

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT IDENTIFICATION

Product Name: **CL1000 XF**

Product Use: Degreaser
WHMIS Class: D2B, E

TDG Classification: Class 8
UN Number: UN3266, group II
T.D.G. Shipping Name: CORROSIVE LIQUID BASIC, INORGANIC, N.O.S. (potassium hydroxide).

Manufactured by:
Chemotec (PM) Inc.
8820 Place Ray Lawson
Anjou, Quebec, Canada H1J 1Z2
Telephone: (514) 729-6321; 1-800-729-6321

Emergency Phone: as above or call CANUTEC (613) 996-6666 in case of **chemical emergency only.**

SECTION 2: HAZARDOUS INGREDIENTS

<u>Ingredients</u>	<u>CAS #</u>	<u>Wt %</u>	<u>TLV</u>	<u>LC₅₀</u>	<u>LD₅₀</u>
2-Butoxyethanol	111-76-2	5 - 10	25 ppm	450ppm/4h(rat)	1480 mg/kg (oral, rat)
Ethoxylated alcohol	68131-39-5	1 - 5	n/a	n/a	2000 mg/kg (oral, rat)
Potassium hydroxide	1310-58-3	1 - 5	2 mg/m ³	n/a	273 mg/kg (oral, rat)

SECTION 3: PHYSICAL DATA

Boiling Point (°C): 100
Vapor Pressure (mm Hg): 20
Vapor Density (Air = 1): 0.6 (water)
Solubility in Water: Complete
Physical State: Liquid
Appearance and Odor: Purple or yellow liquid, solvent odor.

Specific Gravity (H₂O = 1): 1.03 at 20 °C
% Volatile (Wt %): 85 - 90
Evaporation Rate (nBuAc = 1): 0.4 (water)
pH (as supplied): 12 - 13
Viscosity: < 200 cps at 25 °C
Odor Threshold (ppm): n/a

SECTION 4: FIRE AND EXPLOSION DATA

Flammability: Not flammable, not combustible.

Flash Point (TCC, °C): > 93.3 LEL: Not applicable UEL: Not applicable

Hazardous Combustion Products: Smoke, carbon oxides.

Autoignition Temperature (°C): Not applicable.

Means of Extinction: Water, foam, dry chemicals, carbon dioxide.

Special Fire Hazards: A stream of water directed into the product generates a lot of foam.

SECTION 5: REACTIVITY DATA

Conditions for Chemical Instability: This product is stable under normal conditions. It does not polymerize.

Incompatible Materials: Strong oxidizing agents, strong acids.

Reactivity and Under What Conditions: May evolve heat, violent reaction with acids, in contact with reactive metals like zinc and aluminum, a reaction will occur.

Hazardous Decomposition Products: None.

SECTION 6: TOXICOLOGICAL PROPERTIES

Route of Entry: Eyes, skin, ingestion, inhalation.

EFFECTS OF ACUTE EXPOSURE:

Eye: Irritant. Extremely corrosive product.

Skin: Irritant. Severe irritation and burns on skin. Necrosis of cutaneous tissues.

Ingestion: Violent pain in throat, mouth, gut, esophagus and/or stomach perforation, collapse, death.

Inhalation: Breathing high concentration may cause headache, nausea, vomiting, dizziness, may cause irritation and severe burns of superior respiratory tract.

EFFECTS OF CHRONIC EXPOSURE:

Irritancy: Prolonged or repeated contacts with skin may cause irritation: skin dryness, redness, dermatitis.

Skin Sensitization: Not sensitizing.

Carcinogenicity: No ingredients are human carcinogenics.

Teratogenicity: Not available.

Mutagenicity: Not available

Synergistic Materials: None known.

SECTION 7: PREVENTATIVE MEASURES

Gloves: Plastic or rubber gloves to manipulate large quantities of product.

Eye Protection: Safety goggles to manipulate large quantities.

Respiratory Protection: Not required, if adequate ventilation is available. Respirator NIOSH/MSHA approved if large spill and lack of ventilation.

Other Protective Equipment: Waterproof boots if large spill.

Engineering Controls: Shower and eye wash station if large quantities are manipulated. Provide adequate ventilation.

Leak and Spill Procedure: Wear personal protective equipment. Stop the leak. Pump the product into drums or clean up spills using absorbent material and place in container. Resume cleaning by rinsing with water.

Waste Disposal: Dispose according to existing federal, provincial and municipal regulations.

Storage Requirements: Keep in closed containers, in a well ventilated room. Keep from freezing.

SECTION 8: FIRST AID

Eye: Immediately rinse with plenty of water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

Skin: Rinse with water for at least 15 minutes. Remove soiled clothes and wash before wearing. Seek medical attention should an irritation develop.

Inhalation: Bring the person to fresh air. Seek medical attention if discomfort persists.

Ingestion: Give plenty of water or milk. Do not induce vomiting. Seek medical attention immediately.

SECTION 9: PREPARATION INFORMATION

Date: 2011-09-07

Phone: (514) 729-6321

Prepared by:

Chemotec (PM) Inc.

Abbreviation:

n/a: not available

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 Center for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (1-800-263-8276) or CSST in Montreal (514-873-3990).