

Safety data sheet: **PRE GRIND**

According to 1907/2006/EC, Article 31 *Interior & Exterior*

SECTION 1 CONTACT INFORMATION

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TRADE NAME:	ECOGUARD (1) Pre-Grind	NPCA HMIS RATINGS:
PRODUCT CLASS:	Biodegradable Concrete Cleaner & Degreaser Solution	Health: 2 Flammability: 0
PRODUCT APPEARANCE & ODOR:	Clear green liquid with pleasant mild odor	Reactivity: 0 Personal Protection: C - gloves and goggles

SECTION 2: INGREDIENTS

ECOGAURD (1) Pre-Grind contains a Non hazardous organic salt component which is considered proprietary trade secret information. This product contains no hydrochloric, phosphoric, or related inorganic acids. Specific chemical identities will be made available to medical professionals and others as required by 29 CFR 1910.2100 (j) (iv). Refer to Section 5 for additional Health Hazard information

SECTION 3: PHYSICAL DATA

The following data represents approximate or typical values. They do not constitute product specifications

VAPOR PRESSURE	<0.1 mm Hg (@ 20 ° C)	BOILING POINT:	100 ° C / 212 ° F
EVAPORATION RATE:	<1 (Slower than Butyl Acetate)	% VOLATILE BY VOLUME:	Approximately 50% ave..
WEIGHT PER GALLON:	Approx. 9.21 lb/gal +/- 0.10	pH:	Varies from 3.25 +/- 0.20
SPECIFIC GRAVITY	Approx. 1.15 – Concentrate and 1.08 lb./gal Ready To Use	V.O.C.:	This product contains no Volatile Organic Compounds
FREEZE POINT:	< -18 ° C / 0° F	SOLUBILITY:	100% Soluble in water

SECTION 4: FIRE AND EXPLOSION DATA

FLAMMABILITY CLASS:	Not flammable (aqueous solution)
FLASH POINT:	Does not ignite
AUTOIGNITION TEMPERATURE:	N.A.
LOWER EXPLOSIVE LIMIT:	N.A.
SENSITIVITY TO STATIC DISCHARGE:	N.A.
EXTINGUISHING MEDIA:	Carbon dioxide, foam, dry chemical, water spray.
UNUSUAL FIRE AND EXPLOSION HAZARD	Material can splatter above 100 C / 212 F. Dried solids can burn, giving off oxides of carbon and nitrogen.
SPECIAL FIRE FIGHTING PROCEDURES:	Use air supplied rescue equipment for closed areas. Cool exposed containers with water.

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SECTION 5: HEALTH HAZARD DATA

EMERGENCY OVERVIEW:	This product is corrosive to the eyes but is considered only a mild skin irritant. If ingested, this product may be harmful or fatal.
EFFECTS OF EXPOSURE:	
EYE CONTACT :	This product was found to be corrosive to eyes when tested using modified Draize method (OECD guidelines for testing chemicals, Sec. 4-5, 1992)
SKIN CONTACT:	Prolonged or repeated contact may cause irritation or reddening of the skin. <u>Non corrosive</u> to the skin 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 per the 1992 OECD Guideline for Testing of Chemicals, Number 404 "Acute Dermal Irritation/Corrosion".
INHALATION:	Not a likely route of exposure due to physical properties. Product has a very low vapor pressure at room temperature and is not expected to present an inhalation hazard under ambient conditions
INGESTION:	This product may be harmful or fatal if ingested.
CARCINOGENICITY:	Non hazardous by WHMIS/OSHA criteria. Not listed by IARC, NTP, or ACGIH.

SECTION 6: EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT:	Flush eyes with large amounts of water until irritation subsides. Seek medical attention if necessary.
SKIN CONTACT:	Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists. Remove contaminated clothing and launder before re-use.
INHALATION:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and seek medical attention.
INGESTION:	If swallowed, <u>do not</u> induce vomiting. If conscious, give 3-4 glasses of water to dilute and get immediate medical care. Never give anything by mouth to an unconscious person.

SECTION 7 REACTIVITY DATA

STABILITY:	Product is considered stable at regular temperatures.
CONDITIONS TO AVOID:	Avoid temperatures above 110C (230F), results in an exothermic decomposition with release of CO2 gas.
INCOMPATIBILITY (MATERIALS TO AVOID):	Avoid contact with oxidizers. This product may be hazardous in contact with chlorates or nitrates. Avoid contact with hypochlorites (e.g. chlorine bleach), sulfides, or cyanides which can liberate toxic gases. Contact with alkaline materials (ammonia) will generate heat.
HAZARDOUS DECOMPOSITION PRODUCTS:	Thermal decomposition may yield , but not limited to oxides of carbon and nitrogen and chlorine. Hydrogen gas may be released upon contact with certain metals.
HAZARDOUS POLYMERIZATION:	Will not occur.

