

**SAFETY DATA SHEET**

Revision date: 2024/07/11

Compliant with 29 CFR §1910.1200 HCS 2012

Compliant with HPR WHMIS 2015

# AMYL XTP Extreme

**1. PRODUCT AND COMPANY IDENTIFICATION**

<b>Product Name</b>	AMYL XTP Extreme
<b>Chemical Name</b>	Enzyme preparation
<b>Declared activity</b>	Alpha-amylase

<b>Use of the substance/preparation</b>	Enzyme preparations are biocatalysts used in a variety of industrial processes and in certain consumer products
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**Supplier's details**

CTE Global, Inc.  
630 Dundee Road, Suite 440  
Northbrook, IL 60062

**Information Telephone Number**

847-564-5770, 8 am - 4:30 pm CST M-F

**Emergency Telephone Number**

1-800-424-9300 (Chemtrec) 24 hours every day

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## 2. HAZARD IDENTIFICATION

### Classification

Classification of the chemical in accordance with 29CFR §1910.1200  
WHMIS Classification

Respiratory sensitization

Category 1

### Label elements

#### Danger

#### Hazard statements

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

#### Precautionary Statements - Prevention

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P284 - In case of inadequate ventilation wear respiratory protection

#### Precautionary Statements - Response

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician



#### Hazards not otherwise classified (HNOC)

1	Health
1	Flammability
0	Reactivity
X	Protective Equipment



## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	IUB No.	Weight-%
Alpha-amylase (aep.)	9000-90-2	3.2.1.1	1 - 5
Protease (aep.)	9001-92-7	-	0.1- < 1

aep (active enzyme protein) contributes to the GHS classification.

#### 4. FIRST AID MEASURES

In case of unintended overexposure, the following measures apply

##### **Inhalation**

Effects

May cause allergic respiratory reaction.

Symptoms

Shortness of breath, wheezing and coughing.

The effect of inhalation may be delayed.

First Aid

Remove person to fresh air. If signs/symptoms continue, get medical attention.

Show this safety data sheet to the doctor in attendance.

##### **Skin Contact**

Effects

May cause slight irritation.

Symptoms

Slight irritation.

First Aid

Remove and wash contaminated clothing before re-use. Wash off immediately with plenty of water. If symptoms persist, call a doctor. Show this safety data sheet to the doctor in attendance.

##### **Eye Contact**

Effects

May cause slight irritation.

Symptoms

Slight irritation.

First Aid

Hold eye open and rinse slowly and gently with water for 15-20 min. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. If symptoms persist, call a doctor. Show this safety data sheet to the doctor in attendance.

##### **Ingestion**

Effects

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms

Irritation.

First Aid

Rinse mouth with water and drink plenty of water. If symptoms persist, call a doctor. Show this safety data sheet to the doctor in attendance..

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#### 5. FIRE-FIGHTING MEASURES

##### **Flammable Properties**

Slightly flammable according to HMIS criteria.

##### **Suitable Extinguishing Media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

##### **Unsuitable Extinguishing Media**

None.

##### **Hazardous Combustion Products**

None.

##### **Specific Hazards Arising from the Chemical**

May cause allergic respiratory reaction

##### **Protective Equipment and Precautions for Firefighters**

Self-contained breathing apparatus and standard turn-out apparel

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions** For personal protection see section 8

**Environmental Precautions** Collect spillage.

**Methods for cleaning up** Avoid formation of dust and aerosols.

Spilled preparation should be removed immediately to avoid formation of dust from dried preparation. Take up by mechanical means preferably by a vacuum cleaner equipped with a HEPA (High Efficiency

Particulate Air) filter. Flush remainder carefully with plenty of water. Avoid splashing, high pressure washing or compressed air cleaning to avoid formation of aerosols. Ensure sufficient ventilation. Wash contaminated clothing.

**Other Information** For personal protection see section 8.

## 7. HANDLING AND STORAGE

**Handling** Avoid formation of dust and aerosols.  
Ensure adequate ventilation.  
Liquid enzyme preparations are dustfree preparations  
However, inappropriate handling may cause formation of dust or aerosols

**Storage** Keep tightly closed in a dry and cool place. Temperature 0-25 °C (32-77 °F)

**Storage Conditions** In unbroken packaging - dry and protect from the sun. The product has been formulated for optimal stability. Extended storage or adverse conditions such as higher temperatures or higher humidity may lead to a higher dosage requirement.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical name	ACGIH TLV
Protease (aep.)	Ceiling: 0.00006 mg/m <sup>3</sup> Ceiling (as crystalline active enzyme, listed under Subtilisins)

Chemical name	DNEL Dermal Acute Local (Workers)	DMEL Inhalation Long term Local (Workers)
Alpha-amylase (aep.)	-	DMEL = 60 ng/m <sup>3</sup>
Protease (aep.)		DMEL = 60 ng/m <sup>3</sup>

**Derived No Effect Level (DNEL)**

**Derived Minimal Effect Level (DMEL)**

### Occupational exposure controls

#### Engineering Controls

Ensure adequate ventilation, especially in confined areas.  
Maintain good conditions of industrial hygiene. Some processes may require enclosures, local exhaust ventilation, or other engineering controls to control airborne levels. Additional handling and healthy/safety information is available upon request

