

AJINOMOTO ANIMAL NUTRITION GROUP



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SAFETY DATA SHEET L-Valine [Feed Grade (96.5%)]

A MSDS is not required for the concerned product in accordance with the Regulation (EC) n° 1907/2006 and these codicils. The present information sheet was voluntarily created.

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1. Product identifier

Trade Name:

L-Valine Feed Grade

1.2. Relevant identified uses of the product

Identified uses:

This product shall exclusively be used in animal nutrition. It shall not be used for any food application

1.3. Identification of the Company

AJINOMOTO ANIMAL NUTRITION EUROPE
153, rue de Courcelles
75817 PARIS CEDEX 17 – FRANCE
+33 1 44 40 12 12
+33 1 44 40 12 13
Infos_FDS@eli.ajinomoto.com

Distributing Company:	Ajinomoto Animal Nutrition North America, Inc.
	1116 Hwy 137
	Eddyville, Iowa 52553
	Phone: 641- 969-4551 – Eddyville IA
	773-380-7000 – Chicago, IL.

1.4. Emergency telephone number+33 3 22 54 70 00

2. HAZARDS IDENTIFICATION

2.1. Classification of the mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP] This product is not classified according to Regulation (EC) No 1272/2008. Classification according t Directive 67/548/EEC This product is not classified according to Directive 67/548/EEC For animal feed only – not for human consumption

SMS form 061 Revision Date : June 12, 2019

1/13/2020



AJINOMOTO ANIMAL NUTRITION NORTH AMERICA, INC.

8430 W. Bryn Mawr Avenue Suite 650 Chicago, IL 60631-3421 TEL: 1-773-380-7000 FAX: 1-773-380-3016

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2.2. Label Elements

Labeling according to regulation (EC) No 1272/2008 [EU-GHS/CLP]

Pictogram (s):	-
Signal Word:	-
Hazard Statement:	-
Precautionary Statement Prevention	-
Precautionary Statement Response:	-
Precautionary Statement Storage:	-
Precautionary Statement Disposal:	-

Labeling according to Directive 67/548/EEC

Symbol (s):	-
Risk phrase (s):	-
Safety advice:	-

2.3. Other Hazards: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components		Classificati	ion	Concentration
L-Valine				
α-Aminoisovale	eric acid			
(S)-2-Amino-3-	methylbutanoic acid			
L-Val, C5H11N	02			
No CAS:	72-18-4			>96.5% (as is) &
No EINECS:	200-773-6	-	-	> 98% (dry
No Index:	-	-	-	matter basis)

4. FIRST AID MEASURES

4.1. Description of first aid measures

General advices

No data available

If inhaled

In case of breathing trouble, immediately relocate to a fresh air environment. Rinse mouth with water. If not breathing, give artificial respiration. If breathing becomes difficult, give oxygen and seek medical attention.

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In case of skin contact

In case of exposure, wash with soap and copious amounts of water. If irritation persists, seek medical attention.

In case of eye contact

Flush eyes with copious amounts of water for at least 15 minutes. Ensure adequate flushing by
separating eyelids with fingers. If contact lenses are worn, remove lenses and continue rinsing. SeekPage | 3
medical attention.

If swallowed

Rinse mouth with water. If any trouble appears, seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed: No data available

4.3. Indication of any immediate medical attention and special treatment needed: No data available

5. FIREFIGHTING MEASURES

- 5.1. Extinguishing media: Water spray, carbon dioxide, dry chemical powder/foam.
- 5.2. Special hazards arising from substance or mixture: No data available
- 5.3. Advice for firefighters: Wear protective clothing and breathing mast to protect from fumes
- 5.4. Further information: No data available

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures: Wear a mask. (See paragraph 8).

6.2. Environmental precautions: In case of release in large quantities, avoid releasing in sewers and water courses.

6.3. Methods and materials for containment and cleaning

Prevent spills from entering sewers and water courses.

Avoid dust generation and ventilate the area. Collect the product and place it in bags or containers for later disposal and elimination as waste, according to local legislation. After material has been removed, rinse the spill site with water.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

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Follow good manufacturing practice and personal hygiene.

Standard precautions for powdered products or products generating dust:

- Avoid dust dispersion during grinding or blending operations
- Provide mechanical exhaust or ventilation
- Clean and eliminate dust from equipment regularly
- Use anti-static equipment
- Avoid heat sources and sparks.

7.2. Conditions for safe storage, including any incompatibilities

Storage in the bags in which the product has been delivered. Keep in dry conditions. Keep away from electric sparks and heat sources.

7.3. Specific end uses: No data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

Components with workplace control parameters

Does not contain any substance subject to an exposure limit value.

8.2. Exposure controls

Engineering controls: No data available

Personal protective equipment Eye/face protection Body protection	Wear safety goggles in case of direct contact Wear protective clothes covering skin. Discard
or	wash protective clothes after exposure to dust of the product.
Skin protection contact	Wear gloves, especially in case of extended
Respiratory protection	Wear a (paper) mask covering nose and mouth.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance

White powder

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Odor Odor Threshold pH	No data available No data available 5 to 6 (5% solution)
Melting point / freezing point	315°C (closed capillary), then sublimes
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper / lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	0.5 to 0.6
Water solubility	At 0°C: 83.4 g/L
	At 25°C: 88.5 g/L
	At 50°C: 96.2 g/L
	At 65°C: 102.4 g/L
Partition coefficient: n-octanol / water	Log Pow = -2.30
Auto ignition	Between 10mJ and 30mJ
Decomposition temperature	315°C
Self-ignition temperature	>400°C (layer)
Viscosity	No data available
Explosive properties	Explosion maximal overpressure: 5.7 bar
	Maximum explosion pressure rise: 507 bar.s ⁻¹
	Kst: 138 bar.m/s ⁻¹
	The product is classified in ST1 class
Oxidizing properties	No data available

9.2. Other safety information: No data available

10. STABILITY AND REACTIVITY

- 10.1. Reactivity: Exothermic reaction between 340°C and 360°C
- 10.2. Chemical stability: Stable for 2 years if stored in recommended conditions.
- 10.3. Possibility of hazardous reactions: No data available
- 10.4. Conditions to avoid: Avoid electrostatic sparks and ignition sources.
- 10.5. Incompatible materials: No data available on incompatible materials.

