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MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Liquid Enzyme
Synonyms:
Chemical Family: Enzymatic Solution
Application: Drain Opener
Distributed By: Chem-Wipe Industries Ltd.
24 - Hour Emergency Telephone Number (CANUTEC): (613) 996 6666 - Collect Calls Accepted
*666 Cellular Service
Preparation Date of MSDS: February 22/10
Prepared By: Chem-Wipe Industries Ltd.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Components:

Ingredients	Percent	LD50s & LC50s Route & Species:
Viable Bacterial Cultures	60 - 100	Not Known

3. HAZARDS IDENTIFICATION

Potential Acute Health Effects:

Eye Contact: Dust or mist could affect eyes.
Skin Contact: N/A
Inhalation: N/A
Ingestion: N/A

4. FIRST AID MEASURES

Eye Contact: Flush with copious amounts of water for at least 15 minutes. If irritation persists, seek medical attention.
Skin Contact: Flush thoroughly with soap and water. If irritation persists, seek medical attention.
Inhalation: Obtain medical attention immediately for all exposures except minor instances of inhalations or skin contact. Remove to fresh air.
Ingestion: Do not induce vomiting. Rinse mouth with water. Drink milk or water. Get medical attention. Never give anything by mouth to an unconscious person.
Notes to Physician:

5. FIRE FIGHTING MEASURES

Flash Point (°C): No Flash Point
Flash Point Method: Boiling
Auto Ignition Temperature (°C): N/A
Flammable Limits in Air - Lower (%): N/A
Flammable Limits in Air - Upper (%): N/A
Extinguishing Media: As appropriate for surrounding fire.
Special Exposure Hazards: N/A
Special Protective Equipment: N/A
HMIS Ratings for this product are:

6. ACCIDENTAL RELEASE MEASURES

Procedure for Clean Up: Small spills should be flushed with plenty of water.
Personal Precautionary Measures: Wear rubber gloves and goggles.
Environmental Precautionary Measures:

7. HANDLING AND STORAGE

Handling: Avoid Contact with Eyes.
Storage: Store in cool dry area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Provide mechanical ventilation of confined spaces.
Respiratory Protection: Dust mask if misty conditions prevail.
Gloves: Rubber or Vinyl
Skin Protection: None required under normal use.
Eyes: Chemical Goggles
Other Personal Protection Data: Eye Bath

Hazardous Components:

Ingredients	Percent	Exposure limit - OSHA
Viable Bacterial Cultures	60 - 100	N/A

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Color: White/ Opaque
Odor: Mild
pH: 5 - 8
Specific Gravity: 1.010
Boiling Point (°C): 100 degrees C

Freezing Point (°C): 0 degrees C
 Vapor Pressure: Same as Water
 Vapor Density: Same as Water
 % Volatile by Volume: Same as Water
 Evaporation Rate: Same as Water
 Solubility: Soluble
 VOCs (lbs/gallon): N/A
 Viscosity: N/A
 Molecular Weight: N/A

10. STABILITY AND REACTIVITY

Chemical Stability: Stable
 Hazardous Polymerization: N/A
 Conditions to Avoid: N/A
 Materials to Avoid: Strong Acids or Alkalies Amy Inactive Enzymes.
 Hazardous Decomposition Products: N/A
 Additional Information:

11. TOXICOLOGICAL INFORMATION

Principle Routes of Exposure

Ingestion: Yes
 Shin Contact: Yes
 Inhalation: Yes
 Eye Contact: Yes
 Other:

Acute Test of Product:

Acute Oral LD50: N/A
 Acute Dermal LD50: N/A
 Acute inhalation LC50: N/A

None Known

Carcinogenicity:

Ingredients	Percent	Hazardous Components:				
		IARC - Group 1 (carcinogenic to humans)	IARC - Group 2A (probably carcinogenic)	IARC - Group 2B (possibly carcinogenic)	IARC - Group 3 (not classified)	IARC - Group 4 (probably not carcinogenic)
Viable Bacterial Cultures	60-100	N/A	N/A	N/A	N/A	N/A

Hazardous Components:

Ingredients	Percent	ACGIH 2000 - Carcinogens
Viabale Bacterial Cultures	60 –100	N/A
Carcinogenicity Comment:	N/A	
Genotoxicity:	N/A	
Reproductive / Developmental Toxicity:	Not Established	
Teratogenicity:	N/A	
Embryo Toxicity:	N/A	
Mutagenicity:	N/A	

12. ECOLOGICAL INFORMATION

Ecotoxicological Information:

Ingredients	Percent	Hazardous Components:		
		Ecotoxicity - Fish Species Data	Acute Crustaceans Toxicity:	Ecotoxicity - Freshwater Algae Data
Viabale Bacterial Cultures	60 –100	N/A	N/A	N/A

Other Information:

13. DISPOSAL CONSIDERATIONS

Disposal of Waste Method: Small spills flush with plenty of water. Large spills should be collected for disposal.
Contaminated Packaging: Dispose of according to local regulations.

14. TRANSPORTATION INFORMATION

TDG (Canada):

TDG Proper Shipping Name: Not Regulated
Hazard Class: Not Regulated
UN Number: N/A
Packaging Group: N/A

Note:

Marine Pollutant:

15. REGULATORY INFORMATION

Canadian DSL Inventory Status:

WHMIS Hazardous Class: D2B
Symbols:

16. OTHER INFORMATION

Additional Information:

Disclaimer:

NOTICE TO READER:

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Do not use ingredient information and/or ingredient percentages in this MSDS as a product specification. For product specification information refers to a Product Specification Sheet and/or a Certificate of Analysis.

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