



Material Safety Data Sheet

Protective Clothing		HCS	DOT	
		Class: Irritating Substance		

Section I. Product Identification and Uses

Synonyms	Not available	HMIS	H 2 F 1 R 0 PE B
Common/Trade Name	Ma-Zyme CAT 200	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 07-02-2005	Molecular Weight	Not applicable
		Revision Number	1.0

Section IA. First Aid Measures

Eye contact	Flush with copious amounts of water for at least 15 min. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic survival care as necessary.
Skin contact	Flush with copious amounts of water for at least 15 min. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic survival care as necessary.
Hazardous Inhalation	Remove from source of exposure. Provide symptomatic survival care as necessary. Seek medical attention if symptoms appear.
Hazardous ingestion	Rinse mouth and throat thoroughly with water. 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 ₅₀ /LD ₅₀
Catalase (fungal)	9001-05-2	Proprietary		
Sodium Chloride	7647-18-5	Proprietary		
Sodium Citrate	6132-04-3	Proprietary		
Sodium Biphosphate	7558-80-7	Proprietary		

Section III. Physical Data

Physical state and appearance	Liquid	Odor	Typical fermented product
pH and Solution Conc.	5.1 – 5.4	Taste	Not available
Odor threshold	Not available	Color	Dark Brown
Volatility	Not determined		
Melting Point	Not determined		
Boiling point	Not determined		
Specific Gravity	1.15 – 1.19		
Vapor density	Not available		
Vapor pressure	Not available		
Evaporation rate	Not available		
Viscosity	Not Tested		
Ionicity (surface active agent)	Not applicable		
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)	No data		
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 all Standard firefighting media. Use extinguishing media suitable for surrounding materials. Wear adequate personal protection.
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	Not anticipated
Degradability	Not available
Products of degradation	None anticipated
Corrosivity	Not available
Reactivity	Not anticipated

Section VI. Toxicological Properties

Routes of entry	Eye contact, Ingestion	
TLV	Refer to Section II. Hazardous Ingredients	
Toxicity to animals	LD50 (dermal) : sucrose 29.7g/kg LC50: Not available	
Chronic effects on humans	CARCINOGENIC EFFECTS MUTAGENIC EFFECTS TERATOGENIC EFFECTS DEVELOPMENTAL TOXICITY	Not available Not available Not available Not toxic
Acute effects on humans	Inhalation of enzyme mist/dust may cause allergic respiratory reactions, including asthma. ANS US Format.	
Aquatic Toxicity (LC50)	Rat LD50 > 5,000 MG/KG (DATA FROM SIMILAR CATALASE)	

Section VII. Preventive Measures

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	Contain and remove spilled product by mechanical means or with a vacuum cleaner equipped with a high efficiency filter. Avoid generation of aerosols.
Large spill and lea	Contain and remove spilled product by mechanical means or with a vacuum cleaner equipped with a high efficiency filter. Avoid generation of aerosols.
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)
	Not applicable, RQ Not available
Maritime transportation	Not pollutant
HCS	Not controlled under HCS (United States)
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. CERCLA: Hazardous substances: Not listed SARA 313 toxic chemical notification and release reporting: Not listed
International lists	Not available

Section IX. Protective Clothing

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

References	Not available
Special Test Results	Not available
CHEMTREC (24 HRS)	+1 (800) 424 9300

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