



8430 West Bryn Mawr Ave., Suite 650, Chicago, IL 60631 Tel: (773)380-7000 Fax: (773)380-7006

MATERIAL SAFETY DATA SHEET
L-THREONINE

Manufacturer: Eurolysine
Paris, France

Distributed by: Heartland Lysine, Inc.
Eddyville, Iowa 52553

Emergency Phone: (515) 969-4551 Eddyville
(773) 380-7000 Chicago

DESCRIPTION

Chemical Name: 2-Amino-3-Hydroxybutyric Acid
CAS Registry Number: 72-19-5
Synonyms: Threonine

Chemical Family: Organic
Composition: (As L-Threonine more than 98.5%)
Formula: C₄ H₉ NO₃ MW: 119.12

STATEMENT OF HEALTH HAZARD

Hazard Description: Avoid contact with eyes; mild eye irritant. Otherwise non hazardous.

EMERGENCY TREATMENT

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

PHYSICAL DATA

Specific Gravity: 0.50 - 0.6 kg/l
Appearance & Odor: White to pale, yellow crystal
Solubility in Water at 30°C: 100 g/l
Percent Volatile: 0%
Evaporation Rate: None

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
Autoignition 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, fumes of NO_x will be emitted.

SPECIAL PROTECTION&PROCEDURES

Respiratory Protection: Unnecessary
Ventilation: Ordinary
Protective Equipment: None needed

SPECIAL PRECAUTIONS

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.
Workplace: Protective Equipment: None

LABELING & SHIPPING

Proper Shipping Name: L-Threonine

Label: See Attached
FDA Reg: 582.5881

**OTHER REGULATORY
REQUIREMENTS:**

None