



Safety Data Sheet

Revision 03
02Aug19

1. IDENTIFICATION

Product Name: L-Threonine 80%

Product Number:

Brand: CJ

Intended Use: Animal Feed Ingredient

Synonyms/Alternate Names: THR Pro; Threonine; THR 80%

Manufacturer: CJ Bio America
1946 Harvest Avenue
Fort Dodge, IA 50501
USA

Contact Information: 515-302-8028 (telephone)
515-574-3179 (24-hr phone)
515-574-3190 (fax)

2. HAZARD IDENTIFICATION

Emergency Overview: May be irritating to eyes, skin and mucous membranes

Potential Health Effects

Routes of Exposure: Eye contact, skin contact, inhalation

Acute Effects

Eyes: May cause irritation

Skin: May cause irritation

Inhalation: May cause irritation

Ingestion: Health injuries not known or expected under normal use; not for human consumption

Chronic Effects: None known

OSHA Defined Hazards: Not classified

GHS Label Elements: N/A – Not a hazardous substance or mixture

GHS Signal Word: N/A – Not a hazardous substance or mixture

GHS Precautionary Statements: N/A – Not a hazardous substance or mixture

3. COMPOSITION/INFORMATION ON INGREDIENTS

Common Name: L-Threonine

Formula: C₄H₉NO₃

Non-Hazardous Components

Chemical Name	CAS No.	Molecular Weight	North American Hazard Indicator
L-Threonine	72-19-5	119.12	-

4. FIRST-AID MEASURES

Eye Contact:	Rinse immediately with copious amounts of water for at least 15 minutes; assure adequate flushing by separating eyelids with fingers; if contact lenses are being worn, remove lenses and continue rinsing; seek medical attention
Skin Contact:	Wash with soap and copious amounts of water; if irritation persists, seek medical attention
Inhalation:	Immediately relocate to a fresh air environment; rinse mouth with water; if not breathing, give artificial respiration; if breathing becomes difficult, give oxygen and seek medical attention
Ingestion:	Rinse mouth with water; seek medical attention
Notes to Physician:	Treat symptomatically
Protection of First Aid Providers:	Use personal protective equipment

5. FIRE-FIGHTING MEASURES

Flammable Properties:	Ensure adequate ventilation; avoid dust formation in confined areas; fine dust dispersed in air may ignite; refer to NFPA 64, "Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities"
Suitable Extinguishing Media:	Water; carbon dioxide (CO ₂); dry chemical
Unsuitable Extinguishing Media:	None
Hazardous Combustion Products:	Carbon monoxide (CO); carbon dioxide (CO ₂); nitrogen oxides (NO ₂)
Explosion Data	
Sensitivity to Mechanical Impact:	No information available
Sensitivity to Static Discharge:	No information available
Specific Hazards Arising from the Chemical:	No known hazards
NFPA	
Health:	0
Flammability:	1
Stability & Reactivity:	0
Physical Hazard:	-



6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Ensure adequate ventilation
Environmental Precautions:	Prevent further chemical release if safe to do so
Methods for Clean-up:	Sweep up and shovel into suitable containers for disposal

7. HANDLING AND STORAGE

Handling:	Handle in accordance with good industrial hygiene and safety practices
Storage:	Keep containers dry and tightly closed to avoid moisture absorption and contamination; avoid humidity, sunlight and high temperature

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Chemical Name	ACGIH TLV	OSHA PEL	MEXICO	NIOSH IDLH	OSHA
Particulates not otherwise regulated	TWA: 10mg/m ³	TWA: 15mg/m ³ (total) 5mg/m ³ (respirable)	Not Listed	Not Listed	TWA: 10mg/m ³ (total) 3mg/m ³ (respirable)

Engineering Measures:	Ensure adequate ventilation, especially in confined areas; apply technical measures to comply with the occupational exposure limits
Personal Protective Equipment	
Eye/Face Protection:	Safety glasses, chemical safety goggles
Skin & Body Protection:	Protective clothing
Respiratory Protection:	In case of insufficient ventilation, wear suitable respiratory protection
General Hygiene Consideration:	Handle in accordance with good industrial hygiene and safety practices

