



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	Ma-Zyme LAXI	TSCA	TSCA inventory: All components listed TSCA 12(b) one time export: Not Listed TSCA 12(b) annual export notification: Not Listed
Chemical Name	Not applicable		
Chemical formula	Not applicable	DSL	CEPA DSL: All components listed CEPA NDSL : Not listed
Chemical family	Enzyme Preparation		
Manufactured / Supplied	Maple Solutions 3019 Lake Road D.D.O. QC, H9B 2R3, Canada	CAS#	Mixture
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 ₅₀ /LD ₅₀
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 ₂ 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

Products of degradation	None anticipated
Corrosivity	None anticipated
Reactivity	None anticipated

Section VI. Toxicological Properties

Routes of entry	Eye contact, Ingestion, Inhalation	
TLV	Refer to Section II. Hazardous Ingredients	
Toxicity to animals	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)	
Chronic effects on humans	CARCINOGENIC EFFECTS MUTAGENIC EFFECTS 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	
Acute effects on humans	No data.	
Aquatic Toxicity (LC50)	No data.	

Section VII. Preventive Measures and First Aid

Waste Information	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.
Waste Stream	Not available
Storage	Keep container tightly closed in a cool, well-ventilated place.
Precautions	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.
Small spill and leak	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.
Large spill and leak	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.
Protective clothing in case of large spill	Splash goggles. Boots, Full suit, gloves. Consult a specialist when handling this product.

Section VIII. Classification

DOT	Not a DOT controlled material (United States)
USA	EPA: This material is included on the TSCA inventory list.
Maritime transportation	Not pollutant
CANADA	WHMIS: This is a controlled product under Class D2
Federal and State regulations	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.
International lists	Labeling in accordance with EC directives: Xn (harmful) R42: May cause sensitization by inhalation S23: Do not breathe spray

Section IX. Protective Clothing

Safety glasses, Gloves (impervious)	
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Section X. Other information

References	Not available
Special Test Results	Not available

To the best of our knowledge the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist