



**SECTION 1 - IDENTIFICATION**

<b>Product identifier:</b>	<b>WATER-SOLUBLES DISHWASHER TABS PURENATURE</b>
<b>Product code:</b>	
<b>Recommended use:</b>	Solid tablets for automatic dishwashers.
<b>Chemical name :</b>	Mixture.
<b>Supplier identifier:</b>	TOTAL FABRICATION 511 Route 289 St-Alexandre-de-Kamouraska, Qc G0L 2G0 418-970-0889
<b>Emergency phone:</b>	418-970-0889 Lundi au Vendredi, 9h00 to 17h00

**SECTION 2 - HAZARD IDENTIFICATION**

<b>Classification</b>	Corrosive to metals 1 Acute toxicity - oral 4 Skin irritation 2 Specific target organ exposure, single exposure; Respiratory tract irritation 3	 
<b>Signal word</b>	DANGER	
<b>Hazard statement</b>	H290 H302 H315 H318 H335	May be corrosive to metals. Harmful if swallowed. Causes skin irritation. Severe eye damage 1 May cause respiratory irritation.
<b>Precautionary statement - Prevention</b>	P234 P264 P270 P280	Keep only in original packaging. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.
<b>Precautionary statement - Response</b>	P261 P271 P390 P301+P312	Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Absorb spillage to prevent material damage. IF SWALLOWED: immediately call a POISON CENTER/physician.
<b>Precautionary statement - Storage</b>	P330 P302+P352 P321 P332+P313 P362+P364 P305+P351+P338	Rinse mouth. IF ON SKIN: Wash with plenty of water. Specific treatment: Treat as chemical burns. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Precautionary statement - Elimination</b>	P310 P304+P340 P312 P406 P403+P233 P405 P501	Immediately call a POISON CENTER/doctor. IF INHALED: remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. Store in a corrosion resistant container or with a resistant inner liner. Store in a well ventilated place. Keep container tightly closed. Store locked up. Dispose contents/containers according to municipal, provincial and federal regulations.

**SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous product	No. CAS	% (weight)
Sodium carbonate	497-19-8	< 30
Sodium percarbonate	15630-89-4	< 20
Anhydrous sodium metasilicate	6834-92-0	< 5

**SECTION 4 - FIRST AID MEASURES**

**Inhalation:**  
 IF INHALED: remover person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CONTROL CENTER or physician.

**Skin contact:**  
 IF ON SKIN: Take off all contaminated clothing. Rinse skin with water for 20 minutes. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing/ jewellery and wash it before reuse.

**Eye contact:**  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion:**  
 NEVER give anything orally if victim is losing consciousness, is unconscious or having convulsions. Rinse mouth with water thoroughly. DO NOT INDUCE VOMITING. Ask victim to drink two glasses of water. If vomiting occurs naturally, lean victim forward to reduce risks of aspiration. Continue to drink water. Obtain medical care.

**Note to physician:**  
 Treat as chemical burns.

**SECTION 5 - FIRE-FIGHTING MEASURES**

**Suitable extinguishing media:** As required by the conditions of the fire. Water, foam, dry chemical powder, CO2.

**Unsuitable extinguishing media:** None known.

**Hazardous combustion products :** Silica oxides, sodium oxides, acrid smoke.

**Protective equipment :** Fire-fighters must wear protective equipment and NIOSH approved self-contained breathing apparatus.

**Precautions:** Retain water run-off. Prevent infiltration in sewers or waterways.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**Protective equipment:**  
 Wear appropriate respiratory equipment (See Section 8). Avoid direct contact with product. Remove non-essential personnel.

**Containment and clean up:**  
 Ventilate spill area. Stop spill if safe to do so. Contain and absorb with an inert absorbing material for future disposal (See Section 13). Prevent spill from entering sewers or waterways. Retain water run-off if applicable. Inform proper authorities if necessary.

**Environmental precautions:**  
 Avoid entering sewers, waterways or restricted areas. Eliminate according to municipal, provincial and federal regulations.

**SECTION 7 - HANDLING AND STORAGE**

**Precautions for safe handling:**  
 Containers must be identified correctly. Handle in a well ventilated area. Avoid breathing dust, vapours or mists. Avoid contact with eyes, skin and clothes. Keep containers closed when not in use. Protect from day light. Empty containers may contain residues and must be handled as hazardous waste. Maintain good personal hygiene before eating, drinking or smoking. Do not eat, drink or smoke while using the product or in proximity. Wash contaminated clothing before reuse.

**Conditions for safe storage:**  
 Store in a well-ventilated place. Keep cool. Store away from incompatible materials. w

**Incompatible materials :**  
 Acids, oxidizing agents.

**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure limits:**

Ingredients	# CAS	SOURCE	Values
Sodium carbonate	497-19-8		No established limits.
Sodium percarbonate	15630-89-4		No established limits.
Anhydrous sodium metasilicate	6834-92-0		No established limits.

**Engineering controls:**  
 Local ventilation system is recommended to maintain concentrations of contaminants below exposure limits.

**Protection of airways:**  
 Respiratory protection is required if concentration are above exposure limits. Use a NIOSH approved autonomous respiratory apparatus if exposure limits are unknown.

