



CJ (SHENYANG) BIOTECH CO., LTD.

Head Office:

#38 YUNONG ROAD SHENBEI NEW DISTRICT

SHENYANG, LIAONING, CHINA

Tel : (024) 31410001

Fax : (024) 31410108

Shenyang, Jan 8, 2018

SAFETY DATA SHEET

L-VALINE

1. Substance / preparation and company name

Product : L-Valine Feed Grade

Manufacturer : CJ (SHENYANG) BIOTECH CO., LTD.

#38 Yunong Road, Shenbei New District, Shenyang, Liaoning,
CHINA.

Emergency Phone : (024) 31410001

2. Composition / information on ingredients

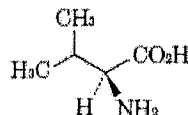
Composition : L-Valine 96.5% min. (on an as is basis)
98.0 % min. (on a dry matter basis)

Chemical Family : Amino Acid (Essential)

Formula : $C_5H_{11}NO_2$

Molecular Weight : 117.15

Structure Formula :



3. Possible hazard

No extraordinary risks for humans and environment

4. First aid measures

General recommendation : Avoid contact

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<i>After inhalation</i>	: Remove individual to fresh air
<i>After skin contact</i>	: Wash area thoroughly with soap and water
<i>After eye contact</i>	: Wash eye with water for 15 minutes
<i>After swallowing</i>	: Drink large amounts of water

5. Fire fighting measures

<i>Flash point</i>	: 284°C
<i>Auto ignition Temperature</i>	: N/A
<i>Flammable limit in air</i>	: None Flammable
<i>Extinguishing Media</i>	: Water
<i>Special Fire Fighting Procedure</i>	: Should wear protective clothing and respiratory protection
<i>Unusual Fire and Explosion Hazard</i>	: Not a fire hazard

6. Accidental release measures

<i>Method of cleaning up</i>	: Wash area with water. Avoid high pressure rinsing
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7. Handling & storage

<i>Handling</i>	: Recommended to wear glove and face mask if excessive handling is necessary
<i>Storage</i>	: Recommended to be stored in clean and dry condition, under ambient temperature, sheltered from sunlight and avoid from harmful substances
<i>Work place</i>	: Keep clean.

8. Exposure control and personal protection

<i>Precautionary measures</i>	: Give adequate ventilation to the premises where the product is stored and/or handled.
<i>Respiratory protection</i>	: Not needed for normal use.

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<i>Protection of hands</i>	: Not needed for normal use.
<i>Eye protection</i>	: Not needed for normal use.
<i>Protection for skin</i>	: No special precaution must be adopted for normal use.

9. Physical and chemical properties

<i>Bulk Density</i>	: 0.400 ~ 0.600 g/ml
<i>Appearance and Odor</i>	: Whitish to Yellowish powder
<i>Solubility in Water</i>	: 5.3g ~ 5.7g/100g water (20°C)
<i>Percent Volatile</i>	: N/A
<i>Evaporation Rate</i>	: N/A
<i>Melting point</i>	: 298°C

10. Stability and reactivity

<i>Stability</i>	: Stable if stored in dry conditions in sealed or closed containers
<i>Conditions to avoid</i>	: Heating to decomposition, Light
<i>Substances to avoid</i>	: Strong oxidizers
<i>Hazardous reaction</i>	: None

11. Toxicology

<i>Eyes</i>	: May cause slight eye irritation
<i>Skin</i>	: May cause slight skin irritation

12. Ecology

<i>Degradability</i>	: High bio degradable
<i>Bio accumulation</i>	: No
<i>Toxicology</i>	: Not toxic for wild animals and plants

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13. Eliminations and considerations

Recover if possible. In so doing, comply with the local and national regulations currently in force

14. Transports information

Proper delivering name : L - Valine
Proper delivering condition : Stored in closed and sealed container
Means of transportation : Sea : By ship
Air : By aeroplane
Packaging : 15 kg net with 3 ply Kraft paper bag and 1 ply PE

15. Regulatory information

Not hazardous according to Directive 67/548/EEC.

88/379/EEC (Classification and Labelling):

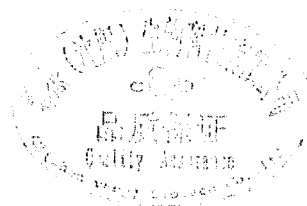
The preparation should not be considered as dangerous accordingly to dir. 88/379/EEC.

Where applicable, refer to the following regulatory provisions:

Directive 82/501/EEC (Activities linked to risks of serious accidents) and subsequent amendments.

16. Other information

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended. This SDS cancels and replaces any preceding release.



