




# Material Safety Data Sheet

Product Name: De-Scaler Enviro Plus Code: 0140

<b>WHMIS</b>	<b>Protective Clothing</b>	<b>TDG Road / Rail</b>
		

## SECTION I – PRODUCT IDENTIFICATION AND PREPERATION INFORMATION

**Product Name:** De-Scaler Enviro Plus **Effective Date:** Mar. 11, 10 **Code:** 0140  
**Product Use:** Acid based cleaner and descaler.  
**WHMIS:** WHMIS Class D-2B: Material causing other toxic effects (TOXIC).  
 WHMIS Class E: Corrosive liquid.  
**TDG:** TDG CLASS 8: CORROSIVE LIQUID  
 TDG CLASS 9.2: Environmentally hazardous material.  
**Manufacturer:** Allspar Solutions Inc. **Supplier:** Bay City Sanitation  
 150 Connie Crescent, Unit 12 189 Brock Street  
 Concord, Ont. L4K 1L9 Barrie, Ontario L4M 5E1  
 (705) 728-4332

**EMERGENCY PHONE: CANUTEC (613) 996-6666**

## SECTION II – HAZARDOUS INGREDIENTS

Ingredients	CAS #	Wt%	ACGIH-TLV	LC <sub>50</sub> /LD <sub>50</sub>
Organic Salt	506-89-8	15-30	Not available.	96 hour LC0 >140 mg/L (rainbow trout) , 48 hour LC50 71.1 mg/L (ceriodaphnia dubia), 15 minute IC50, 16.23% effect at a concentration of 10 mg/L (Vibrio fischeri, 4H6002)

## SECTION III – PHYSICAL DATA

<b>Boiling Point:</b>	100°C (212°F)	<b>Specific Gravity:</b>	Weighted average: 1.10 (Water = 1.00)
<b>Vapour Pressure:</b>	Same as water.	<b>Vapour Density:</b>	1 (Air=1).
<b>Solubility in Water:</b>	Complete	<b>Percent Volatile:</b>	Not available.
<b>Physical State:</b>	Liquid	<b>Evaporation Rate:</b>	Not available.
<b>Appearance and Odour:</b>	Clear / Deodorizer fragrance.	<b>pH (as supplied):</b>	<2.5 (acidic)

## SECTION IV – FIRE AND EXPLOSION DATA

<b>Flammability:</b>	Non-flammable
<b>Flash Points:</b>	Not applicable.
<b>Flammable Limits:</b>	Not applicable.
<b>Hazardous Combustion Products:</b>	Thermal decomposition may yield oxides of carbon, nitrogen, and chlorine. Hydrogen gas may be released upon contact with certain metals.
<b>Means of Extinction:</b>	Use extinguishing media suitable for surrounding materials.
<b>Special Fire Hazards:</b>	Evacuate personnel to a safe area. Keep containers cool with water spray. Avoid breathing decomposition products. Wear self-contained breathing apparatus and full body protection.
<b>Unusual Fire and Explosion Hazards:</b>	At temperatures above 60°C/140°F acid action on most metals may release hydrogen, a highly flammable and explosive gas.

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## SECTION V – REACTIVITY DATA

<b>Stability:</b>	Stable up to 110°C / 230°F
<b>Incompatibility:</b>	Avoid contact with oxidizers. This material may be extremely hazardous in contact with chlorates or nitrates. This material is acidic. Contact with hypochlorites (e.g. chlorine bleach, sulfides, or cyanides will liberate toxic gases. Contact with alkaline materials (e.g. aqua ammonia) will generate heat.
<b>Hazardous Decomposition Products:</b>	Thermal decomposition may yield oxides of carbon, nitrogen, and chlorine. Hydrogen gas may be released upon contact with certain metals.

## SECTION VI – TOXICOLOGICAL PROPERTIES

<b>Routes of Entry:</b>	Eye contact. Ingestion.
<b>Acute Effects on Humans:</b>	<b>Eye:</b> Causes burns to the eyes. <b>Acute eye irritation/corrosion test:</b> This product was found to be Corrosive to the eyes when tested using the Modified Draize method (OECD Guidelines for Testing of Chemicals, Sec. 4-5, 1992.) <b>Skin:</b> Prolonged or repeated contact can cause irritation. <b>Non Corrosive to Skin:</b> (as defined and tested in accordance with the U.S. OSHA's Hazard Communication Standard, DOT Hazardous Material Regulations, Canada's WHMIS regulations and TDG Regulations. Classified as a mild skin irritant as per the 1992 OECD Guideline for Testing of Chemicals, Number 404 "Acute Dermal Irritation/Corrosion.") <b>Ingestion:</b> This product may be harmful or fatal if ingested. <b>Inhalation:</b> Not a likely route of exposure due to physical properties. Product has a low vapour pressure at room temperature and is not expected to present a significant inhalation hazard under ambient conditions. Product can be irritating to the respiratory tract if inhaled as a mist or if the material is vaporized.
<b>Chronic Effects on Humans:</b>	CARCINOGENIC: Non-hazardous by WHMIS/OSHA criteria. Not listed by IARC, NTP, or ACGIH. <b>Teratogenicity, Mutagenicity, Reproductive Effects:</b> This product was found not to be mutagenic when tested by the Ames Assay, (OECD Guidelines for Testing of Chemicals, Sec. 471) <b>Skin:</b> Prolonged or repeated exposure can cause drying, defatting, and dermatitis. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.
<b>Synergistic Materials:</b>	Not available.

## SECTION VII – PREVENTATIVE MEASURES

<b>Gloves:</b>	Seamless Neoprene.
<b>Eye Protection:</b>	Splash goggles.
<b>Respiratory Protection:</b>	Not normally required when used as directed.
<b>Other Protective Equipment:</b>	Suggested protective clothing may not be sufficient, consult a specialist BEFORE handling this product.
<b>Engineering Controls:</b>	General ventilation normally adequate. Ensure that eyewash stations and safety showers are proximal to the workstation location.
<b>Leak and Spill Procedure:</b>	Evacuate area. Ventilate area. Collect for disposal. Clean up remaining materials from spill with suitable absorbent. Small spills may be absorbed with non-reactive absorbent (sand) and placed in suitable, covered, labeled containers. For large spills provide diking or other appropriate containment to keep material from spreading. Prevent large spills from entering sewers or waterways. If diked material can be pumped, store recovered material in compatible drums for recovery or disposal. Observe all personal protection equipment recommendations.
<b>Waste Disposal:</b>	Consult municipal, provincial, and federal laws.
<b>Storage Requirements:</b>	<b>Keep Out Of Reach Of Children.</b> Keep container tightly closed. Store in fiberglass, polyethylene, or polypropylene containers. Do not store in metal containers, especially aluminum. Storage in certain metal containers at temperatures above 60°C/140°F may result in hydrogen gas evolution. Do not store at temperatures above 48°C/120°F.

## SECTION VIII – FIRST AID

<b>Eye:</b>	Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. COLD water may be used. DO NOT use any eye ointment. Seek medical attention.
<b>Skin:</b>	Immediately flush with mild soap and water for 15 minutes. Seek medical attention if irritation develops. Remove contaminated clothing and launder before reuse.
<b>Inhalation:</b>	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and seek medical attention.
<b>Ingestion:</b>	DO NOT induce vomiting. Drink three glasses cold water. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt, or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

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## SECTION IX – PREPERATION / OTHER INFORMATION

**References:** Not available.

**Additional Remarks:** No additional remark.

Validated by Allspar Solutions Inc. on March 11, 2010

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