

PT. CHEIL JEDANG INDONESIA

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Revised: 4

Review : January, 2019

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 RT.04, RW.02, Kecamatan Rejoso Kabupaten Pasuruan 67181 Jawa Timur - Indonesia

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

PLANT: Desa Arjosari RT.04, RW.02, Kecamatan Rejoso, Kabupaten Pasuruan 67181 - Indonesia TELP.(0343) 482333 FAX. (0343) 482768, 482788

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

9.1 Information on basic physical and chemical properties

Bulk Density : $0.35 \sim 0.50 \text{ g/ml}$

Appearance : White to slightly yellowish-white crystals or crystalline powder

Odor : Odorless

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

Percent Volatile : N/A Evaporation Rate : N/A

9.2 Other Information

 $MIE\ Value$: $10 < MIE < 30\ mJ\ (20\ ^{\circ}C)$ Classification : Normal Combustibility

Method : ASTM E2019

Median Particle size : $74 \mu m$

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

Eves : 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 GradeProper delivering condition: Stored in closed and sealed container

Means of transportation : Sea : By ship

Air : By aero plane

Packaging : 10 kg and 20 kg net with 3 ply Kraft paper bag and 1 ply PE

250 kg net with tycoon bag

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:

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.