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L-Valine Feed Grade

Description

BestAmino™ L-Valine is a high quality feed grade amino acid produced by microbial fermentation. Its availability depends on the region. Please contact our local representative for more information.

Appearance

Whitish crystalline powder

Chemical properties

Chemical formula	$C_5H_{11}NO_2$
Molecular weight	117.15
Isomer	L

Chemical Specification

L- Valine, % ¹⁾	Min. 96.5	(on an as is basis)
	Min. 98.0	(on a dry matter basis)
Moisture, %	Max. 1.5	105°C for 4 hours

1) HPLC analysis AOAC 999.13

Nutritional Values ²⁾

Crude Protein ³⁾ , %	72.1
Digestibility, %	100
Energy	[MJ]/kg]
ME poultry	22.00
DE pigs	24.40
ME pigs	22.90
NE pigs	17.70

2) Average analytical values

3) Nitrogen Analysis acc. to DUMAS (CP=N*6.25)

Packaging

15 kg 3 ply Kraft paper bag with 1 ply P.E. inner
800 kg P.P. Woven bag with P.E. lamination

Storage

Store in dry condition and fresh place in a sealed or closed container that is to be protected from water, sunlight and heat. Avoid direct contact with floor and any source of combustion.

Stability

Product is stable for at least 2 years if stored under recommended conditions.

Kraft paper bag unopened: product is stable for at least 2 years if stored under recommended conditions.

PP Woven bag unopened: product is stable for at least 2 years if stored under recommended conditions.

The batch number and the production date are printed on the bags.

Regulatory Status

L-Valine comes under Regulation (EC) 1831/2003 referring to additives intended for animal feed (Official Journal of the EU n° L120 of 15/5/2009, category "nutritional additives", additives group: "amino acids, their salts and analogues" and can be used for all animal species.

Please refer to the Material Safety Data Sheet of the product for safety information

Additional information

Does not constitute any commercial guarantee

General specifications

pH	5.0-6.0	Aqueous solution at 5%
Bulk density, g/ml	0.4-0.6	

BUREAU VERITAS
Certification



CJ (SHENYANG) BIOTECH CO., LTD

Has implemented and maintains a Feed Safety Management System including Good Manufacturing Practice (GMP) in compliance with FAMI-QS Code (version 5.1, February 2014)

ON THE FOLLOWING SITE:

No 38 Yunong Road, Shenbei New Distruct, Shenyang City, Liaoning, CHINA

For

PRODUCTION

A1. FEED ADDITIVES: NUTRITIONAL ADDITIVES
(amino acids, their salts and analogues)

*This certificate is valid until: **July 26th, 2018***
For the validity of this certificate, please check: www.fami-qs.org

Issuing Date: **Beijing, July 23rd, 2015**
Certificate Number: **FAMI-QS-15007GZ**
FAMI-QS Registration Number: **FAM-0658**

Bureau Veritas Certification SAS Manager



Fanny Zou

FAMI[®]QS

This certificate is based on audit done by BUREAU VERITAS CERTIFICATION CHINA CO., LTD (CNCA-RF-2003-23)

ISSUING OFFICE ADDRESS: Bureau Veritas Certification China: F22, Tower B, Beijing Global Trade Center, 38 North Third Ring Road East, Dongcheng District, Beijing China. 10001.
MANAGING OFFICE ADDRESS: Bureau Veritas Certification France: Immeuble le Guillaumet - 60 avenue du Général de Gaulle - 92 046 PARIS LA DEFENSE Cedex.



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Head Office :
#38 Yunong Road Shenbei
Economic&Development Zone
100164 Shenyang Liaoning China
Tel:(024)3141-0001
Fax:(024)3141-0109

Pork & Ractopamine Free Declaration

Shenyang, Mar 16, 2016

To Whom It May Concern:

We, CJ(SHENYANG)BIOTECH CO.,LTD, as the manufacturer of

1. L-Threonine
2. L- valine

hereby declare the following related to pork origin issue.

Our products are derived from vegetable sources, do not contain any animal meat, flesh and is not derived from animal raw material. Specifically pork meat or any material derived from pork origin such as peptone, serum, gelatin or enzyme is not used during manufacturing process of the products.

In case of ractopamine, ractopamine is a feed additive to promote leanness in animals raised for their meat. Pharmacologically, it is a beta-adrenergic agonist and it is commonly used as the active ingredient in products for swine and cattle. Due to we do not use any animal material origin, therefore it means that we do not also use ractopamine in manufacturing process of the products

In conclusion, to the best of our knowledge, our products are free from the pork and ractopamine.

CJ(SHENYANG)BIOTECH CO.,LTD

DEUG HOI KIM

Quality Assurance Manager