

I Identification

Product Name: **L-Methionine**

Catalog Number: **M018**

Synonyms: **L-ALPHA-AMINO-GAMMA-METHYLMERCAPTOBUTYRIC ACID, (S)-2-AMINO-4-(METHYLTHIO)BUTANOIC ACID, L(-)-AMINO-GAMMA-METHYLTHIOBUTYRIC ACID, 2-AMINO-4-METHYLTHIOBUTANOIC ACID, 2-AMINO-4-(METHYLTHIO)BUTYRIC ACID, 2-AMINO-4-METHYLTHIOBUTANOIC ACID, 2-AMINO-4-(METHYLTHIO)BUTYRIC ACID**

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Recommended Use:

Restrictions On Use:

II Hazard(s) Identification

Overview: **Health Hazard: 0 - None**

Fire Hazard: 1 - Slight

Reactivity: 0 - None

Flammability: **May be combustible at high temperature.** These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...).

In Case of Fire - Use DRY chemical powder, water spray, fog or foam. Do not use water jet.

Special firefighting procedures - Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Reactivity: **Stability - The product is stable.**

Conditions to Avoid - Light, moisture.

Polymerization - No.

Incompatibilities - Strong oxidizing agents, light.

Hazardous Decomposition/Combustion Products - Carbon Monoxide, Carbon Dioxide

Toxicity: **Routes of Entry - Ingestion, inhalation, or skin absorption.**

Toxicity to Animals - Acute oral toxicity (LD50): 36 g/kg [Rat].

Chronic Effects on Humans - No known effect based on information supplied.

NFPA Rating

Health: **0**

Flammability: **1**

Reactivity: **0**

Special:

Pictograms:

III Composition / Information on Ingredients

General Information: **Chemical Formula: C₅H₁₁NO₂S**

Component:

CAS#: **63-68-3**

% by Weight:

IV First-Aid Measures

General Information:

Route of Exposure

Oral: **Clean mouth with water and afterwards drink plenty of water**

Inhalation: **If inhaled, remove to fresh air. If not breathing give artificial respiration, seek immediate medical attention.**

Dermal: **Wash immediately with soap and plenty of water removing all contaminated clothing and shoes.**

Eye: **Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used.**

V Fire-Fighting Measures

General Information:

Flammable Properties

General:

Flash Point: **N/A**

Ignition Temperature: **No data available**

Suitable Extinguishing Media: **Use DRY chemical powder, water spray, fog or foam. Do not use water jet.**

Special Protective Equipment for fire fighters: **Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.**

Additional Information:

VI Accidental Release Measures

General Information: **Personal Precautions - Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation.**

Methods for Containment - Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up - Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.

VII Handling and Storage

Handling: **Handle in accordance with good industrial hygiene and safety practice**

Storage: **Store in a cool, dark, dry place. Store in a tightly closed container.**

VIII Exposure Controls / Personal Protection

General Information:

Engineering Measures: **Showers, Eyewash stations, Ventilation systems**

Personal Protective Equipment

General:

Eye Protection: **Splash goggles.**

Hand Protection: **Chemically compatible gloves.**

Respiratory Protection: **Dust respirator. Be sure to use an approved/certified respirator or equivalent.**

Skin and Body Protection: **Lab coat.**

Hygiene Measures: **Wash hands after use.**

IX Physical and Chemical Properties

General Information:

Appearance: **White to off-white**

pH: **5.6 - 6.1 (1% aq soln)**

Specific Gravity:

Melting Point: **270 - 276 °C**

Boiling Point: **Not available**

Flash Point: **N/A**

Flammability Range: **Not available**

Vapor Pressure: **Not available.**

X Stability and Reactivity

General Information: **The product is stable.**

Storage Stability

Temperature: **Room Temperature**

Light Sensitive: **True**

Incompatibles: **Avoid light and moisture.**

Hazardous Decomposition Products: **Carbon Monoxide, Carbon Dioxide**

XI Toxicological Information

General Information:
 Acute Toxicity: **Acute oral toxicity (LD50): 36 g/kg [Rat].**
 Chronic Toxicity: **No known effect based on information supplied**
 Local Effects:
 Target Organs: **None known.**
 Carcinogenicity: **Not available.**
 OSHA Permissible Exposure Limits:

XII Ecological Information

General Information: **Not available.**

XIII Disposal Considerations

General Information:
 Disposal of Product: **Observe all federal, state and local regulations.**
 Disposal of Packaging: **Observe all federal, state and local regulations.**

XIV Transport Information

Proper Shipping Name: **CHEMICALS, N.O.S. (NON-REGULATED)**
 UN#: **N/A**
 Class: **N/A**
 Packaging Group: **N/A**
 Hazard Label: **N/A**

XV Regulatory Information

General Information: **N/A**
 TSCA:
 SARA 313:

XVI Other Information

General Information: **All chemicals may pose unknown hazards and should be used with caution. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Caisson Laboratories, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.**

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