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Revised :2

MATERIAL SAFETY DATA SHEET
L-THREONINE

1. Substance / preparation and company name

Product : L – Threonine 98.5 % Feed Grade
Manufacturer : PT. Cheil Jedang Shenyang
#38 YuNong Road ShenBei New District ShenYang LiaoNing China
110164
Emergency Phone : +86-024-31410001

2. Composition / information on ingredients

Composition : L – Threonine 98.5 %
Chemical Family : Amino Acid (Essential)
Formula : C₄H₉NO₃
Molecular Weight : 119.12
Structure Formula : CH₃ - CH (OH) CH - (NH₂) 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
Extinguishing Media : Water
Special Fire Fighting Procedure : Should wear protective clothing and respiratory protection
Unusual Fire and Explosion Hazard : Not a fire hazard

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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 is 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 to be 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 or 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 oC)

Percent Volatile : N/A

Evaporation Rate : N/A

Melting point : 256 oC

10. Stability and reactivity

Stability : Stable if stored in dry conditions in sealed or closed containers

Conditions to avoid : Heating to decomposition

Substances to avoid : Strong oxidizers

Hazardous reaction : None

11. Toxicology

Eyes : Very slightly irritant product

Skin : Not a skin sensitizer

12. Ecology

Degradability : High bio degradable

Bio accumulation : No

Toxicology : Not toxic for wild animals and plants

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 – Threonine
Proper delivering condition : Stored in closed and sealed container
Means of transportation : Sea : By ship
Air : By aeroplane
Packaging : 25 Kg with 1-ply P.E inner &3-ply P.P exterior
800 / 825 kg P.P Woven bag PE laminated

15. Regulatory informations

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 MSDS cancels and replaces any preceding release.