



## MATERIAL SAFETY DATA SHEET

### SECTION I – PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Bio Odor Control & Digester  
**Product Code:** ES60  
**Product Use:** Odor Control  
  
**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 <sub>50</sub>	LC <sub>50</sub>
Water	7732-18-5	60-100	Not applicable	14,500 mg/kg (Oral, Rat)	NA
Sodium alpha-olefin sulfonate	68439-57-6	0.1-1	Not applicable	3,900 mg/kg (Oral, Rat)	NA
Bacterial spores	Mixture	0.1-1	Not applicable	NA	NA
Alcohol alkoxylates	68131-39-5	0.1-1	Not applicable	2,000 mg/kg (Oral, Rat)	NA
Propylene glycol	57-55-6	0.1-1	Not applicable	18,300 mg/kg (Oral, Rat)	NA
Tetrasodium ethylenediaminetetraacetate	64-02-8	0.1-1	Not applicable	1,658 mg/kg (Oral, Rat)	NA
Styrene-acrylic polymer	Mixture	0-0.1	Not applicable	NA	NA
Dimethyl siloxanes and silicones	Mixture	0-0.1	Not applicable	NA	NA
Sodium tetraborate pentahydrate	12179-04-3	0-0.1	Not applicable	2,660 mg/kg (Oral, Rat)	NA
Fragrance	Mixture	0-0.1	Not applicable	NA	NA

### SECTION III – HAZARDS IDENTIFICATION

**Route of Entry:** Eye, skin contact, inhalation, ingestion.

**Effects of Acute Exposure:**

**Eye Contact:** May cause mild irritation upon direct contact.

**Skin Contact:** May cause mild 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.

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## SECTION V – FIRE FIGHTING MEASURES

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**Flammability:** Not flammable.      **Flash Point:** (deg C, TCC): None  
**LEL:** None      **UEL:** None  
**Auto-Ignition Temperature:** None  
**Hazardous Combustion Products:** Oxides of carbon and nitrogen.  
**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.

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## SECTION VI – ACCIDENTAL RELEASE MEASURES

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**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.

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## SECTION V II – HANDLING AND STORAGE

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

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## SECTION VIII – EXPOSURE CONTROL/PERSONAL PROTECTION

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**Gloves:** Wear rubber gloves when handling.  
**Eye protection:** Use safety glasses when handling.  
**Respiratory protection:** Not normally required if good ventilation is maintained.  
**Other protective equipment:** As required by employer code.  
**Engineering Controls:** General ventilation normally adequate.

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## SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance/Odor:</b> White; floral.	<b>Physical State:</b> Liquid
<b>Boiling Point (°C):</b> NE <b>Freezing Point (°C):</b> NE	<b>% Volatile (Wt%):</b> 96
<b>Specific Gravity (H<sub>2</sub>O=1):</b> 1.01	<b>pH (as supplied):</b> 9.40
<b>Evaporation Rate (Water=1):</b> Similar	<b>Viscosity:</b> Water thin.
<b>Coefficient of Water/Oil Distribution:</b> NE	<b>Solubility in Water:</b> Dispensible.
<b>Vapor Pressure:</b> NA <b>Vapor Density:</b> NA	<b>Odor Threshold:</b> NE

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## SECTION X – STABILITY AND REACTIVITY

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**Conditions for Chemical Instability:** Stable.  
**Incompatibility Materials:** May react with acids and strong oxidizing agents.  
**Conditions of reactivity:** NE  
**Hazardous Decomposition Products:** Oxides of carbon and nitrogen.

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## SECTION XI – TOXICOLOGICAL INFORMATION

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**LD<sub>50</sub>:** Not established for this product.      **LC<sub>50</sub>:** 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.

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## SECTION XII – ECOLOGICAL INFORMATION

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

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## SECTION XIII – DISPOSAL CONSIDERATIONS

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

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## SECTION XIV - TRANSPORTATION

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

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## SECTION XV – REGULATORY INFORMATION

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### 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.

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## SECTION XVI – OTHER INFORMATION

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**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).