MATERIAL SAFETY DATA SHEET

SECTION I – PRODUCT AND COMPANY IDENTIFICATION

Product Name:	ES84C RTU	**Product Use:**	Floor Cleaner
Manufacturer:	Enviro-Solutions Limited	**Supplier:**	
Address:	2060 Fisher Dr., Peterborough, ON K9J 8N4	**Address:**	
Telephone:	(705) 745-3070	**Telephone:**	

Emergency Phone: CANUTEC (613) 996-6666

SECTION II – INFORMATION ON INGREDIENTS

Ingredients	CAS#	Wt%	OSHA-PEL	ACGIH-TL	LD_{50}
Water	7732-18-5	60-100	Not available	Not available	14,500 mg/kg (oral, rat)
Sodium citrate	68-04-2	0-1	Not available	Not available	1,548 mg/kg (i.p., rat)
Alcohol alkoxylates	68551-13-3	0-1	Not available	Not available	Not available
Anionic surfactant	102900-02-07	0-1	Not available	Not available	>5,000 mg/kg (oral, rat)
Alkyl ester	NJ TRSN :07613294-01	0-1	Not available	Not available	>2,000 mg/kg (oral, rat)
Fragrance	Mixture	0-1	Not applicable	Not applicable	>5,000 mg/kg (oral, rat)
Propylene glycol	57-55-6	0-1	Not available	Not available	20,000 mg/kg (oral, rat)
Ethanol	64-17-5	0-1	1000 ppm TWA	1000 ppm TWA	7,060 mg/kg (oral, rat)
Dimethyl siloxanes & silicones	Mixture	0-1	Not available	Not available	Not available
Tartrazine	1934-21-0	0-1	Not applicable	Not applicable	>1,000 mg/kg (oral, rat)

SECTION III – HAZARDS IDENTIFICATION

Route of Entry: Eye, skin contact, inhalation, ingestion.
Potential Health Effects:
Eye Contact: May cause moderate to high irritation.
Skin Contact: May cause moderate to high irritation.
Inhalation: No hazards under normal conditions of use. Prolonged exposure may cause nose, throat and respiratory tract irritation.
Ingestion: May cause vomiting, headache and medical problems.
Chronic Effects/Carcinogenicity:
Carcinogenicity: No ingredients listed by IARC or NTP.

SECTION IV – FIRST AID MEASURES

Eye Contact: Flush with water for 15 minutes. Seek medical attention if irritation persists.
Skin Contact: Flush with water. 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.

SECTION V – FIRE FIGHTING MEASURES

Flammability: Not flammable **Flash Point:** None to 95°C
Hazardous Combustion Products: Oxides of carbon.
Means of Extinction: Treat for surrounding material.
Special Fire Hazards: None known to us at this time.

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. For large quantities, dispose of in accordance with local, state/provincial and federal laws.

SECTION V II – HANDLING AND STORAGE

Storage Requirements: KEEP OUT OF REACH OF CHILDREN. Store in closed container. Store away from incompatible materials. Keep away from sources of ignition- No smoking.

SECTION VIII – EXPOSURE CONTROL/PERSONAL PROTECTION

Gloves: If prolonged/repeated contact can occur, use protective gloves.
Eye protection: Where direct eye contact may be a problem, use chemical splash goggles.
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

Boiling Point (deg C): 93 **Specific Gravity (H_2O=1):** 1.005 **Evaporation Rate (Water=1):** Similar
% Volatile (Wt%): >50 **Solubility in water:** Soluble **pH (as supplied):** 7.0
Physical State: Liquid **Viscosity:** Water thin
Appearance/Odor: Yellow, natural fragrance.

SECTION X – STABILITY AND REACTIVITY

Conditions for Chemical Instability: Stable
Incompatibility Materials: Strong oxidizing agents.
Hazardous Decomposition Products: Oxides of carbon.

SECTION XI – TOXICOLOGICAL INFORMATION

The calculated LD_{50} of the product is 8,200 mg/kg (oral, rat). This product will be irritating to the eyes or skin upon direct and prolonged contact.

SECTION XII – ECOLOGICAL INFORMATION

Biodegradability: All organic ingredients of this formula have been tested by an independent laboratory and all are readily biodegradable as measured by OECD Test Method 301D. This measures biodegradability under load and in simulated real life conditions.
Aquatic Acute Toxicity:

Results exceed standards set by recognized testing authorities for green products.

SECTION XIII – DISPOSAL CONSIDERATIONS

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

SECTION XIV - TRANSPORTATION

T.D.G. Classification: Not regulated under TDG
D.O.T. Classification: Not regulated under DOT

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.

SECTION XVI – OTHER INFORMATION

Date: Dec. 16, 2005 **Prepared by:** Technical Services Group **Telephone:** (705) 745-3070

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).