



SECTION I – PRODUCT AND COMPANY IDENTIFICATION

Product Name: BIO Solutions 230
Product Code: ES230
Product Use: Urinal cleaning deodorizing blocks

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

HMIS Hazard Rating

HEALTH	2	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
Sodium sulfate	7757-82-6	30-60	Not applicable	>5.989 mg/kg (Oral, Mouse)	NA
Fatty acid sodium salts	85408-69-1	10-30	Not applicable	>3,000 mg/kg (Oral, Rat)	NA
Cocamide MEA	68140-00-1	3-7	Not applicable	12,400 µL/kg (Oral, Rat)	NA
Fragrance	Mixture	3-7	Not applicable	NA	NA
Bacterial culture	Mixture	0.5-1.5	Not applicable	NA	NA

SECTION III – HAZARDS IDENTIFICATION

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

Effects of Acute Exposure:

Eye Contact: May cause irritation.

Skin Contact: May cause irritation. May cause dermatitis.

Ingestion: Irritation of the gastrointestinal tract and may result in nausea and diarrhea.

Effects of Chronic Exposure: See Section 11.

SECTION IV – FIRST AID MEASURES

Eye Contact: Flush with water for 15 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. 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. If not breathing, give artificial respiration. Seek medical attention if irritation persists.

Ingestion: Do not induce vomiting. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness, or is convulsing. Rinse mouth with water, then drink one glass of water. Seek medical attention if symptoms persist.

SECTION V – FIRE FIGHTING MEASURES

Flammability: Not flammable

Flash Point: (deg C, TCC): None

LEL: Not applicable

UEL: Not applicable).

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 appropriate protective equipment and self-contained breathing apparatus with a full face operated in positive pressure mode.

Explosion Data – Sensitivity to Mechanical Impact: None.

Explosion Data – Sensitivity to Static Discharge: None.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal precautions: Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the authorities if the product generated an environmental pollution (sewers, inland waterways, ground or air)

Leak and spill procedure: Absorb with an inert dry material and place in an appropriate waste disposal container. If necessary, neutralize the residue with a dilute solution of acetic acid (vinegar).

SECTION VII – HANDLING AND STORAGE

Storage Requirements: KEEP OUT OF REACH OF CHILDREN, store in a cool, well ventilated area: do not freeze; or expose for a long period of time to direct sunlight or strong incandescent light. Colors may change slightly overtime due to the food, drug and cosmetic dyes that are used in this product.

SECTION VIII – EXPOSURE CONTROL/PERSONAL PROTECTION

Gloves: Rubber, vinyl or latex.

Eye protection: Safety glasses.

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: Dark blue; Lemon.

Boiling Point (°C): NE

Specific Gravity (H₂O=1): NA

Evaporation Rate (Water=1): NE

Coefficient of Water/Oil Distribution: NE

Vapor Pressure: NA

Freezing Point (°C): NE

VOC (g/L): NE

pH (as supplied): Not applicable.

Viscosity: Not applicable.

Solubility in Water: Miscible at 20°C

Vapor Density: NA

Physical State: Solid

% Volatile (Wt%): NE

pH (as supplied): Not applicable.

Viscosity: Not applicable.

Solubility in Water: Miscible at 20°C

Odor Threshold: NE

SECTION X – STABILITY AND REACTIVITY

Conditions for Chemical Instability: Stable.

Incompatibility Materials: None.

Conditions of reactivity: NA

Hazardous Decomposition Products: Oxides of carbon and nitrogen.

SECTION XI – TOXICOLOGICAL INFORMATION

LD₅₀: Not established for this product.

LC₅₀: Not established for this product.

This product may cause irritation to the eyes or skin. May cause dermatitis upon prolonged contact and repeated contact.

Conditions Aggravated by Exposure: None known.

Sensitization to Product: None known.

Carcinogenicity: No ingredients listed by IARC, OSHA, EU, ACGIH or NTP. Non-hazardous by WHMIS standards.

Teratogenicity, Mutagenicity, Reproductive Effects: NA.

Toxicologically Synergistic Products: NA.

SECTION XII – ECOLOGICAL INFORMATION

Biodegradability: Not established for this product.

Aquatic Acute Toxicity: Not established for this product.

SECTION XIII – DISPOSAL CONSIDERATIONS

Dispose of material according to regional, provincial/state and federal regulations.

SECTION XIV - TRANSPORTATION

Special Shipping Information: NA.

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: Not regulated.

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: August 8, 2014

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).