols	:	None Listed.
Risk Phrases	:	None Listed.

### SECTION 3- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW  
No information available.

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:

No information 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. Get medical aid.

Skin:

Get medical aid. 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:

No information available.

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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. Avoid generating dusty conditions.

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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. Store in a tightly closed container.

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## SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

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### Engineering Controls:

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:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

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## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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Physical State	:	Solid
Color	:	White
Odor	:	Odorless
PH	:	No information available.
Vapor Pressure	:	No information available.
Viscosity	:	No information available.
Boiling Point	:	No information available.
Freezing/Melting Point	:	> 300 deg C
Autoignition Temperature	:	No information available.
Flash Point	:	No information available.
Explosion Limits, lower	:	No information available.
Explosion Limits, upper	:	No information available.
Decomposition Temperature	:	No information available.
Solubility in water	:	Soluble
Specific Gravity/Density	:	No information available.
Molecular Formula	:	C4H7NO4
Molecular Weight	:	133.10

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## SECTION 10 - STABILITY AND REACTIVITY

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Chemical Stability:  
No information available.

Conditions to Avoid:  
Incompatible materials.

Incompatibilities with Other Materials:  
Strong oxidizing agents.

Hazardous Decomposition Products:  
Nitrogen oxides, carbon monoxide, carbon dioxide.

Hazardous Polymerization:  
Has not been reported.

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## SECTION 11 - TOXICOLOGICAL INFORMATION

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RTECS#:  
CAS# 617-45-8: CI9097800

LD50/LC50:  
No information available.

Carcinogenicity:

DL-ASPARTIC ACID - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA. See actual entry in RTECS for complete information.

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SECTION 12 - ECOLOGICAL INFORMATION

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No information available.

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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:

No information available.

Risk Phrases:

No information available.

Safety Phrases:

No information available.

WGK (Water Danger/Protection)

CAS# 617-45-8: 0

United Kingdom Occupational Exposure Limits

No information available.

United Kingdom Maximum Exposure Limits

No information available.

Canada

CAS# 617-45-8 is listed on Canada's DSL List.

CAS# 617-45-8 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

No information available.

US FEDERAL

TSCA

CAS# 617-45-8 is listed on the TSCA inventory.

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#### SECTION 16 - ADDITIONAL INFORMATION

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