

SECTION 1 - IDENTIFICATION

Product identifier/Trade name: V-100 DISH DETERGENT POWDER

Other means of identification: V100

Recommended use: Automatic dishwasher detergent

Restriction on use: For industrial, institutional and food plants use only.

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

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

SECTION 2 - HAZARDS IDENTIFICATION**2a WHMIS 2015 - GHS (Globally Harmonized System) classification****This product is classified as:**

Skin Corrosion (category 1B)
Eye damage (category 1)

2b Label elements**Pictogram**

Signal words Danger

Hazard statements

H314: Causes severe skin burns and eye damage

Precautionary statements

Do not breathe dusts or mists. Wash hands thoroughly after handling. Wear rubber gloves, protective clothing, eye or face protection.

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Immediately call a POISON CENTER or doctor.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

IF ON SKIN or hair: Take off immediately all contaminated clothing. Rinse skin with water or shower.

Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.

Storage: Store locked up.

Disposal: Dispose of contents and container in accordance with local, provincial and federal regulations.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS #	% (weight)	GHS CLASSIFICATION
Sodium carbonate or soda ash	497-19-8	10-30	Eye irritation, category 2
Sodium metasilicate	10213-79-3	10-18	Eye damage/Irritation Category 1 Skin Corrosion Category 1B; Corrosive to metals Category 1; Specific target organ toxicity (single exposure) Category 3.
Troclosene sodium, dihydrate	2893-78-9	0-1	Acute oral category 4; Eye irritation category 2; Specific target organ toxicity (single exposure) Category 3.

SECTION 4 - FIRST AID MEASURES

4a Description of first aid measures

Eye contact:

Immediately rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice.

Skin contact:

Wash with plenty of water for several minutes. Remove contaminated clothing and wash before reusing. In case of skin irritation, get medical advice..

Inhalation:

Remove person to fresh air and keep comfortable for breathing. Get medical attention if irritation persists.

Ingestion:

Rinse mouth. Call a doctor if you feel unwell. Never give anything by mouth if the person is unconscious

4b Most important symptoms and effects

The most important known symptoms and effects are described in the labelling (section 2b) and/or in section 11.

4c Immediate medical attention and special treatment needed

No data available.

SECTION 5 - FIRE FIGHTING MEASURES

5a Extinguishing media

Suitable extinguishing media:

Water (if possible avoid powerful sprays), foam, dry chemicals, carbon dioxide. Product itself is not flammable.

Unsuitable extinguishing media:

None known.

Specific hazards for product

Hazardous combustion products:

Chlorine gas, oxides of carbon, sulfur and other irritating gases.

Special protective equipment and precautions for firefighters

Special fire-fighting procedures/equipment:

During a fire, chlorine a toxic gas and irritating smoke and fumes may be generated. A self-contained breathing apparatus is required for fire-fighting personnel to protect themselves from products produced during the combustion. Move containers from fire area if it can be done without risk. A stream of water directed into the product generates a lot of foam.

SECTION 6 - ACCIDENTAL RELEASE MEASURES
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6a Personal precautions, protective equipment and emergency procedures

Personal protection:

Avoid contact with eyes and skin. Use adequate aeration and ventilation. Floor will be slippery in case of a spill.

Use appropriate personal protection equipment (see section 8)

6b Methods and materials for containment and cleaning:

Stop the leak. For large spills, pump the product into drums or clean up spills using absorbent material. Resume cleaning by rinsing with water. Caution: floors will be slippery.

6c Environmental precautions:

Product is not biodegradable and is corrosive. Do not let go to the sewers.

SECTION 7 - HANDLING AND STORAGE

7a Precautions for Safe handling:

Avoid contact with eyes and skin. When used as directed, direct contact is not very likely.

7b Condition for safe storage:

Store in a sealed container in a well-ventilated place. Do not store with food products.

7c Special packaging materials: Store in its original container made of polyethylene. This product when wet may become corrosive to certain metals.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION
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8a Control parameters

	Ontario Time-weighted Average Limit (TWA)	Ontario Short-Term Exposure Limit (STEL)	Notations
Sodium metasilicate	None established	None established	
Sodium carbonate	None established	None established	

Troclosene sodium, dihydrate	None established	None established	
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8b Engineering controls:

Provide adequate ventilation.

8c Individual protection measures

Respiratory Protection:

Not required under normal applications.

Respirator NIOSH/MSHA approved if large spill and lack of ventilation or if formation of mists.

Skin protection and other protective equipment:

Waterproof boots in case of spills. Plastic or rubber gloves recommended.

Eye / face protection:

Safety goggles recommended.

