



# Material Safety Data Sheet

Protective Clothing		HCS	DOT	
		Class: Irritating Substance		

Section I. Product Identification and Uses				
Synonyms	Not available	HMIS	H 2	F 0 R 0 PE B
Common/Trade Name	<b>Ma-Zyme LAXI</b>	TSCA	TSCA inventory: All components listed	
Chemical Name	Not applicable		TSCA 12(b) one time export: Not Listed	
Chemical formula	Not applicable	DSL	TSCA 12(b) annual export notification: Not Listed	
Chemical family	Enzyme Preparation		CEPA DSL: All components listed	
Manufactured / Supplied	Maple Solutions	CAS#	CEPA NDSL : Not listed	
	3019 Lake Road		Mixture	
	D.D.O. QC, H9B 2R3, Canada			
Material uses	Not available	Code		
Validation Date	Validated on 12/12/2006	Molecular Weight	Not applicable	
		Revision Number	1.0	

Section IA. First Aid Measures	
Eye contact	Flush eyes with low-pressure water for at least 15 min. If irritation persists, seek medical attention.
Skin contact	Wash skin thoroughly with soap and water. Remove contaminated clothes and discard
Hazardous Inhalation	Remove from contaminated area to fresh air. Seek medical attention if allergic response exhibited
Hazardous ingestion	Rinse mouth and throat thoroughly with water. Do not induce vomiting. Seek medical attention

Section II. Hazardous Ingredients				
Name	CAS#	% by Weight	TLV/PEL	LC <sub>50</sub> /LD <sub>50</sub>
Fermentation derived protein	9012-54-8	10 – 30% (W/W)		

Section III. Physical Data			
Physical state and appearance	Liquid	Odor	Typical fermented product
pH and Solution Conc.	4.40 to 4.60	Taste	Not available
Odor threshold	Not available	Color	Clear Amber
Volatility	Not determined	Freezing Point	-3°C
Melting Point	Not determined		
Boiling point	101 °C		
Specific Gravity	1.18 to 1.22 g/ml		
Vapor density	Not available		
Vapor pressure	As H <sub>2</sub> O		
Evaporation rate	Not available		
Viscosity	Not Tested		
Ionicity (surface active agent)	Not determined		
Critical temperature	Not available		
Instability temperature	Not available		
Condition of instability	Note available		
Dispersion properties	See solubility in Water		
Solubility	Easily soluble in cold water, hot water		
VOC's (g/L)(EPA 24/24A)	Not determined		
HAPs or TAPs	Clean air act (CAA) 112 accidental release prevention : Not listed Clean air act (CAA) 112 regulated flammable substances : Not listed Clean air act (CAA) 112 regulated toxic substances : Not listed		

Section IV. Fire and Explosion Data	
The product is	Non-flammable
Auto-ignition temperature	Not available
Fire degradation products	Not available
Flash points	Not available
Flammable limits	Not available
Fire extinguishing procedures	Use extinguishing media suitable for surrounding materials. Wear adequate personal protection to prevent contact with material or its combustion products Use All standard firefighting media
Flammability	Not applicable
Risks of explosion	Product does not have explosive properties

Section V. Reactivity Data	
Stability	Stable
Freeze/Thaw Stability	Not available
Hazardous decomp. / products	None anticipated
Degradability	Not available

<b>Products of degradation</b>	None anticipated
<b>Corrosivity</b>	None anticipated
<b>Reactivity</b>	None anticipated

### Section VI. Toxicological Properties

<b>Routes of entry</b>	Eye contact, Ingestion, Inhalation	
<b>TLV</b>	Refer to Section II. Hazardous Ingredients	
<b>Toxicity to animals</b>	LD50 (dermal) : No data. LD50 Oral Rat LD50 > 5,000 mg/kg (data are based on studies from similar fungal cellulase) LC50 Oral: rat LC50 > 3.9 mg/L single dose (data from similar alpha amylase)	
<b>Chronic effects on humans</b>	CARCINOGENIC EFFECTS MUTAGENIC EFFECES TERATOGENIC EFFECTS DEVELOPMENTAL TOXICITY	Not classified as a carcinogen by IARC, OSHA, or NTP. Respiratory sensitivity (allergy) possible.
	Repeated or prolonged exposure is not known to aggravate any medical condition	
<b>Acute effects on humans</b>	No data.	
<b>Aquatic Toxicity (LC50)</b>	No data.	

### Section VII. Preventive Measures and First Aid

<b>Waste Information</b>	This material, as received, is not expected to be a hazardous waste under RCRA. Waste management should be in compliance with federal, state and local regulatory requirements.
<b>Waste Stream</b>	Not available
<b>Storage</b>	Keep container tightly closed in a cool, well-ventilated place.
<b>Precautions</b>	Avoid contact with skin and eyes. Avoid breathing vapors or spray mists. After handling, always wash hands thoroughly with soap and water. Keep container tightly closed in a cool, well-ventilated place.
<b>Small spill and leak</b>	Dilute with water and mop up or absorb with an inert material and place in an appropriate waste disposal container. Finish by spreading water on contaminated area and dispose in accordance with local and state regulations.
<b>Large spill and lea</b>	Stop leak if without risk. Absorb with an inert material and put the spilled material in an appropriate waste disposal. Be careful that the product is not present at a concentration level above TLV.
<b>Protective clothing in case of large spill</b>	Splash goggles. Boots, Full suit, gloves. Consult a specialist when handling this product.

### Section VIII. Classification

<b>DOT</b>	Not a DOT controlled material (United States)
<b>USA</b>	EPA: This material is included on the TSCA inventory list.
<b>Maritime transportation</b>	Not pollutant
<b>CANADA</b>	WHMIS: This is a controlled product under Class D2
<b>Federal and State regulations</b>	Note: California Prop. 65 require the listing of reportable chemicals that is believed to exist in this product at any detectable or suspected level no matter how minute.
<b>International lists</b>	Labeling in accordance with EC directives: Xn (harmful) R42: May cause sensitization by inhalation S23: Do not breathe spray

### Section IX. Protective Clothing

<b>Safety glasses, Gloves (impervious)</b>	
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### Section X. Other information

<b>References</b>	Not available
<b>Special Test Results</b>	Not available
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