

# MATERIAL SAFETY DATA SHEET

## SECTION 1: PRODUCT IDENTIFICATION

Product Name: **V-100**

Product Use: Automatic dishwasher detergent

WHMIS Class: D2B, E

TDG Classification: Not regulated

UN Number: Not applicable

T.D.G. Shipping Name: Not applicable.

### 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>
Sodium metasilicate	6834-92-0	10 - 30	n/a	n/a	622 mg/kg (oral, rat)
Sodium carbonate	497-19-8	10 - 30	n/a	800 mg/m <sup>3</sup> /2h (guinea pig)	4090 mg/kg (oral, rat)
Sodium dicloro-s-triazine-trione	2895-75-9	0.1 - 1	n/a	n/a	1670 mg/kg

## SECTION 3: PHYSICAL DATA

Boiling Point ( °C ): n/a

Vapor Pressure ( mm Hg ): n/a

Vapor Density ( Air = 1 ): n/a

Solubility in Water: Approx. 300 g/L

Physical State: Solid

Appearance and Odor: white powder with blue crystals.

Bulk density ( H<sub>2</sub>O = 1 ): 1.21 at 20 °C

% Volatile ( Wt % ): < 1

Evaporation Rate ( Water = 1 ): n/a

pH ( sol. 1% ): 11.3

Viscosity: n/a

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: None.

Autoignition Temperature ( °C ): Not available.

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

Special Fire Hazards: Not available.

## SECTION 5: REACTIVITY DATA

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

Incompatible Materials: Strong concentrated acids, strong oxidizing agents.

Reactivity, and Under What Conditions: Contact with acids may produce chlorine gas. May strongly react with hot metals such as aluminum, tin, lead, zinc. Carbon monoxide gas may be produced on contact with reducing sugars.

Hazardous Decomposition Products: Contact with acids may produce chlorine gas. Contact with the metals listed above may produce hydrogen a flammable gas. Carbon monoxide gas may be produced on contact with reducing sugars.

## SECTION 6: TOXICOLOGICAL PROPERTIES

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

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

Eye: Severe irritant. Corrosive product which may cause burns. Corneal scarring and clouding, glaucoma, cataracts and permanent blindness may occur.

Skin: Irritant: Severe irritation and burn on skin.

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

Inhalation: Breathing high concentration of dust from product 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, Reproductive Effects: No ingredients are known to be teratogenic.

Mutagenicity: No ingredients are known to be mutagenic.

Synergistic Materials: None known.

## **SECTION 7: PREVENTATIVE MEASURES**

Gloves: Plastic or rubber gloves.

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. Shovel the product in waste container for destruction. Resume cleaning by mopping and by rinsing with water.

Waste Disposal: Dispose according to existing federal, provincial and municipal regulations. Household solutions may be disposed of in sewer.

Storage Requirements: Keep in original tightly closed containers, in a well ventilated room.

## SECTION 8: FIRST AID

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

**Skin:** Rinse with water. Remove soiled clothes and wash before wearing. Wash affected area quickly and thoroughly. 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 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 ).