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Safety Data Sheet L-Valine, Powder

Revised: 12/01/2021
SDS Expiry Date: 11/30/2024

1) IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Chemical name	L-Valine
CAS #	72-18-4
EC Number	200-773-6
RTECS	YV9361000

1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Product uses	Food and Feed Additive, Flavoring Agent
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1.3. Supplier Information of the Safety Data Sheet

Company	SAM Nutrition 7760 France Avenue South, Suite 1330 Bloomington, MN 55435 United States of America	Telephone #	+1 (952) 974-9174
		Fax #	+1 (952) 974-8183
		Email	info@samhprp.com

Manufacturer	Anhui Huaheng Biotechnology Co., Ltd. No.32, Fengjing Road, Shuangfeng Industrial Park, Hefei, Anhui Province, P.R. China
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1.4. Emergency Contact Information

Emergency #	+1 (952) 974-9174
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2) HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Not a hazardous substance or mixture. Not classified under GHS.

2.2. Label Elements

None required. Not a hazardous substance or mixture.

2.3. Unclassified Hazards/Hazards Not Otherwise Classified

None.

3) COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Molecular formula	C ₅ H ₁₁ NO ₂	Molecular weight	117.15 g/mol
CAS Registry #	72-18-4	GHS-US classification	N/A
Concentration	100%	Synonyms	Valine / (S)-2-Amino-3-methylbutanoic acid

3.2. Mixtures

Not a mixture. Mono-constituent product.

4) FIRST-AID MEASURES

4.1. Description of First-Aid Measures

If inhaled	Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical
In case of skin contact	Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult with a doctor
In case of eye contact	Rinse with pure water for at least 15 minutes. Consult with a doctor
If swallowed	Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately

4.2. Important Symptoms and Effects, Both Acute and Delayed

No data available.

4.3. Indication of any Immediate Medical Attention and Special Treatment Needed

Ensure that adequate decontamination has been carried out. If patient is not breathing, start artificial respiration, preferably with a demand valve resuscitator, bag-valve-mask device, or pocket mask, as trained. Perform CPR if necessary. Immediately flush contaminated eyes with gently flowing water. Do not induce vomiting. If vomiting occurs, lean patient forward or place on the left side (head-down position, if possible) to maintain an open airway and prevent aspiration. Keep patient quiet and maintain normal body temperature. Obtain medical attention.

5) FIREFIGHTING MEASURES

5.1. Extinguishing Media

Use dry chemical, carbon dioxide or alcohol-resistant foam.

5.2. Special Hazards Arising from the Substance or Mixture

No data available.

5.3. Advice for Firefighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

5.4. Further information

None.

6) ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contact with skin and eye. Use personal protective equipment as indicated per this SDS. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2. Environmental Precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

6.3. Methods and Material for Containment and Cleaning Up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

6.4. Reference to Other Sections

For emergency contact information, see Section 1. For appropriate protective equipment and clothing, see Section 8. For disposal, refer to Section 13.

7) HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Handle in a well-ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

7.2. Conditions for Safe Storage

Store the container tightly closed in a dry, cool and well-ventilated place. Store away from foodstuff containers or incompatible materials.

8) EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

Occupational Exposure Limits: Latvia – 5 mg/m³ limit (8 hours).

8.2. Exposure Controls

Appropriate

Engineering Controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area

Eye/Face Protection	Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US)
Hand Protection	Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands before and after usage. The selected protective gloves must satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it
Skin and Body Protection	Wear impervious clothing. If there are any possible sources of fire ignition, it is recommended to wear fire/flame-resistant clothing
Respiratory Protection	If the exposure limits are exceeded, and/or irritation or other symptoms are experienced, use a full-face respirator
Personal protective equipment symbol(s)	



9) PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical state	Solid
Appearance	Crystalline powder
Color	White
Odor	Odorless
Odor threshold	No data available
pH	No data available
Initial Boiling point	234°C (453.2°F)/1mmHg(lit.)
Melting point	295~315°C (563~599°F)
Flash point	225°C (437°F)
Evaporation Rate	No data available
Flammability (solid, gas)	Non-flammable
Explosion limits	Not explosive
Explosive properties	Not applicable
Oxidizing properties	Not an oxidizer
Vapor pressure	< 0.1 hPa at 25 °C (77 °F)
Relative density	1.23 at 20 °C (68 °F)
Vapor Density	No data available
Specific gravity / density	No data available
Solubility	In water: 88.5 g/L. Temperature: 25°C (77°F). pH: Ca. 7
Log Pow	-2.26. Temperature: 20°C (68°F). Remarks: This value recommended by LOGKOW Database provided by Sangster Research Laboratories, Canada
Auto-ignition temperature	Does not ignite
Decomposition temperature	No data available
Viscosity	Not viscous

9.2. Other Information

None.

