MATERIAL SAFETY DATA SHEET

SECTION I – PRODUCT AND COMPANY IDENTIFICATION

Product Name: Bio Enzymatic Drain Maintainer
Product Code: 10024
Product Use: Enzymatic Drain Cleaner

Manufacturer/Supplier: Enviro-Solutions Limited
Address: 2060 Fisher Dr.,
Peterborough, ON K9J 8N4
Telephone: (705) 745-3070

HMIS Hazard Rating

HEALTH	1	0 – Insignificant
FLAMMABILITY	0	1 – Slight
REACTIVITY	0	2 – Moderate
PERSONAL PROTECTION	B	3 – High 4 - Extreme

Emergency Phone: CANUTEC (613) 996-6666

SECTION II – INFORMATION ON INGREDIENTS

Ingredients	CAS#	WT%	ACGIH-TLV	LD_{50}	LC_{50}
Water	7732-18-5	60-100	Not applicable	14,500 mg/kg (Oral, Rat)	NA
Bacteria Cultures	Mixture	1-5	Not applicable	NA	NA
Alcohol ethoxylate	NJ TRSN: 07613759-02	1-5	Not applicable	>2,000 mg/kg (Oral, Rat)	NA
Opacifier	Mixture	0.1-1	Not applicable	5,000 mg/kg (Oral, Rat)	NA
Fragrance	Mixture	0.1-1	Not applicable	>5,000 mg/kg (Oral, Rat)	NA

SECTION III – HAZARDS IDENTIFICATION

Route of Entry: Eye, skin contact, inhalation, ingestion.
Effects of Acute Exposure:
Eye Contact: May cause mild to moderate irritation upon direct contact.
Skin Contact: May cause mild to moderate irritation to those with sensitive skin.
Inhalation: No hazards under normal conditions of use. Prolonged exposure may cause nose, throat and respiratory tract irritation.
Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.
Effects of Chronic Exposure: See Section 11.

SECTION IV – FIRST AID MEASURES

Eye Contact: Flush with water for 15 minutes. Seek medical attention if irritation persists.
Skin Contact: Flush with water for 15 minutes. Seek medical attention if irritation develops.
Inhalation: Remove to fresh air and take deep, slow breaths. Seek medical attention if irritation persists.
Ingestion: Do not induce vomiting. Rinse mouth with water, then drink one glass of water. Seek medical attention if symptoms persist. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness, or is convulsing.

SECTION V – FIRE FIGHTING MEASURES

Flammability: Not flammable. **Flash Point:** (deg C, TCC): None
LEL: None **UEL:** None
Auto-Ignition Temperature: None
Hazardous Combustion Products: Oxides of carbon.
Means of Extinction: Water mist (fog), dry chemical, carbon dioxide, or foam.
Special Fire Hazards: Firefighters should wear self-contained breathing apparatus.
Explosion Data – Sensitivity to Mechanical Impact: None.
Explosion Data – Sensitivity to Static Discharge: None.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures: Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labeled containers. Product is readily biodegradable as per OECD Test Method 301D. For large quantities, dispose of in accordance with local, state/provincial and federal laws.

SECTION VII – HANDLING AND STORAGE

Storage Requirements: KEEP OUT OF REACH OF CHILDREN. Store in closed container. Store in a cool, dry, well-ventilated area away from incompatible materials.

SECTION VIII – EXPOSURE CONTROL/PERSONAL PROTECTION

Gloves: Rubber gloves may be advisable if repeated/prolonged contact may occur or for those with sensitive skin.
Eye protection: Use safety glasses when direct contact may occur.
Respiratory protection: Not normally required if good ventilation is maintained.
Other protective equipment: As required by employer code.
Engineering Controls: General ventilation normally adequate.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor: Opaque white; mild **Physical State:** Liquid
Boiling Point (°C): NE **Freezing Point (°C):** NE **% Volatile (Wt%):** NE
Specific Gravity (H_2O=1): 1.00 **pH (as supplied):** 7.20
Evaporation Rate (Water=1): Similar **Viscosity:** Water thin.
Coefficient of Water/Oil Distribution: NE **Solubility in Water:** Soluble
Vapor Pressure: NA **Vapor Density:** NA **Odor Threshold:** NE

SECTION X – STABILITY AND REACTIVITY

Conditions for Chemical Instability: Stable.
Incompatibility Materials: Strong acids or bases may inactivate cultures.
Hazardous Decomposition Products: Oxides of carbon.

SECTION XI – TOXICOLOGICAL INFORMATION

LD_{50}: Not established for this product. **LC_{50}:** Not established for this product.
This product may cause irritation to the eyes or skin upon prolonged contact.
Conditions Aggravated by Exposure: None known.
Sensitization to Product: None known.
Carcinogenicity: No ingredients listed by IARC or NTP. Non-hazardous by WHMIS standards.
Teratogenicity, Mutagenicity, Reproductive Effects: None known.
Toxicologically Synergistic Products: None known.

SECTION XII – ECOLOGICAL INFORMATION

Biodegradability: Not established for this product.
Aquatic Acute Toxicity: Not established for this product.

SECTION XIII – DISPOSAL CONSIDERATIONS

Dispose of in accordance with local state/provincial and federal regulations.

SECTION XIV - TRANSPORTATION

Special Shipping Information: Keep from freezing.
T.D.G. Classification: Not regulated under T.D.G.
D.O.T. Classification: Not regulated under D.O.T.

SECTION XV – REGULATORY INFORMATION

Occupational Health and Safety Regulations:
WHMIS Class: D2B.
OSHA & WHMIS: MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) and Canadian WHMIS regulations (Controlled Products Regulations Under the Hazardous Product Act).
Environmental Regulatory Lists:
SARA – Section 313 (Toxic Chemical Release Reporting) 40 CFR 372 – None of these ingredients are listed.
CERCLA – Section 102 (Reportable Quantity) 40 CFR 302 – None of these ingredients are listed.
RCRA 40CFR 261 (SUBPART D) – None of these ingredients are listed.
CLEAN WATER ACT – Section 311 (Reportable Quantity) 40 CFR 116 - None of these ingredients are listed.
CLEAN AIR ACT – Section 312 (List of Hazardous Air Pollutants) 40 CFR 63 (Subpart C) – None of these ingredients are listed.
National Pollutant Release Inventory – None of the ingredients are listed.
Toxic Substances Control Act (TSCA) – All the ingredients are registered on the Chemical Substance Inventory.
Canadian Domestic Substance List (DSL) – All the ingredients are registered on the DSL.

SECTION XVI – OTHER INFORMATION

Date: October 31, 2008
Prepared by: Technical Services Group **Telephone:** (705) 745-3070

NA: Not Available NE: Not Established

Disclaimer
Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages, which may result from the use of or reliance on any information contained in this form. If user requires independent information on ingredients in this or any other material, we recommend contact with the Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (905-572-4400), or CSST in Montreal, Quebec (514-873-3990).