



Indonesia

PT. CHEIL JEDANG INDONESIA

Head Office :
Menara Jamsostek 21st Floor
Jl. Jend. Gatot Subroto Kav. 38
Jakarta 12710 - Indonesia
Tel. : (021) 52995000
Fax. : (021) 52995192-94

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MATERIAL SAFETY DATA SHEET

L-TRYPTOPHAN

No. Doc. TEQ-BRS-13-05

1. Substance / preparation and company name

Product : L-Tryptophan 98% Feed Grade
Manufacturer : PT. Cheil Jedang Indonesia
Desa Arjosari, Kecamatan Rejoso, Kabupaten Pasuruan,
East Java, Indonesia 67181
Emergency Phone : +62-343-482333

2. Composition / information on ingredients

Composition : L - Tryptophan 98 % Feed Grade
Chemical Family : Amino Acid (Essential)
Molecular Formula : $C_{11}H_{12}N_2O_2$
Molecular Weight : 204.23

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

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 : 0.35 ~ 0.50 g/ml

Appearance and Odor : Light yellow powder

Solubility in Water : 1.06 g/ 100 g water (20 °C)

Percent Volatile : N/A

Evaporation Rate : N/A

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 – Tryptophan 98% Feed Grade

Proper delivering condition : Stored in closed and sealed container

Means of transportation

: Sea : By ship

Air : By aero plane

Packaging

: 10 kg net with 3 ply Kraft paper bag and 1 ply PE

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.