10) STABILITY AND REACTIVITY

10.1. Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2. Chemical Stability

The product is stable under normal handling and storage conditions described in Section 7.

10.3. Conditions to Avoid

Avoid incompatible products.

10.4. Incompatible Materials

Strong oxidizing agents.

10.5. Hazardous Decomposition Products

Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂).

10.6. Hazardous Reactions

None expected under normal processing and storage conditions.

10.7. Hazardous Polymerization

Will not occur.

11) TOXICOLOGICAL INFORMATION

11.1. Acute Toxicity

Oral: LD50 - rat (female) - > 2 000 mg/kg bw.

Inhalation: LC50 - rat (male/female) - > 5 260 mg/m³ air (analytical).

Dermal: no data available.

11.2. Skin Corrosion/Irritation

Not corrosive for skin. Not an irritant.

11.3. Serious Eye Damage/Irritation

Not expected produce serious eye damage or irritation.

11.4. Respiratory or Skin Sensitization

No data available.

11.5. Germ Cell Mutagenicity

No direct mutagenic activity observed for this product.

11.6. Carcinogenicity

CAS 72-18-4: This product does not contain any substances that are considered by IARC, NTP, OSHA, EU or ACGIH to be "probable" or "suspected" human carcinogens.

11.7. Reproductive Toxicity/Teratogenicity

No information available.

11.8. Single Target Organ Toxicity – Single Exposure

Not applicable.

11.9. Single Target Organ Toxicity – Repeated Exposure

Not applicable.

11.10. Aspiration Hazard

Not applicable.

11.11. Additional Information

None.

12) ECOLOGICAL INFORMATION

- 12.1. Ecotoxicity
Toxicity to fish: LC50 - Danio rerio (previous name: Brachydanio rerio) - > 10 g/L - 96 h.
Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna - > 10 g/L - 24 h.
Toxicity to algae: EC50 - ca. 2 651 mg/L.
Toxicity to microorganisms: EC10 - Pseudomonas putida - > 9.9 g/kg - 16 h.
Remarks: Expressed by optical density (OD).
- 12.2. Persistence and Degradability
Soluble in water Persistence is unlikely based on information available.
- 12.3. Bio-accumulative Potential
The potential for bioaccumulation is considered to be minimal.
- 12.4. Results of PBT and vPvB assessment
Not applicable.
- 12.5. Other Adverse Effects
None observed.
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13) DISPOSAL CONSIDERATIONS

- 13.1. Waste treatment methods
The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems. Waste must be always disposed of in accordance with federal, state and local environmental control regulations.
Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.
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14) TRANSPORT INFORMATION

- 14.1. Department of Transportation
Not regulated – not considered as ‘dangerous goods’.
- 14.2. Transportation by Sea
Not regulated.
- 14.3. Air Transportation
Not regulated.
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15) REGULATORY INFORMATION

- 15.1. Safety, Health and Environmental Regulations/ Legislation Specific for the Substance or Mixture

TSCA Inventory Section 8 (b)

Listed: L-Valine.

SARA 313:

Not applicable

SARA 311/312 Hazard Categories:

No SARA Hazards

Section 302:

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

California Prop. 65 Components:

This product does not contain any Proposition 65 chemicals

US State Right-to-Know Regulations:

Not applicable

EC/EU Regulations

Listed in EC Inventory, EINECS 200-773-6.

16) OTHER INFORMATION

16.1. Hazardous Materials Information System (USA)

Hazardous Material Information System (HMIS):	Health	1
	Flammability	1
	Physical Hazard	0

16.2. National Fire Protection Association Rating (USA)



16.3. Further Information

The information conveyed in this Safety Data Sheet is only a representation of what SAM HPRP Chemicals, Inc. and doing business as SAM Nutrition has found to be accurate based on the current information that is available in regards to this compound. SAM Nutrition makes no warranty, expressed or implied, with respect to such information, and therefore assumes no liability resulting from product usage. It is strongly recommended that users of this product perform their own investigations to determine the accuracy and suitability of the information for their specific purposes. In no way will SAM Nutrition assume liability for any claims, losses, damages to any third party, any lost profits or any special, indirect, incidental, consequential or exemplary damages that may arise, even if SAM Nutrition has been advised of the possibility of such damages.