

SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: L-Methionine

PRODUCT NUMBER: M539

COMPANY INFO: PhytoTechnology Laboratories®

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EMERGENCY PHONE NUMBER 1-800-535-5053 - US Only (INFOTRAC): 1-352-323-3500 - International

RECOMMENDED USE: For Research Use Only

Products sold by PhytoTechnology Laboratories® are intended for research and laboratory use

RESTRICTIONS ON USE: only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or

pesticidal products, food additives, or as household chemicals.

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

GHS Classification:

Not a hazardous substance or mixture.

GHS Label elements, including hazard and precautionary statements:

Not a hazardous substance or mixture.

Hazards not otherwise classified (HNOC) or not covered by GHS: - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: (S)-2-Amino-4-(methylthio)butanoic Acid

CAS No: 63-68-3 Formula: C₅H₁₁NO₂S

Molecular Weight: 149.21 g/mol

EC No.: 200-562-9

Ingredient	CAS Number	Percent	Hazardous
L-Methionine	63-68-3	>99 %	No exposure limits established by OSHA or ACGIH

4. FIRST AID MEASURES

Route of Entry

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous

area.

tract

Symptoms

Ingestion May cause irritation if swallowed If swallowed, wash out mouth with water. Never give anything

by mouth to an unconscious person. Get medical attention.

Inhalation May cause irritation to respiratory Safely remove victim to fresh air. If not breathing, institute

cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. **Get medical attention.**

First Aid Procedures

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Eye Contact Direct contact may cause irritation. Flush

May cause redness, tearing, or

blurred vision.

Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. **Get medical attention if irritation**

persists.

Skin Contact Irritating. May cause reddening,

itching or inflammation.

Wash area thoroughly with soap and water. Remove and wash contaminated clothing. **Get medical attention if irritation**

persists.

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use

extinguishing media suitable for surrounding fire.

Special Protective Equipment and

Precaution for Firefighters:

In the event of a fire, wear full protective clothing and NIOSH approved selfcontained breathing apparatus. Evacuate the area and fight fire from a safe distance.

Hazardous Combustion Products: May emit toxic fumes under fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing dust, vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Method of Containment and Cleanup: Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and

remove. Place material in a dry container and cover. Remove from the area. Flush

spill area with water. Do not let product enter drains.

7. HANDLING AND STORAGE

Precaution for Safe Handling: Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid

incompatible substances. Provide adequate ventilation at places where dust is formed.

Wash thoroughly after use.

Conditions for Safe Storage: Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.

Product is hygroscopic.

Incompatibilities: Strong oxidizing agent

Recommended Storage Temperature: Room Temperature

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): None

Threshold Limit Values (TLVs): None

Engineering Controls: Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

Eye/Face Protection: Chemical safety glasses or goggles. Have eye-washing facilities readily available where

eye contact can occur.

Skin Protection: Protective gloves

Body Protection: Lab coat

Respiratory Protection: A NIOSH/MSHA approved air purifying respirator.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White to Off-White Powder

pH (0.10 g/L): Under Development (5.25 – 6.25 suspected range)

Solubility: Soluble in water Melting Range: 280 – 282°C

Vapor Density: No data available
Vapor Pressure: No data available
Specific Gravity: No data available
Odor: May have slight odor
Odor Threshold: No data available
Viscosity: No data available

Evaporation Rate: No data available

No data available

Initial Boiling Point and Boiling Range:

Relative Density:

No data available

Flammability (solid, gas): No data available

Partition coefficient:

n-octanol/water):

No data available

Auto-ignition Temperature: No data available
Decomposition Temperature: No data available
Flash Point (Closed Cup): No data available

Flammable Limits: Upper (%) – No data available Lower (%) – No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use

Possibility of Hazard Reactions: No data available

Conditions to Avoid: Dust generation, direct light Incompatibles Materials: Strong oxidizing agents

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides

11. TOXICOLOGICAL INFORMATION

Toxicity: LD₅₀ (Oral-Rat)(mg/Kg) 36000

 LD_{50} (IP-Rat)(mg/Kg) No data available LD_{50} (IP-Mouse)(mg/Kg) No data available

Carcinogenicity: NTP: No

IARC: No OSHA Reg: No

Reproductive Toxicity: No data available

Specific Target Organ Single Exposure:

Toxicity:

Repeated Exposure: No data available

Target Organs: No data available

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No data available

Routes of Entry: Ingestion, inhalation, skin and eye contact

NIOSH/RTECS NO: PD0457000

The toxicological properties of this product have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available
Persistence and Degradability: No data available
Bioaccumulative Potential: No data available
Mobility in Soil: No data available
Other Adverse Effects: No data available

13. DISPOSAL CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental

regulations.

14. TRANSPORT INFORMATION

Domestic (D.O.T.): Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
Reportable Quantity: N/A
UN/NA: N/A
Labels: N/A

International:

IMDG: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A

UN/NA: N/A Labels: N/A

IATA: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A UN/NA: N/A

Labels: N/A

15. REGULATORY INFORMATION

TSCA: Yes

SARA TITLE III:

Section 302 (EHS) Ingredients: No
Section 313 Ingredients: No
Section 304 (EHS/CERCLA) Ingredients: No

Section 311/312 Hazard: No SARA Hazards

Massachusetts Right to Know Components: This product is not on the Massachusetts Substance List (MSL).

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Pennsylvania Right to Know Components: This product is not listed on the Pennsylvania Code's Hazardous Substance

List (Chapter 323).

New Jersey Right to Know Components: This product is not listed amongst the New Jersey Right to Know Hazardous

Substance Fact Sheets

California Prop. 65 Components: This product is not known to the State of California to cause cancer or

reproductive toxicity.

16. OTHER INFORMATION

HMIS Rating:

NFPA Rating:

Health Hazard	Flammability	Physical Hazard	Personal Protection
0	0	0	В
Health Hazard	Fire Hazard	Instability	Special Hazard
0	0	0	

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