

# MATERIAL SAFETY DATA SHEET

## SECTION 1: PRODUCT IDENTIFICATION

Product Name: **V-280**

Product Use: LIQUID DISH DETERGENT

WHMIS Class: D2B, E

TDG Classification: Class 8

UN Number: UN 3266, 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>LC<sub>50</sub></u>	<u>LD<sub>50</sub></u>
Potassium hydroxide	1310-58-3	10 - 30	n/a	n/a	273 mg/kg (oral, rat)
Sodium hypochlorite	7681-52-9	1 - 5	n/a	n/a	n/a
Sodium metasilicate	6834-92-0	1 - 5	n/a	n/a	622 mg/kg (oral,rat)

## SECTION 3: PHYSICAL DATA

Boiling Point (°C): Approx. 110

Vapor Pressure (mm Hg): 20 at 20°C

Vapor Density (Air = 1): 0.6 (water)

Solubility in Water: Complete

Physical State: Liquid

Appearance and Odor: Light yellow liquid with javel odour.

Specific Gravity (H<sub>2</sub>O = 1): 1.25 at 20°C

% Volatile (Wt %): 80 - 85

Evaporation Rate (nBuAc= 1 ): 0.4 (water)

pH (as supplied): 13.0 - 14.0

Viscosity: < 1000 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: Carbon oxides and chlorine gas.

Autoignition Temperature (°C): Not applicable.

Means of Extinction: Use appropriate media to extinguish surrounding fire and/or materials.

Special Fire Hazards: Contact with metals such as aluminum, tin and zinc generate hydrogen which is flammable and/or explosive when ignited. Chlorine, which is a toxic gas, may be evolved.

## SECTION 5: REACTIVITY DATA

Conditions for Chemical Instability: Unstable above 40°C, or in contact with metals or sunlight.

Hazardous polymerization: Will not occur

Incompatible Materials: **Acids**, ammonia, oxydizable materials, urea, most metals.

Reactivity and Under What Conditions: May evolve heat in presence of acids. Heat and light favor decomposition and discoloration.

Hazardous Decomposition Products: Chlorine gas when in contact with acids.

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## SECTION 6: TOXICOLOGICAL PROPERTIES

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

### **EFFECTS OF ACUTE EXPOSURE:**

Eye: Irritant. Extremely corrosive product. Corneal scarring and clouding. Glaucoma, cataracts and permanent blindness may occur.

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

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

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

## **EFFECTS OF CHRONIC EXPOSURE:**

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

Skin Sensitization: Not sensitizing.

Carcinogenicity: No ingredients are known to be carcinogenic.

Teratogenicity: No ingredients are known to be teratogenic.

Mutagenicity: No ingredients are known to be mutagenic..

Synergistic Materials: Unknown.

## **SECTION 7: PREVENTIVE MEASURES**

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

Eye Protection: Safety glasses with side shields 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 and apron 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 original closed containers, in a well ventilated room. Keep from freezing.

## SECTION 8: FIRST AID

**Eye:** Immediately rinse with plenty of water for 30 minutes at least, keeping eyelids open. Seek immediate medical attention.

**Skin:** Rinse with water. Remove soiled clothes and wash before wearing. Seek medical attention should an irritation develop.

**Inhalation:** Bring to fresh air. If breathing has stopped, give artificial respiration. Seek medical attention if discomfort persists.

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

## SECTION 9: PREPARATION INFORMATION

**Date:** 2011-09-19

**Phone:** (514) 729-6321

**Prepared by:**

Chemotec (PM) Inc.

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**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).