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SECTION 8: ACCIDENTAL RELEASE & DISPOSAL MEASURES

LEAK AND SPILL PROCEDURE:	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 a suitable, covered, labeled container. Prevent spills from entering sewers or waterways. Observe all personal protection equipment recommendations.
WASTE DISPOSAL:	Dispose of in accordance with local, state and federal regulations.

SECTION 9: SAFE HANDLING AND USE INFORMATION:

RESPIRATORY PROTECTION:	Not normally required with this product.
VENTILATION/ ENGINEERING CONTROLS:	Not normally required
PROTECTIVE GLOVES:	Use impervious (rubber or nitrile) gloves
EYE PROTECTION:	Use chemical safety/splash goggles
OTHER PROTECTIVE EQUIPMENT:	Impervious clothing or boots, if needed.
HANDLING PROCEDURES:	The usual precaution for the handling of chemicals must be observed.
DEPT. OF LABOR STORAGE CATEGORY:	Not regulated
STORAGE CONDITIONS:	Store under cool, dry conditions and away from temperature extremes. The minimum recommended storage temperature for this material is 1 C/34F. The maximum recommended storage temperature is 49C/120F. Keep from freezing. If frozen, product is stable, however, it needs to re-thawed and mixed before using. Do not store in metal or aluminum containers, only use plastic (polyethylene, or polypropylene).
WORKPLACE CLASSIFICATION:	This product as supplied is non-hazardous under the OSHA Hazard Communication Standard (20 CFR 1910.1200).

SECTION 10: TOXICOLOGICAL INFORMATION

CARCINOGENITY:	Non hazardous by WHMIS/OSHA criteria. Not listed by IARC, NTP, or ACGIH.
TETRAOGENICITY, MUTAGENICTY, REPRODUCTIVE EFFECTS	This product was found <u>not</u> to be mutagenic when tested by the Ames Assay method (OECD guidelines for testing chemicals, Sec. 471).
ACUTE EYE IRRITATION/CORROSION TEST:	This product was found to be corrosive to eyes when tested using modified Draize method (OECD guidelines for testing chemicals, Sec. 4-5, 1992)

SECTION 11: ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE:	Organic salt base is known to be biodegradable
FISH, ACUTE TOXICITY TEST, OECD 203	48 hour, LC50 >71 mg/L (ceriodaphnia dubia)

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SECTION 12: TRANSPORT AND SHIPPING INFORMATION

U.S. DEPT. OF TRANSPORTATION -ROAD OR RAIL:	NOT REGULATED
U.S. DEPT. OF TRANSPORTATION - PROPER SHIPPING NAME:	Concrete Cleaning Solution
CANADIAN T.D.G.:	Corrosive Liquid, N.O.S. Contains urea monohydrochloride Hazard Class 8, ID# UN1760, Packing Group III. Note- This material is corrosive to Aluminum only. Non-Corrosive to skin and mild steel.
IMO WATER TRANSPORTATION:	Corrosive Liquid, N.O.S. Contains urea monohydrochloride Hazard Class 8, ID# UN1760, Packing Group III. Note- This material is corrosive to Aluminum only. Non-Corrosive to skin and mild steel.
IATA AIR TRANSPORTATION:	Corrosive Liquid, N.O.S. Contains urea monohydrochloride Hazard Class 8, ID# UN1760, Packing Group III. Note- This material is corrosive to Aluminum only. Non-Corrosive to skin and mild steel.

SECTION 13: REGULATORY INFORMATION

OCCUPATIONAL HEALTH & SAFETY REGULATIONS:

WHMIS CLASSIFICATION	Class D-Division 2B, Class E. Note- This material is corrosive to Aluminum only. Non-Corrosive to skin and mild steel.
OSHA & WHMIS:	MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) and Canadian WHMIS regulations (Controlled Products Regulations under the Hazardous Products Act).

ENVIRONMENTAL REGULATORY LISTS:

SARA TITLE III, SECTION 313:	(Toxic Chemical Release Reporting) 40 CFR 372- None of the ingredients are listed.
TSCA (TOXIC SUBSTANCES CONTROL ACT):	All the ingredients are listed on the Chemical Substance Inventory
CANADIAN DSL:	All ingredients are listed.
INTERNATIONAL INVENTORY LISTINGS:	Components in this product are listed on the Australian AICS
CALIFORNIA PROPOSITION 65:	The following components of this product are substances, or belong to classes of substances, known to the state of California to cause cancer and/or reproductive toxicity: Chemical Name: None