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brown to dark brown granule
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Physical State:	Solid; granular
Odor:	Slight odor
Odor Threshold:	No information available
Flash Point:	Not applicable
Auto-ignition Temperature:	> 400°C
Boiling Point:	Not applicable
Melting/Freezing Point:	Approx. 253 - 257°C (decomposes)
Flammability (solid, gas):	Not highly flammable
Exposure Limits:	No information available
Minimum Ignition Temperature:	No information available
pH:	3.5 – 7.5 (5g in 100mL of H ₂ O)
Vapor Pressure:	Not applicable
Solubility:	Insoluble in alcohol and ether
Water Solubility:	Soluble (642 g/L at 30°C)
Evaporation Rate:	Not applicable
Bulk Density:	0.60 to 0.90 g/mL
Specific Gravity:	No information available
Oxidizing Properties:	No information available

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal temperature and pressures
Conditions to Avoid:	Humidity and high temperature
Incompatible Materials:	Strong oxidizing agents
Hazardous Decomposition Products:	Nitrogen oxides (combustion)
Possibility of Hazardous Reactions:	None under normal processing

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

LD50 Oral:	2000 mg/kg (Rat)
LD50 Dermal:	No information available
LC50 Inhalation:	No information available

Chronic Effects

Carcinogenicity:	No known carcinogenic chemicals in product
OSHA:	Not listed
ACGIH:	Not listed
NTP:	Not listed
Mexico:	Not listed
IARC:	Not listed

Sub-chronic Toxicity:	No information available
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Irritation:	No information available
Corrosivity:	No information available
Sensitization:	No information available
Neurological Effects:	No information available
Mutagenic Effects:	No information available
Reproductive Effects:	No information available
Developmental Effects:	No information available
Teratogenicity:	No information available
Target Organ Effects:	Respiratory system; eyes; skin

12. ECOLOGICAL INFORMATION

Eco-toxicity:	Contains no substances known to be hazardous to the environment; contains no substances known to be non-degradable in waste water treatment plants
Persistence/Degradability:	Readily biodegradable
Bioaccumulation/Accumulation:	No information available
Mobility in soil:	No information available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods:	May be landfilled or incinerated, when in compliance with local regulations; dispose of in compliance with the laws and regulations pertaining to this product in your jurisdiction
Contaminated Packaging:	Empty containers may be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

Domestic Transport Regulations (USA):	DOT – Not regulated
Domestic Transport Regulations (CAN):	TDG – Not regulated
Domestic Transport Regulations (MEX):	MEX – Not regulated
International Transport Regulations	
ICAO:	Not regulated
IATA:	Not regulated
IMDG/IMO:	Not regulated

15. REGULATORY INFORMATION

International Inventories:	None specifically
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USA – Federal Regulations

Ozone Depleting Substances:

No Class I or Class II material is known to be used in the manufacture of, or contained, in this product

SARA 313:

Not known to contain reportable chemicals

SARA 311/312 Hazardous Categorization:

Not known to contain reportable chemicals

Acute Health Hazard:

No

Chronic Health Hazard:

No

Fire Hazard:

No

Sudden Release of Pressure Hazard:

No

Reactive Hazard:

No

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPS) – 40 CFR 61:

Not known to contain any HAPS

State Regulations

California Proposition 65:

Not known to contain Proposition 65 chemicals above those naturally present in their agricultural source

State Right-to-know:

No known components subject to “Right-to-Know” legislation of any U.S. state

Canada

WHMIS Product Classification:

Not a WHMIS controlled product

WHMIS Ingredient Disclosure List IDL:

No known component is listed on the WHMIS Ingredients disclosure list

Canadian National Pollutant Release Inventory (NPRI):

No known component is listed on NPRI

16. OTHER INFORMATION

Prepared By:

CJ Bio America

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12/01/2017

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08/02/2019

Revision Summary:

Verified/updated content to be correct; formatting.

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