10.6. Hazardous decomposition products: When heated to decomposition, carbon and nitrous oxides will be emitted.

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11. TOXICOLOGICAL INFORMATION

11.1. Acute toxicity

Acute oral toxicity: Not toxic when ingested: acute oral LD50 > 2000mg/kg in rat. Acute inhalation toxicity: Not toxic when inhaled: LC50 \ge 5.26 g/m3 in rat.

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11.2. Skin corrosion / irritation

Not irritating to (human) skin (according to EC standards, OJEC, L 110 A, Vol 36, 4 May 1993)

11.3. Serious eye damage / eye irritation

Not irritation to (human) eyes (according to EC standards, OJEC, L 110 A, Vol 36, 4 May 1993).

11.4. Respiratory or skin sensitization: Not sensitizing for the skin.

11.5. Germ cell mutagenicity

Not mutagenic (Bacterial reverse mutation test, Gene nutation test at the TK-locus of L5178Y cells, Chromosomal aberration test in cultured Chinese hamster Ovary (CHO) cells).

11.6. Carcinogenicity: No data available

11.7. Reproductive toxicity

Based on study report and to the best knowledge of AANE, no effect on fetal development.

- 11.8. Specific target organ toxicity single exposure: No data available
- 11.9. Specific target organ toxicity repeated exposure: No data available
- 11.10. Aspiration hazard: No data available
- **11.11. Signs and symptoms of exposure:** No data available

11.12. Additional information

NOAEL (No adverse effect level, oral administration) is conservatively: 628 mg/kg bw (90 day subchronic toxicity in rat).

12. ECOLOGICAL INFORMATION

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- **12.1.** Toxicity: Not toxic for animal and plant.
- 12.2. Persistence and degradability

Biodegradable

- 12.3. Bioaccumulative potential: None.
- **12.4.** Mobility in soil: No data available.
- 12.5. Results of PBT and vPvB assessment: No data available

12.6. Other adverse effects

When a large quantity of the product is released in a river or waste treatment plant, the ecosystem or the functioning of the plant may be disturbed due to increased demand in oxygen required to degrade the product (increase of the biological oxygen demand – BOD = 0.849 g/g – of water)

13. Disposal Consideration

Waste treatment methods: Treat wastes in accordance with the local // national legislation.

14. Transport Information

14.1. UN Number ADR / RID: -	IMDG: -	IATA: -
14.2. UN proper shipping name ADR / RID: -	IMDG: -	IATA: -
14.3. Transport hazard class (es) ADR / RID: -	IMDG: -	IATA: -
14.4. Packing group ADR / RID: -	IMDG: -	IATA: -
14.5. Environmental hazards ADR / RID: No	IMDG Marine pollutant: No	IATA: No

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14.6. Special precautions for user: No data available

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture Page | 8

This product is within the scope of Regulation (EC) No 1831 / 2003 of 22 / 09 / 2003 on additives for use in animal nutrition (OJ EU n° L 268 of 18 / 10 / 2003).

15.2. Chemical Safety Assessment: No data available

16. OTHER INFORMATION

References

Manufacture: AANE MSDS dated 8/11/2018

The Merck Index 13th edition. Merck and Co., 2001

Partition coefficient (n-octanol / water):	TNO Quality of Life, Zeist, The Netherlands. Report to Ajinomoto Eurolysine No V8947 / 09 (15 July 2010).	
Particle size distribution & Dusting potential:	TNO Nutrition and Food Research, Zeist, The Netherlands, BCV_05_0292 / SMC (2005).	
Flammability, explosion characteristics, auto-ignition, etc.:	INERIS. Study report ot Ajinomoto Eurolysine No 76597, 12 July 2006.	
Acute oral toxicity:	TNO Nutrition and Food Research, Zeist, The Netherlands. Report to Ajinomoto Eurolysine No V6210 / 04, 2005	
Acute 4-hour toxicity study in rat:	TNO Nutrition and Food Research, Zeist, The Netherlands. Report to Ajinomoto Eurolysine No V6201 / 08, 4 Oct 2005.	
Skin and eye	TNO Nutrition and Food Research, Zeist.	
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Irritation / corrosion	The Netherlands. Reports to Ajinomoto Eurolysine No V6211 / 03 (June 2005) and No V6215 / 14 (June 2005).
Skin sensitization:	TNO Nutrition and Food Research, Zeist,Page 9The Netherlands.Report to Ajinomoto EurolysineNo V6496, 27 Sept. 2005
Mutagenicity:	TNO Nutrition and Food Research, Zeist, The Netherlands. Reports to Ajinomoto Eurolysine V6205 / 06 (2005), No V6202 / 02 (2005) and No V6203 / 04 (2005).
Sub-chronic toxicity:	TNO Nutrition and Food Research, Zeist, The Netherlands. Report to Ajinomoto Eurolysine No V6357, (2006) Tsubuku and al. 2004 <i>International Journal of</i> <i>Toxicology</i> , vol. 23, pp. 119-126
Prenatal developmental toxicity:	TNO Nutrition and Food research, Zeist, The Netherlands. Report ot Ajinomoto Eurolysine No V6306 (2005).

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