

1. Company and Chemical Product Identification

Manufactured by:	AJINOMOTO DO BRASIL IND. E COM. DE ALIMENTOS LTDA Rod. Dr. Plácido Rocha, Km 39 16880-000 - Valparaíso - SP - Brazil Factory Tel.: 55 18 3401 9500 Commercial Department Tel.: 55 11 5080 6707
Product name:	L-Valine Feed Grade

2. Hazards Identification

The product does not pose particular risk to health. GHS classification of the substance:
Physical hazards, health hazards, environmental hazards: no applicable

3. Product Information

Chemical name:	L-Val (L-Valine)
Chemical formula:	C ₅ H ₁₁ NO ₂
Chemical family:	Organic – amino acids
CAS Number:	72-18-4
EINECS Number:	200-773-6

4. First-Aid Measures

Inhalation:	In case of breathing trouble, immediately relocated to a fresh air environment. Rinses mouth with water. If breathing is difficult, give oxygen and seek medical attention.
Eye contact:	Flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating eyelids with fingers. If you wear contact lenses, remove the lenses and continue washing. If irritation persists seek medical care.
Skin contact:	In case of exposure, wash with soap and copious amounts of water. If irritation persists, seek medical attention
Ingestion:	Rinse mouth with water. If any trouble appears, seek medical attention

5. Fire-fighting Measures

Elimination means:	Apply water, carbon dioxide, dry powder / chemical scum
Protection measures:	Wear appropriate garments and respiratory protection
Fire and explosion hazards:	Avoid ignition sources

6. Accidental Release Measures

Use personal protection (see item 8). Collect material for a recipient and dispose of according to local regulations. Prevent the shedding into watercourses. Avoid dust generation; ventilate area after material removal and washing with water.

7. Storage and Handling (in normal conditions)

Handling:	Follow good manufacturing practice and personal hygiene. Standard precautions for powdered products or products generating dust: Avoid dust dispersion during grinding of blending operations, Provide mechanical exhaust or ventilation, Clean and eliminate dust from equipment regularly, Use anti-static equipment, Avoid heat sources and sparks.
Storage:	in its original bag in dry conditions. Keep away from combustion sources.

8. Exposure Controls/Personal Protection (in normal conditions)

Respiratory protection:	It is recommended to wear a (paper) mask covering nose and mouth.
Hands:	It is recommended to wear gloves, especially in case of extended contact.
Eyes:	It is recommended to wear safety goggles.
Skin:	It is recommended to wear protective clothes covering skin. Discard or wash protective clothes after exposition to dust of the product.

9. Physical and Chemical Properties

Appearance:	White to pale yellow crystalline powder
pH (20°C):	4.5 to 6.5 (0,5g in 20ml of H2O)
Bulk density:	0.4 a 0.6 kg/L
Heat decomposition:	315° C
Solubility:	Water at 20° C: 5.75g/100g

10. Stability and Reactivity

Stability:	Stable if stored in dry conditions in sealed or closed containers
Conditions to avoid:	Avoid electric sparks and inflammation sources during the handing of the product
Hazardous decomposition products:	Combustion will result in the release of carbon dioxide, carbon monoxide and nitrogen oxide

11. Toxicological Information

Acute oral toxicity:	not harmful when ingested
Acute inhalation toxicity:	not harmful when inhaled
Eyes and skin irritation / corrosion:	not irritating to the skin and to the eyes
Sensitization	not a skin sensitizer

12. Ecological Information

Degradability:	highly biodegradable: amino acid, contained in protein and normal nutrient for living creatures – BOD = 0.879 g/g
Toxicity:	not toxic for wild animals and plants

13. Disposal Consideration

The product may be disposed as a non-hazardous material, according to applicable national, state, and local legislation. Follow local environmental control regulations.

14. Transport Information

This product is transported packaged. Not subjected to legislation on special transport of hazardous substances or preparations.

15. Regulatory Information

Not specific.

The information available in this safety sheet does not replace the user's own risk assessment in the workplace, according to national, state, and local health and safety legislation.

16. Others Information

This Safety Sheet complements the product Technical Sheet and does not replace it.

The data are based on our knowledge on the product to date and are intended for guidance purposes; however, they do not represent any guarantee of the product properties, as its conditions of use are beyond our control. The sheet does not dispense the users with knowing and applying the set of texts that regulate their activity. We recommend the user to make the due assessments.