### Personal Protective Equipment

#### Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment that meets HEPA/P100 specifications

**Eye Protection**  
**Skin and body protection**

Wear safety glasses with side shields (or goggles)  
No special technical protective measures are necessary

**General Hygiene Considerations**  
**Environmental exposure controls**

Handle in accordance with good industrial hygiene and safety practice  
Local authorities should be advised if significant spillages cannot be contained

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical State	Liquid
Color	Light to dark brown
Odor	Slight fermentation odor
pH	Adjusted to the range where active enzyme is stable – typically pH 4 – 9
Melting point / freezing point	No data available
Boiling Point/Range	No data available > 100 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not determined
Upper/lower flammability or explosive limits	Not available
Vapor Pressure	No data available
Vapor density	Not available
Density (g/ml)	1.14
Solubility	Readily soluble in application-relevant solutions at all levels of concentration, temperature and pH which may occur in normal usage.
Partition Coefficient (n-octanol/water)	No data available
Autoignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
<b>Other information</b>	No information available

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## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Not relevant
<b>Chemical stability</b>	Stable under recommended storage conditions
<b>Possibility of hazardous reactions</b>	None under normal processing
<b>Conditions to Avoid</b>	None
<b>Incompatible materials</b>	None
<b>Hazardous Decomposition Products</b>	None

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## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

Repeated inhalation of enzyme dust or aerosols resulting from improper handling may induce sensitization and may cause allergic type 1 reactions in sensitized individuals  
Mild skin irritation  
Mild eye irritation  
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea



Chemical name	Acute oral toxicity	Acute inhalation toxicity	Skin corrosion/irritation	Serious eye damage/eye irritation
Alpha-amylase (aep.)	Data conclusive but not sufficient for classification No signs of toxicity were observed at the highest possible dose among the rats treated with a single oral dose of 2562 mg enzyme concentrate dry matter/kg body weight (equivalent to 858.9 mg active enzyme protein/ kg body weight).	No data available	Not irritating (OECD TG 404)	Not irritating (OECD TG 405)
Protease (aep.)	LD50: > 2000 mg/kg bw (OECD TG 401)		irritating (OECD TG 404)	Not irritating (OECD TG 405)

Chemical name	Specific target organ toxicity (single exposure)	Genetic toxicity	Skin sensitization	Respiratory sensitization
Alpha-amylase (aep.)	Data conclusive but not sufficient for classification	No indication of mutagenic effects (OECD TG 471, 476)	Data conclusive but not sufficient for classification	Sensitizer (Human experience)
Protease (aep.)		No indication of mutagenic effects (OECD TG 471, 473)		Sensitizer (Human experience)

## 12. ECOLOGICAL INFORMATION

### Toxicity

Chemical name	Daphnia, acute	Algae, acute	Fish, acute
Alpha-amylase (aep.)	EC50 (48 hours): 31.7 - 457 mg aep/l (OECD TG 202)	ErC50 (72 hours): >= 5.2 mg aep/l (OECD TG 201)	LC50 (96 hours): 58.3 - 326.7 mg aep/l (OECD TG 203)
Protease (aep.)	EC50 (48 hours): 3.24 mg aep/l (OECD TG 202)	ErC50 (72 hours): 0.52 mg aep/l (OECD TG 201)	LC50 (96 hours): >18.4 mg aep/l (OECD TG 203)

### Persistence/Degradability

Chemical name	Persistence and degradability	Partition coefficient (n-octanol/water)
Alpha-amylase (aep.)	Readily biodegradable (OECD 301F)	LogPow: <0
Protease (aep.)	Readily biodegradable (OECD 301)	LogPow: <0

  

Chemical name	Bioaccumulative Potential
Alpha-amylase (aep.)	Does not bioaccumulate
Protease (aep.)	Does not bioaccumulate

**Mobility in soil** Not relevant

**Other adverse effects** No information available

## 13. DISPOSAL CONSIDERATIONS

**Disposal of wastes** Dispose of in accordance with local regulations.

**Contaminated Packaging** Dispose of wastes in an approved waste disposal facility.

## 14. TRANSPORT INFORMATION

### Transport Regulations

No dangerous goods according to transport regulations

No special precautions required

UN-No	Not applicable
Proper Shipping Name	Not applicable
Packing Group	Not applicable
Reportable Quantity (RQ)	Not applicable
Marine Pollutant	Not applicable

### International Regulations

IATA	Not regulated
IMDG	Not regulated

## 15. REGULATORY INFORMATION

### USA, Federal Regulations

#### TSCA Inventory

The active ingredient and all components of the enzyme preparation are listed on the TSCA inventory

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and 40 CFR Part 372.

### SARA 311/312 Hazardous Categorization

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

### USA, State Regulations

#### California Proposition 65

This product does not contain any intentionally added Proposition 65 chemicals.

### Canada

#### DSL/NDSL

All components are listed either on the DSL or NDSL

#### WHMIS Statement

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by WHMIS 2015.

## 16. OTHER INFORMATION

### GHS-Classification

The GHS calculation method has been used for classification of this mixture.

### Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text. Furthermore, as the conditions of use are beyond the control of CTE Global, it is the responsibility of the customer to determine the conditions of safe use of these products.

### End of Safety Data Sheet

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