

I Identification

Product Name: **L-Valine**

Catalog Number: **V001**

Synonyms: **L-alpha-Aminoisovaleric acid**

Company: **Caisson Laboratories**

Address: **836 South 100 East, Smithfield, UT 84335**

Telephone: **435.755.7615**

Fax: **435.755.7617**

Emergency Contact: **CHEMTREC 800.424.9300 (703.527.3887)**

Recommended Use:

Restrictions On Use:

II Hazard(s) Identification

Overview: **Health Hazard: 1 - Slight**

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 Oxides, Nitrogen oxides (NO_x).

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

Toxicity to Animals - None known.

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

NFPA Rating

Health: **1**

Flammability: **1**

Reactivity: **0**

Special:

Pictograms:

III Composition / Information on Ingredients

General Information: **Chemical Formula: C₅H₁₁NO₂; Formula Weight: 117.15**

Component:

CAS#: **72-18-4**

% by Weight: **>/= 98.5%**

IV First-Aid Measures

General Information:

Route of Exposure

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

Inhalation: **Move to fresh air. If breathing becomes difficult, give oxygen.**

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

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

V Fire-Fighting Measures

General Information:

Flammable Properties

General:

Flash Point:

Ignition Temperature:

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: **Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation. Wear protective gloves/clothing. 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. Hygroscopic.**

Not sensitive Static Discharge.

Storage: **Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Hygroscopic.**

VIII Exposure Controls / Personal Protection

General Information:

Engineering Measures: **Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels low.**

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:

pH: **Not available.**

Specific Gravity:

Melting Point: **315 °C**

Boiling Point: **Not available**

Flash Point:

Flammability Range:

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
<p>General Information:</p> <p>Acute Toxicity:</p> <p>Chronic Toxicity:</p> <p>Local Effects:</p> <p>Target Organs:</p> <p>Carcinogenicity: Not available.</p> <p>OSHA Permissible Exposure Limits:</p>	
XII	Ecological Information
<p>General Information: Not available.</p>	
XIII	Disposal Considerations
<p>General Information:</p> <p>Disposal of Product: Observe all federal, state and local regulations.</p> <p>Disposal of Packaging: Observe all federal, state and local regulations.</p>	
XIV	Transport Information
<p>Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)</p> <p>UN#: N/A</p> <p>Class: N/A</p> <p>Packaging Group: N/A</p> <p>Hazard Label: N/A</p>	
XV	Regulatory Information
<p>General Information: N/A</p> <p>TSCA:</p> <p>SARA 313:</p>	
XVI	Other Information
<p>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.</p>	

Last Revision Date: 17 Aug, 2015