



AJINOMOTO®

AJINOMOTO HEARTLAND, INC.

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MATERIAL SAFETY DATA SHEET

L-Threonine [Feed Grade, 98.5%]

MANUFACTURED AND DISTRIBUTED BY: *Ajinomoto Heartland, Inc.*
1116 Hwy 137
Eddyville, Iowa 52553

EMERGENCY PHONE: *(641) 969-4551 – Eddyville, IA*
(773) 380-7000 – Chicago, IL

DESCRIPTION

Product Name: L-Threonine (Feed Grade)
Chemical Name: 2-Amino-3-Hydroxybutyric Acid
CAS Registry Number: 72-19-5
Synonyms: Threonine
Chemical Family: Amino acid
Composition: As L-Threonine, at least 98.5% pure
Formula: C₄H₉NO₃
Molecular Weight: 119.12

PHYSICAL DATA

Bulk Density: 0.6 to 0.7 grams/cm³ (37 to 44 lbs/Ft³)
Appearance & Odor: White to off-white granule
Solubility in Water: 9.76 g/100 g water at 20°C
Percent Volatile: 0%
Evaporation Rate: None

For animal feed only – not for human consumption

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L-TREONINE [Feed Grade, 98.5%]

STATEMENT OF HEALTH HAZARD

Hazard Description: Avoid contact with eyes: mild eye irritant, otherwise non-hazardous.

EMERGENCY TREATMENT

Eyes: Flush eyes with water for 15 minutes. Ensure thorough rinsing.

SPILL OR LEAK PROCEDURES

Steps to be Taken: Ordinary, same as food.

Waste Disposal: Dissolve or suspend in H₂O

FIRE & EXPLOSION HAZARD DATA

Flash Point: None

Auto-ignition Temperature: N/A

Flammable Limits in Air: Non Flammable

Extinguishing Media: Water

Special Fire-Fighting Procedures: Should wear protective clothing and respiratory protection to protect from fumes of NO_x

Unusual Fire & Explosion Hazards: Not a fire hazard

CHEMICAL REACTIVITY

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

Conditions to Avoid: None

Hazardous Decomposition Products: When heated to decomposition: Carbon monoxide, carbon dioxide, nitrogen oxides (NO_x), hydrogen chloride gas fumes will be emitted.

SPECIAL PROTECTION & PROCEDURES

Respiratory Protection: Unnecessary

Ventilation: Ordinary

Protective Equipment: None needed

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HANDLING & STORAGE

Handling:

No particular protection required, although it is recommended to wear gloves and face mask if excessive handling is necessary.

Storage:

Store in dry conditions in sealed or closed containers. After opening, the product should be used within a short period (hygroscopic product). Keep away from sources of ignition.

LABELING & SHIPPING

Proper Shipping Name:

L-Threonine

FDA_{CFR}:

582.5881

AAFCO #:

6.5

DISPOSAL CONSIDERATIONS

Disposal:

Dispose of in accordance with all regulations.

OTHER REGULATORY REQUIREMENTS

None

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