

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product identifier/Trade name: V-100

Product code/Internal Identification: CCC-V100

Product use/Description: CONCENTRATED CHLORINATED POWDER FOR INDUSTRIAL AUTOMATIC DISHWASHERS

Supplier identifier: Chemotec (PM) Inc.
8820 Place Ray Lawson
Anjou, Québec, Canada H1J 1Z2
Phone: (514) 729-6321; 1-800-729-6321

Manufacturer: Chemotec (PM) Inc.
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Anjou, Québec, Canada H1J 1Z2
Phone: (514) 729-6321; 1-800-729-6321

Emergency phone number: (613) 996-6666 (CANUTEC)

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS #	% (weight)	ACGIH TLV	OSHA PEL
Sodium metasilicate	68991-48-0	10-30	None established	None established
Sodium carbonate	497-19-8	10-30	None established	None established
Sodium dichloroisocyanurate	51580-86-0	0-1	None established	None established

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview

White powder, low chlorine odour. CAUTION. May cause severe eye irritation or burn. May also cause skin irritation.

POTENTIAL HEALTH EFFECTS (for more details, refer to Section 11)

Primary entry route(s): Eye, skin, inhalation and ingestion.

Eye: May cause severe irritation or burn.

Skin: Direct, short-term skin contact may cause irritation. Prolonged contact without rinsing may cause severe irritation and possible burns. May dry and defat skin.

Inhalation: Breathing high concentrations of dusts from the product may irritate upper respiratory tract.

Ingestion: May cause irritation, diarrhoea, vomiting, abdomen aches and nausea.

Long-term (chronic) exposure: Prolonged contact with the product may cause dryness, irritation. Dry red skin, dermatitis.

Conditions aggravated by exposure: No applicable information found.

Carcinogenic status: See TOXICOLOGICAL INFORMATION, Section 11.

Additional health hazards: For further information, see TOXICOLOGICAL INFORMATION, Section 11.

Potential environmental effects: See ECOLOGICAL INFORMATION, Section 12.

SECTION 4 - FIRST AID MEASURES**Eye contact:**

Immediately rinse with plenty of water for 15 minutes, keeping eyelids open. If irritation persists, seek medical attention immediately.

Skin contact:

Rinse with water. 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:

If conscious, give plenty of water. Never give anything by mouth if the person is unconscious. Do not induce vomiting. Seek immediate medical attention.

SECTION 5 - FIRE FIGHTING MEASURES**Fire hazards/conditions of flammability:**

Neither flammable nor combustible.

Flash point (Method): None

Lower flammable limit (% by volume): Not applicable.

Upper flammable limit (% by volume): Not applicable

Explosion data - Sensitivity to mechanical impact: not sensitive

Explosion data - Sensitivity to static discharge: not sensitive

Auto-ignition temperature: N/Av

Suitable extinguishing media:

Use media applicable to surrounding source of fire.

Special fire-fighting procedures/equipment:

A stream of water directed into the product generates a lot of foam.

Hazardous combustion products:

Carbon dioxide and chlorine, a toxic gas.

SECTION 6 - ACCIDENTAL RELEASE MEASURES**Personal precautions:**

Wear adequate personal protective equipment (See Section 8).

Spill response/Cleanup:

Wear personal protective equipment. Pick up product into drums for re-use or disposal. Resume cleaning by rinsing with water.

Environmental precautions:

Biodegradable.

Prohibited materials: N/Av

Special spill response procedures: N/Av

SECTION 7 - HANDLING AND STORAGE

Safe handling procedures:

Before handling, it is important that engineering controls are operating and that protective equipment requirement and personal hygiene measures are being followed. People working with this chemical should be properly trained regarding its hazards and its safe use. Label containers appropriately. Avoid inhaling vapours or mists. Avoid contact with skin, eyes and clothing. Keep containers closed when not in use. Do not use with incompatible materials such as strong oxidizing agents or strong acids.

Storage requirements:

Store in a tightly sealed container. Do not store with food products. Keep from freezing.

Special packaging materials: N/Ap

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering controls:

A mechanical ventilation system is recommended.

Respiratory Protection:

Not required under normal applications. In case of prolonged contact, or if engineering controls and work practices are not effective in controlling exposure to this material, then wear dust mask. Have appropriate equipment available for use in emergencies such as spills or fire.

Skin protection and other protective equipment:

Use impervious (rubber) gloves. Wear waterproof boots for prolonged contact with spills.

Eye / face protection:

Wear safety glasses to manipulate large quantities if there is any possibility of contact with the eyes.

