



CJ (SHEN YANG) BIOTECH CO., LTD.

Head Office :

#38 YUNONG ROAD SHENBEI NEW DISTRICT

SHENYANG, LIAONING, CHINA

Tel. : (024) 31410001

Fax. : (024) 31410108

SAFETY DATA SHEET

L-THREONINE

1. Substance / preparation and company name

Product : L-Threonine Feed Grade

Manufacturer : CJ (SHEN YANG) BIOTECH CO., LTD.

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

Emergency phone : +86-24-88781798

2. Composition / information on ingredients

Composition : L-Threonine 98.5%

Chemical family : Amino Acid (Essential)

Formula : $C_4H_9NO_3$

Molecular Weight : 119.12

Structure Formula : $CH_3 - CH(OH)CH - (NH_2)COOH$

3. Possible hazard

No extraordinary risks for humans and environment

4. First aid measures

General recommendation : Avoid contact

After inhalation : Remove individual to fresh air

After skin contact : Wash area thoroughly with soap and water

After eye contact : Wash eye with water for 15 minutes

After swallowing : Drink large amounts of water

5. Fire fighting measures

Flash point : None

Auto ignition Temperature : N/A

Flammable limit in air : None Flammable



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Extinguishing Media : Water
Special Fire Fighting Procedure : Should wear protective clothing and respiratory protection.
Unusual Fire and Explosion Hazard : Not a fire hazard

6. Accidental release measures

Method of cleaning up : Wash area with water. Avoid high pressure rinsing

7. Handling & storage

Handling : Recommended to wear glove and face mask if excessive handling in necessary

Storage : Recommended to be stored in clean and dry condition, under ambient temperature, sheltered from sunlight and avoid from harmful substance

Work place : Keep clean

8. Exposure control and personal protection

Precautionary measures : Give adequate ventilation to the premises where the product is stored and/or handled.

Respiratory protection : Not needed for normal use

Protection of hands : Not needed for normal use

Eye protection : Not needed for normal use

Protection for skin : No special precaution must be adopted for normal use

9. Physical and chemical properties

Bulk Density : 0.700 ~ 0.900 g/ml

Appearance and odor : White or pale brownish powder, Odorless, Having characteristic taste

Solubility in Water : 9.76 g/100 g water (20 °C)

Percent Volatile : N/A

Evaporation Rate : N/A

Melting point : 256 °C



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10. Stability and reactivity

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

11. Toxicology

<i>Eyes</i>	: Very slightly irritant product
<i>Skin</i>	: Not a skin sensitizer

12. Ecology

<i>Degradability</i>	: High bio degradable
<i>Bio accumulation</i>	: No
<i>Toxicology</i>	: Not toxic for wild animals and plants LD 50 : 3g/kg (IP in Rat)

13. Eliminations and considerations

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

14. Transports information

<i>Proper delivering name</i>	: L-Threonine
<i>Proper delivering condition</i>	: Stored in closed and sealed container
<i>Means of transportation</i>	: Sea : By ship Air : By aeroplane
<i>Packaging</i>	: 25kg with 3 ply Kraft Paper bag and 1 ply P.E inner 800kg P.P Woven Bag with PE Laminated

15. Regulatory information

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:



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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.