General hygiene considerations:

KEEP OUT OF REACH OF CHILDREN. Avoid contact with eyes and skin. Never eat, drink, or smoke in work areas. Good hygiene is recommended after use of this product.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance and odour:	White powder with light chlorine odour
Odour threshold:	N/Av
pH :	Approximately 12 (1% solution)
Melting point and freezing point:	Not applicable
Boiling point:	Not applicable
Flash point:	Not applicable
Evaporation rate (n-BuAc =1):	Not applicable
Lower flammable limit (% by volume):	N/Av
Upper flammable limit (% by volume):	N/Av.
Explosion data - Sensitivity to mechanical impact:	Not sensitive
Explosion data - Sensitivity to static discharge:	Not sensitive
Vapour pressure (mm Hg)	Not applicable
Vapour density:	Not applicable
Specific gravity or density (water = 1 at 4 °C):	Not applicable
Solubility in water:	Very soluble
Partition coefficient – n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature	Not available
Viscosity:	Not applicable

SECTION 10 - STABILITY AND REACTIVITY
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10a Reactivity:

Not applicable when used as directed. It is incompatible with some materials, see below.

10b Chemical stability :

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

10c Possibility of hazardous reactions:

May react with strong acids, strong oxidizing agents and aluminium and other soft metals like zinc.

10d Conditions to avoid:

Avoid contact with strong acids, strong oxidizers and soft metals like aluminium, zinc, etc.

10e Incompatible materials

Strong acids, strong oxidizers, soft metals

10f Hazardous decomposition products:

With strong acids or oxidizers: heat, water vapors and irritant chlorine gas. With soft metals like aluminium, flammable and explosive hydrogen gas.

SECTION 11 - TOXICOLOGICAL INFORMATION

Primary entry route(s): Eye and ingestion.

Eye: Corrosive product. May cause burns, irritation, redness, tears, burning sensation.

Skin: May cause sever irritation and burns on skin, necrosis of cutaneous tissues.

Inhalation: Breathing high concentrations of dusts or mists may cause headache, nausea, vomiting, dizziness.

Ingestion: Causes burns to mouth, throat, oesophagus, stomach.

Carcinogenicity: No ingredient listed by IARC as a possible carcinogen.

Teratogenicity, mutagenicity, other reproductive effects: Genetic toxicity tests have been negative for ingredients

Skin sensitization: Ingredients not sensitizing

Respiratory tract sensitization: Not available

Synergistic materials: Not available

Other important hazards: Not available

Toxicological data: The calculated LD₅₀ for this product is greater than 4,000 mg/Kg, oral, rat; our products are not tested on animals.

Ingredient	LD ₅₀ (route, species)	LC ₅₀ # hours (species)
Sodium carbonate	4,090 mg/kg (oral, rat) 2,210 mg/kg (dermal, rabbit)	Not available
Sodium metasilicate	1,153 mg/kg (oral, rat)	Not available
Troclosene sodium, dihydrate	1671 mg/kg (oral, rat)	Not available

For more details, refer to Section 3.

SECTION 12 - ECOLOGICAL INFORMATION
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12a Ecotoxicity :

TOXICITY (Fish)	Results	Exposure time	Method
Sodium carbonate	Trout and salmon: 68-80 mg/L	96H	Not available
Troclosene sodium, dihydrate	Rainbow trout >2100 mg/L	96H	Not available
Sodium metasilicate	Leuciscus idus >146 mg/L	48H	Not available

TOXICITY (Daphnia)	Results	Exposure time	Method
Sodium carbonate	>146mg/L	24H	Not available
Troclosene sodium, dihydrate	EC50 > 230 mg/L	48H	Not available
Sodium metasilicate	LC50 3,8-6,2 mg/L EC50 >146 mg/L	24H	Not available

TOXICITY (Algae)	Results	Exposure time	Method
Sodium carbonate	Selenastrum EC50 230 mg/L	96H	Not available
Troclosene sodium, dihydrate	Navicula pelliculosa EC50 > 5000 mg/L	96H	Not available
Sodium metasilicate	Desmodesmus subspicatus 207 mg/L	72H	Not available

12b Persistence and degradability: Product is not readily biodegradable.

12c Bioaccumulation potential: Not expected to be bioaccumulative.

12d Mobility in soil: There is no test data on this product.

12e Other adverse effect No applicable information found

SECTION 13 - DISPOSAL CONSIDERATIONS

Eliminate according to federal, provincial and local regulations.

SECTION 14 - TRANSPORTATION INFORMATION

Transportation of Dangerous Goods:

Not regulated

UN number

Proper shipping name:

Class:

Packing group:

Special case:

SECTION 15 - REGULATORY INFORMATION

In Canada

WHMIS information:

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and this safety data sheet (SDS) contains all the information required by the HPR.

WHMIS 2015

Classification:

See section 2a

CEPA information:

Ingredients are listed on the DSL inventory.

SECTION 16 - OTHER INFORMATION

Date of latest revision 2016-05-03

References:

1. Manufacturer'/suppliers' MSDS.
2. Occupational Exposure Limits for Ontario Workplaces required under Regulation 833
3. International Agency for Research on Cancer Monographs
4. The European Chemicals Agency (ECHA) website.

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