General hygiene considerations:

KEEP OUT OF REACH OF CHILDREN. Avoid contact with eyes. Never eat, drink, or smoke in work areas.

Practice good personal hygiene after using this material.

Permissible exposure levels: For individual ingredient exposure levels, see Section 2.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state, colour and odour: White powder, low odour.

Odour threshold: N/Av

pH : 12 (30g/L solution)

Boiling point: Not applicable

Melting/freezing point: N/Av.

Vapour pressure: Not applicable

Solubility in water: Highly soluble

Coefficient of oil/water distribution: N/Av

Specific gravity or density (water = 1, at 4 °C): N/Av.

Vapour density: N/Av.

Evaporation rate: N/Av.

% volatile by volume: Not available

Viscosity: N/Av.

SECTION 10 - REACTIVITY AND STABILITY DATA

Stability and reactivity:

Stable at room temperature, in normal handling and storage conditions.

Polymerisation: Hazardous polymerization will not occur.

Conditions to avoid:

Avoid strong oxidizing agents and strong acids.

Materials to avoid:

Avoid strong oxidizing agents and strong acids.

Hazardous decomposition products:

Carbon dioxide and chlorine, a toxic gas, in presence of acids.

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicological data: The calculated LD₅₀ for this product is greater than 2,500 mg/Kg, oral, rat; our products are not tested on animals.

Ingredient	LD ₅₀ (route, species)	LC ₅₀ # hours (species)
Sodium metasilicate	622 mg/kg (oral, rat)	N/Av
Sodium carbonate	4,090 mg/kg (oral, rat)	800 mg/m ³ /2H (hamster)
Sodium dichloroisocyanurate	735 mg/kg (oral, rat)	>50 mg/l inhalation (species not reported)

For more details, refer to Section 3.

Carcinogenicity: No ingredient listed by IARC, ACGIH, NTP and OSHA as a possible carcinogen.

Teratogenicity, mutagenicity, other reproductive effects: None of the ingredients are teratogens or mutagenic

Skin sensitization: None of the ingredients are skin sensitizers.

Respiratory tract sensitization: None of the ingredients are respiratory sensitizers.

Synergistic materials: No known synergistic materials.

Other important hazards: N/Av

SECTION 12 - ECOLOGICAL INFORMATION

Environmental effects: Product is expected to be readily biodegradable as per OECD 301D.

Important environmental characteristics: Product is expected to be readily biodegradable

Aquatic toxicity: There is no test data on this product.

SECTION 13 - WASTE DISPOSAL

Handling and storage conditions for disposal:

Store material for disposal as indicated in Handling and Storage (Section 7).

Methods of disposal:

Dispose according to existing federal, provincial and municipal regulations.

SECTION 14 - TRANSPORTATION INFORMATION
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Transportation of Dangerous Goods (TDG) in Canada :

Proper shipping name:	Not Regulated
Class:	N/Ap
Identification number:	N/Ap
Packing group:	N/Ap
Special case:	N/Ap

SECTION 15 - REGULATORY INFORMATION
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In Canada**WHMIS information:**

Product is regulated according to the Controlled Product Regulation (CPR) in Canada. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the CPR.

WHMIS Classification: D2B – Toxic Materials with other effects

CEPA information: Ingredients are listed on the DSL inventory.

Other information:

HMIS:	0 Minimal 1 Slight 2 Moderate 3 Serious 4 Severe
Health Hazard:	2
Fire Hazard:	0
Reactivity:	1
Personal Protection:	(See section 8.)
NFPA:	0 Minimal 1 Slight 2 Moderate 3 Serious 4 Severe
Fire Hazard:	0
Reactivity:	1
Specific Hazard:	None

SECTION 16 - OTHER INFORMATION

Prepared by:	Chemotec (PM) Inc.
Phone number:	(514) 729-6321
Date:	2014-06-11

References:

1. Manufacturer'/suppliers' MSDS.
2. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2006.
3. International Agency for Research on Cancer Monographs, searched 2006.

Abbreviations:

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstract Service
CEPA	Canadian Environmental Protection Act
cps	Centipoises
DSL	Domestic Substance List
HMIS	Hazardous Material Information System
IARC	International Agency for Research on Cancer
LC	Lethal concentration
LD	Lethal Dosage
N/Av	Not Available
N/Ap	Not Applicable
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program (U.S.A.)
OSHA	Occupational Safety and Health Administration (U.S.A.)
PEL	Permissible Exposure Limit
TLV	Threshold Limit Value
WHMIS	Workplace Hazardous Materials Information System

End of the MSDS