

MATERIAL SAFETY DATA SHEET

SECTION I – PRODUCT AND COMPANY IDENTIFICATION

Product Name: Citric Power Alkaline Cleaner/Degreaser **Product Use:** Heavy Duty Cleaner/Degreaser
10006/10007
Manufacturer: Enviro-Solutions Limited **Supplier:**
Address: 2060 Fisher Dr., **Address:**
Peterborough, ON K9J 8N4
Telephone: (705) 745-3070 **Telephone:**
Emergency Phone: CANUTEC (613)-996-6666

SECTION II – INFORMATION ON INGREDIENTS

Ingredients	CAS#	Wt%	OSHA-PEL	ACGIH-TLV	LD ₅₀
d-Limonene	5989-27-5	1-5	Not available	Not available	4,400 mg/kg (oral, rat)
1-Butoxypropanol	29387-86-8	0.5-1.5	Not available	Not available	3,300 mg/kg (oral, rat)
Alcohol alkoxylates	NJ TSNR 07613759-02	1-5	Not available	Not available	>2,000 mg/kg (oral, rat)
Water	7732-18-5	80-90	Not available	Not available	14,500 mg/kg (oral, rat)
Alkyl dimethyl oxide	61788-90-7	0-1	Not available	Not available	4,610 mg/kg (oral, rat)
Sodium citrate dihydrate	68-04-2	1-5	Not available	Not available	1,548 mg/kg (i.p., rat)
Sodium metasilicate	6834-92-0	1-5	Not available	Not available	800 mg/kg (oral, rat)
D&C Orange #4	633-96-5	0-1	Not available	Not available	Not available

SECTION III – HAZARDS IDENTIFICATION

Route of Entry: Eye, skin contact, inhalation, ingestion.
Potential Health Effects:
Eye Contact: May cause severe burns and ulceration.
Skin Contact: May cause severe irritation. May cause burns or ulceration upon repeated/prolonged contact. Skin contact with product may not produce immediate pain.
Inhalation: May cause nose, throat and respiratory tract irritation.
Ingestion: May cause burns and/or perforation of the gastrointestinal tract.
Chronic Effects/Carcinogenicity:
Carcinogenicity: No ingredients listed by IARC or NTP. Non-hazardous by WHMIS standards.
Skin: Contains a potential skin sensitizer (d-Limonene). Prolonged or repeated exposure to dilutions can cause drying, defatting and dermatitis.

SECTION IV – FIRST AID MEASURES

Eye Contact: Immediately flush with water for 15 minutes. Seek medical attention.
Skin Contact: Immediately flush with water for 15 minutes. Seek medical attention if irritation persists.
Inhalation: Move victim to fresh air. If conscious, have victim take deep, slow breaths. Seek medical attention if symptoms persist.
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 by WHMIS criteria. **Flash Point (deg C, TCC):** None
Hazardous Combustion Products: Oxides of carbon, oxides of nitrogen.
Means of Extinction: Water, dry chemical, carbon dioxide, or foam.
Special Fire Hazards: Firefighters should wear self-contained breathing apparatus.

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 VII – HANDLING AND STORAGE

Storage Requirements: KEEP OUT OF REACH OF CHILDREN. Store in closed container. Store away from incompatible materials.

SECTION VIII – EXPOSURE CONTROL/PERSONAL PROTECTION

Gloves: Protective gloves.
Eye protection: Chemical splash goggles.
Respiratory protection: Not normally required if good ventilation is maintained. If mist is generated during application process, use disposable mist respirator.
Other protective equipment: As required by employer code.
Engineering Controls: General ventilation normally adequate.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (deg C): 94 **Specific Gravity (H₂O =1):** 1.04 **Evaporation Rate (Water=1):** Similar
% Volatile (Wt%): 90.4 **Solubility in water:** Complete **pH (as supplied):** 12.8
Physical State: Liquid **Viscosity:** Slightly viscous
Appearance/Odor: Clear, orange, faint odor

SECTION X – STABILITY AND REACTIVITY

Conditions for Chemical Instability: Stable
Incompatible Materials: Strong oxidizing agents, strong acids.
Hazardous Decomposition Products: Oxides of carbon, oxides of nitrogen when heated.

SECTION XI – TOXICOLOGICAL INFORMATION

The calculated LD₅₀ of the product is 7,200 mg/kg (oral, rat). This product may be corrosive to the skin or eyes. This product may cause eye corrosion with corneal or conjunctival ulceration. Prolonged skin contact may result in burns or ulceration.

SECTION XII – ECOLOGICAL INFORMATION

Biodegradability: Butoxypropanol and surfactant in this formula are readily biodegradable per OECD Test Method 301D.

SECTION XIII – DISPOSAL CONSIDERATIONS

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

SECTION XIV - TRANSPORTATION

T.D.G. Classification: Corrosive Liquids, N.O.S. (Sodium metasilicate); Class 8; UN1760; PGII
D.O.T. Classification: Corrosive Liquids, N.O.S. (Sodium metasilicate); Class 8 UN1760; PGII

SECTION XV – REGULATORY INFORMATION

Occupational Health and Safety Regulations:
WHMIS Class: D2B, E
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: 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 for 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 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).