



# Material Safety Data Sheet

Protective Clothing		HCS	DOT	
		Class: Sensitizing 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 LAX</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		CEPA DSL: All components listed	
Manufactured / Supplied	Maple Solutions	CAS#	CEPA NDLS : Not listed	
	3019 Lake Road		Mixture	
	D.D.O. QC, H9B 2R3, Canada			
Material uses	Not available	Code	S07042402A	
Validation Date	Validated on 25/04/2007	Molecular Weight	Not applicable	
		Revision Number	1.0	

Section IA. First Aid Measures	
Eye contact	Immediately flush eyes with running water for at least 15 minutes, keeping eye lids open.
Skin contact	Wash gently and thoroughly the contaminated skin with running water and non-abrasive soap.
Hazardous Inhalation	Allow the victim to rest in a well ventilated area. Give artificial respiration if not breathing. Oxygen may be administered if breathing is difficult. Get medical attention if symptoms appear.
Hazardous ingestion	Do not induce vomiting unless directed so by medical personnel. Seek medical advice if symptoms appear.

Section II. Hazardous Ingredients				
Name	CAS#	% by Weight	TLV/PEL	LC <sub>50</sub> /LD <sub>50</sub>
1. Cellulase	9012-54-8	5 – 10	Not available	Not available
2. Glycerine	56-81-5	Proprietary	Not available	Not available

Section III. Physical Data			
Physical state and appearance	Liquid	Odor	Fermentation
pH and Solution Conc.	4.5 to 5.5 (acidic)	Taste	Not available
Odor threshold	Not available	Color	Amber (light)
Volatility	Not available		
Melting Point	Not available		
Boiling point	Not available		
Specific Gravity	1.1 (Water = 1)		
Vapor density	Not available		
Vapor pressure	Not available		
Evaporation rate	Not available		
Viscosity	Not available		
Ionicity (surface active agent)	Not available		
Critical temperature	Not available		
Instability temperature	Not available		
Condition of instability	Not 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	May be combustible at high temperature
Auto-ignition temperature	Not available
Fire degradation products	Not available
Flash points	Closed cup: Higher than 93.3 °C (200 °F)
Flammable limits	Not available
Fire extinguishing procedures	Small fire: Use DRY chemical powder Large fire: Use water spray fog or foam, do not use water jet.
Flammability	Not available
Risks of explosion	Not available

Section V. Reactivity Data	
Stability	Stable
Freeze/Thaw Stability	Not available
Hazardous decomp. / products	Oxides of carbon
Degradability	Not available

<b>Products of degradation</b>	Oxides of carbon.
<b>Corrosivity</b>	Not available
<b>Reactivity</b>	Not available

### Section VI. Toxicological Properties

<b>Routes of entry</b>	Skin contact, Eye contact, Inhalation, Ingestion	
<b>TLV</b>	Refer to Section II. Hazardous Ingredients	
<b>Toxicity to animals</b>	LD50 (acute oral toxicity) : >5000 mg/kg [Rat]	
<b>Chronic effects on humans</b>	CARCINOGENIC EFFECTS	Not available
	MUTAGENIC EFFECES	Not available
	TERATOGENIC EFFECTS	Not available
	DEVELOPMENTAL TOXICITY	Not toxic
	Repeated inhalation of mist by susceptible individuals will result in allergenic sensitization. Exposure may result in respiratory irritation, inflammation of the mucus membrane of the nose and eyes, coughing chest tightness and difficulty in breathing.	
<b>Acute effects on humans</b>	This product may irritate eyes and skin upon contact. Over-exposure by inhalation may cause respiratory irritation.	
<b>Aquatic Toxicity (LC50)</b>	Ecotoxicity in water: 330 mg/l 96 hours [fish (zebra fish)]	

### Section VII. Preventive Measures

<b>Waste Information</b>	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>	Keep away from heat, keep away from sources of ignition, empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breath gas-fumes- vapor – spray. If ingested seek medical advice immediately and show the container and lable.
<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 leak</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)
	Not applicable, RQ Not available
<b>Maritime transportation</b>	Not available
<b>HCS</b>	CLASS: Sensitizing substance.
<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.
	CERCLA: Hazardous substances: Not listed SARA 313 toxic chemical notification and release reporting: Not listed
<b>International lists</b>	Not Listed

### 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
<b>CHEMTREC (24 HRS)</b>	<b>+1 (800) 424 9300</b>

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