

Section 1: Identification

Product Identifier: Thermostable Amylase HTL
Other Identifier: None
Recommended Use: See Product Information Sheet
Supplier Information: BIO-CAT, Inc.
 9117 Three Notch Road
 Troy, Virginia 22974
 (p) 434-589-4777 (f) 434-589-3301
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Emergency Phone: 434-589-4777 8:00 am – 4:30 pm EST

Section 2: Hazard Identification

Classification: H315, Skin Irritant Category 2
 H319, Eye Irritant Category 2
 H334, Respiratory Sensitizer Category 1, 1A, 1B
 H335, STOT – Single Exposure Respiratory Irritant Category 3
Signal Word: Danger



Pictogram:

Hazard Statements: H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H335 May cause respiratory irritation.
Precautionary Statements: P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves and eye protection.
 P264/265 Wash hands and face thoroughly after handling. Do not touch eyes.
 P284 Wear respiratory protection.

Section 3: Composition / Information on Ingredients

Name: Alpha Amylase **CAS Number:** 9000-90-2 **% by weight:** 1 - 6%

Section 4: First-Aid Measures

Inhalation: If inhaled, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms, get emergency medical help immediately. Get medical help if you feel unwell.
Eye Contact: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical help.
Skin Contact: If on skin, wash with plenty of water. If skin irritation persists, get medical help. Take off contaminated clothing and wash it before reuse.
Ingestion: If swallowed, rinse mouth and throat thoroughly with tap water. Drink water.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media: Standard procedure for chemical fires. Foam. Water.
Unsuitable Extinguishing Media: None



Specific Exposure Hazards: None
Special Protective Precautions for Firefighters: No special requirements

Section 6: Accidental Release Measures

Personal Precautions: Use only outdoors or with adequate ventilation/personal protection. Avoid formation of dust and aerosols, see section 8. Wash hands and face thoroughly after handling. Do not touch eyes.
Environment Precautions: Contain spill.
Containment: Prevent further leakage or spillage if safe to do so.
Cleanup Procedures: Contain and remove spilled product by mechanical means or with a vacuum cleaner equipped with a high efficiency filter. Avoid formation of dust. Flush away spillage with plenty of water, avoid splashing and high pressure washing.

Section 7: Handling and Storage

Safe Handling: Never handle without appropriate personal protective equipment in accordance with section 8. Avoid breathing dust/fumes/gas/mist/vapors/spray. Avoid formation of dust, splashing and high pressure washing. Ensure good air flow of the room when handling this product.
Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Section 8: Exposure Controls/Personal Protection

Engineering Measures: Adequate ventilation, local exhaust required for dusty conditions.
Eye Protection: Wear eye protection/face protection.
Skin Protection: Use protective gloves. Wear appropriate clothing to prevent skin contact.
Respiratory Protection: Use NIOSH approved respiratory protection such as full-face mask.

Section 9: Physical and Chemical Properties

Physical State: Liquid
Color: Clear to Brown
Odor: Characteristic enzyme odor
Solubility: Soluble
Others: Melting Point/Freezing Point, Boiling Range, Flash Point, Flammability, Flammability and Explosive Limits, Vapor Pressure, Vapor Density, Relative Density, pH, Solubility, Partition Coefficient N-Octanol/Water, Auto-Ignition Temperature, Decomposition Temperature, Viscosity, Particle Characteristics are not available.

Section 10: Stability and Reactivity

Reactivity: Not available
Chemical Stability: Stable under normal storage conditions
Hazardous Reactions: Not available
Conditions to Avoid: Not available
Incompatible Materials: Not available
Hazardous Decomposition Products: Not available

Section 11: Toxicological Information

Routes of Exposure: Eye contact, skin contact, ingestion, inhalation
Symptoms
Immediate: Can cause irritation to the eyes, skin, mucus membranes, and the upper respiratory tract.
Delayed: Chronic inhalation exposure may lead to allergic sensitization based on exposure level, duration, and susceptibility.
Acute toxicity: Not available
Eye Irritation: Causes serious eye Irritation.

Skin Irritation:	Causes skin irritation.
Aspiration Hazard:	Inhalation may cause respiratory irritation.
Respiratory or Skin Sensitization:	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Germ Cell Mutagenicity:	Not available
Reproductive Toxicity:	Not expected to produce reproductive toxicity.
Carcinogenicity:	Not classified as a carcinogen by IARC, OSHA, or NTP.
SPOT-Single Exposure:	Not available
SPOT-Repeated Exposure:	Not available

Section 12: Ecological Information

Ecotoxicity:	Not available
Degradability:	The product is biodegradable.
Bioaccumulation:	The product is not bioaccumulating.
Mobility in Soil:	Not available
Other Adverse Effects:	Not available

Section 13: Disposal Considerations

No special disposal method required, except that in accordance to all applicable federal, state, and local regulations.

Section 14: Transport Information

Harmonized Tariff Code:	3507.90.7000 (for enzymes)
UN Number:	Not classified
UN Proper Shipping Name:	Not classified
Transportation Hazard Class:	Not classified
Packing Group:	Not classified
Transport Environmental Hazard:	Not classified
Transport Special Precautions:	Not classified
MARPOL:	Not classified

Section 15: Regulatory Information

All components of this product are either on the TSCA inventory or otherwise exempt from listing.

Section 16: Other Information

GHS Format

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General Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

END OF SAFETY DATA SHEET