

Safety Data Sheet

Section 1: Identification of the substance/mixture and of the company/undertaking		
Product Name:	AMYL XT	
Chemical Name:	Enzyme preparation	
Declared Activity:	Alpha-amylase	
Recommended Use:	Used in a variety of industrial processes and in certain consumer products	
Company Identification:	CTE Global, Inc.	
	630 Dundee Road, Suite 440	
	Northbrook, IL 60062	
Emergency Telephone Number:	847-564-5770	

Section 2: Hazards identification	
Classification:	Classification of the chemical in accordance with 29CFR §1910.1200

Respiratory sensitization	Category 1
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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

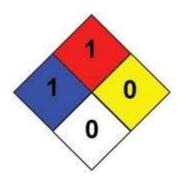


AMYL XT Date: 12/09/2019 Version No. 1



Hazards not otherwise classified (HNOC)

1	Health
1	Flammability
0	Reactivity
X	Protective Equipment



Precautionary Statements – Prevention

P261 – Avoid breathing dust/fumes/gas/mist/vapors/spray

P284 – In case of inadequate ventilation wear respiratory protection

Precautionary Statements – Response

P304 + P340 – IF INHALED: If breathing is difficult, remove to fresh air and keep comfortable for breathing

P311 – If experiencing respiratory symptoms: call a POISON CENTRE or doctor/physician

Section 3: Composition/information on ingredients					
	Chemical Name	CAS-No	IUB No.	Weight %	
	Alpha-amylase (aep)	9000-90-2	3.2.1.1	1-5	

aep (active enzyme protein) contributes to the GHS classification

Section 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 effects 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.	

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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	
	minutes. Remove contact lenses, if present, after 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 to the doctor in	
	attendance.	
Section 5: Firefighting 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 Hazard Arising from the (Chemical May cause allergic respiratory reaction.	
Protective Equipment and Proces	utions for Self-contaminated breathing apparatus and standard	
• •	0 11	
Firefighters	standard turn-out apparel.	
Section 6: Accidental Release Me		
Personal Precautions		
reisonal riecautions	For personal protection see section 8.	
Environmental Precautions	Collect spillage.	
	conect spinage.	
Methods for Cleaning Up	Avoid formation of dust and aerosols.	
methous for cleaning op		
	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.

For personal protection see section 8

Section 7: Handling and storage			
Handling	Avoid formation of dust and aerosols.		
	Ensure adequate ventilation.		
	Liquid enzyme preparations are dust free 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.		

Section 8: Exposure controls/personal protection

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

Derived No Effect Level (DNEL) Derived Minimal Effect Level (DMEL) Occupational Exposure Controls

Engineering ControlsEnsure 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	Wear safety glasses with side-shields (or goggles).
Skin and Body Protection	No special technical protective measures are necessary.
General Hygiene Consideration	Handle in accordance with good industrial hygiene and safety practices.
Environmental Exposure Controls	Local authorities should be advised in significant spillages cannot be contained.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Physical State:	Liquid
Color:	Light to dark brown
Odor:	Slightly fermentation odor
pH:	4.0-9.0
Melting/Freezing Point:	No information available
Boiling Point:	Not determined
Flash Point:	Not determined
Evaporation Rate:	Not available
Flammability (solid, gas)	Not determined
Upper/Lower Flammability:	Not available
Vapor Pressure:	No data available
Vapor Density:	Not available
Density (g/ml):	1.12
Solubility:	Active components is readily soluble in application-relevant
	solutions at all levels of concentration, temperature and pH
	which may occur in normal usage.
Partition Coefficient:	No data available
Autoignition Temperature:	Not available
Decomposition Temperature:	Not available
Viscosity:	Not available
Other Information:	No information available

Section 10: Stability and Reactivity

Reactivity

Not relevant



Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal processing
Conditions to Avoid	None
Incompatible Materials	None

Hazardous Decomposition Products None Section 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				Serious eye damage/eye irritation
Alpha-amylase (aep)			-	Not irritating (OECD TG 405)
	Specific target organ toxicity-single exposure		Skin sensitization	Respiratory sensitization
Alpha-amylase (aep)		No indication of mutagenic effects (OECD TG 471,476)		Sensitizer (Human experience)

Section 12: Ecological Information

Toxicity Chemical Name Daphnia, acute Algae, acute Fish, acute Alpha-amylase (aep) EC50 (48 hours): 31.7 - 457 ErC50 (72 hours): >= 5.2 LC50 (96 hours): 58.3 mg aep/I (OECD TG 202) mg aep/l 326.7 mg (OECD TG 201) aep/l (OECD TG 203)



Persistence/Degradabil	ity				
Chemical Name	Persistence and	d degradability	Partition coefficient		
			(n-octanol/water)		
Alpha-amylase (aep)	Readily biodegr	adable (OECD 301F)	LogPow: <0		
Chemical Name		Bioaccumulative Potential			
Alpha-amylase (aep)		Does not bioaccumul	ate		
Mobility in Soil:	Not	relevant			
Other Adverse Effects	No	Information availab	le		
Section 13: Disposal Co					
•		Dispose of in accordance with local regulations.			
Contaminated Packaging		Dispose of wastes in an approved waste disposal facility.			
Section 14: Transport I	nformation				
Transport Regulations					
No dangerous goods ac No special precautions	-	sport regulations.			
Transport Hazard Class(es)		Not applicable			
Packing Group	Not	applicable			
Environmental Hazards		Not applicable			
Section 15: Regulatory	Information				
USA, Federal Regulatio					
•		he active ingredient and all components of the enzyme preparation re listed on the TSCA inventory.			
SARA 313					
	Real	uthorization Act of	f the Superfund Amendments and 1986 (SARA). This product does not contain subject to the reporting requirements of the 2.		



SARA 311/312 Hazardous Categorization

Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Hazard Reactive Hazard <u>USA, State Regulations</u> California Proposition 65	No No No No This product does not contain any Proposition 65 chemicals.
<u>Canada</u> 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 Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR .
Section 16: Other Information Indication of changes:	10/08/2019
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, Inc., it is the responsibility of the customer to determine the conditions of safe use of these products.