**Protective equipment and clothing:**

Wear chemical / impermeable gloves or other protective clothing to prevent repeated or continuous contact with the skin during handling and usage. Wear goggles to prevent mist, vapours or dust to contact eyes. Insure that eyewash stations, showers and cleaning stations are near to work station.

**General hygiene recommendations :**

Avoid production of high concentrations of dust, vapours or mists. Avoid contact with skin and eyes. Avoid breathing dust, vapours or mists. Never eat, drink or smoke near work stations. Good hygiene is recommended after using this product. Clean clothing before reuse.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Rectangular tablet, blue and white
<b>Odour :</b>	Citrus
<b>Odour threshold:</b>	Not determined
<b>pH (solution 50% in water) :</b>	9.5 – 11.0
<b>Melting point:</b>	Not determined
<b>Initial boiling point:</b>	Not determined
<b>Flash point:</b>	Not applicable
<b>Evaporation rate (butyl acetate = 1):</b>	Not determined
<b>Flammability:</b>	Not flammable
<b>LIL:</b>	Not applicable
<b>UIL:</b>	Not applicable
<b>Vapour pressure:</b>	Not determined
<b>Vapour density (air=1):</b>	Not determined
<b>Relative density:</b>	Not determined
<b>Solubility:</b>	Soluble
<b>Partition coefficient (n-octanol/water):</b>	Not determined
<b>Auto-ignition temperature:</b>	Not determined
<b>Decomposition temperature:</b>	Not determined
<b>Viscosity:</b>	Not applicable

**SECTION 10 - STABILITY AND REACTIVITY**

<b>Stability and reactivity :</b>	Stable under recommended conditions and expected usage.
<b>Polymerisation:</b>	Risk of sudden polymerization
<b>Conditions to avoid :</b>	Contact with incompatible materials.
<b>Incompatible materials :</b>	Acids, oxidizing agents.
<b>Hazardous decomposition products :</b>	Silica oxides, sodium oxides.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

<b>Toxicological data:</b>				
<b>Hazardous ingredient</b>	<b>CAS</b>	<b>%</b>	<b>DL<sub>50</sub> (route, species)</b>	<b>CL<sub>50</sub> (species)</b>
Sodium carbonate	497-19-8	< 30	2390 mg/kg, oral, rat	1150 mg/m <sup>3</sup> , rat, 4h
Sodium percarbonate	15630-89-4	< 20	1034 mg/kg, oral, rat >2000 mg/kg, dermal, rabbit	No data
Anhydrous sodium metasilicate	6834-92-0	< 5	1153 mg/kg, oral, rat	No data
<b>Short term exposure (acute) :</b>				
<b>Inhalation:</b>	May irritate respiratory tract. Coughing, itching.			
<b>Skin:</b>	May cause skin irritation. Redness, pain, itching.			
<b>Eyes:</b>	May cause serious eye damage. Pain, redness, tearing. May cause lesions to the cornea.			
<b>Ingestion:</b>	May irritate upper digestive tract. May cause chemical burns to the mouth.			
<b>Long term exposure (chronic) :</b>				
<b>Inhalation:</b>	No data			
<b>Skin:</b>	May cause skin dryness in the long term.			
<b>Eyes:</b>	No data			
<b>Ingestion:</b>	No data			
<b>Carcinogenicity :</b>	No data			

**Teratogenicity:** No data  
**Mutagenicity:** No data  
**Target organ:** No data  
**Conditions aggravated by exposure :** No data

**SECTION 12 - ECOLOGICAL INFORMATION**

Hazardous ingredient	CAS	% (weight)	Value	Species
Sodium carbonate	497-19-8	< 30	LC50 300 mg/L, 96h EC50 265 mg/L, 48h	Lepomis macrochirus Daphnia magna
Sodium percarbonate	15630-89-4	< 20	LC50 70.8 mg/L, 96h EC50 4.9 mg/L, 48h	Pimephales promelas Daphnia magna
Anhydrous sodium metasilicate	6834-92-0	< 5	LC50 210 mg/L, 96h	Danio rerio
<b>Persistence and degradability :</b>	Not determined.			
<b>Bioaccumulation potential:</b>	Not determined.			
<b>Mobility in soil:</b>	Not determined.			
<b>Other adverse effects :</b>	Not determined.			

**SECTION 13 - DISPOSAL CONSIDERATIONS**

**Safe handling for disposal:** Store materials for elimination and contaminated packaging as indicated in Section 7 Handling and Storage.  
**Methods of disposal :** Dispose contents/containers according to all municipal, provincial and federal regulations.

**SECTION 14 - TRANSPORT INFORMATION**

UN Number	Proper shipping name	Class	Packing group	Placard
Not regulated for transport.				

**SECTION 15 - REGULATORY INFORMATION**

**Canadian Environmental Protection Act (CEPA):** Components of this product are listed in the Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL) or are exempt.  
**Others :** Components of this product are listed on the TSCA or are exempt.

**SECTION 16 - OTHER INFORMATION**

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<b>Version:</b>	1.0
<b>Abbreviations:</b>	
ACGIH	American Conference of Governmental Industrial Hygienists
AIHA	American Industrial Hygiene Association
CAS	Chemical Abstract Service
CL / LC	Concentration létale /Lethal concentration
DL / LD	Dose létale / Lethal dose
IARC	International Agency for Research on Cancer
LES	Liste extérieure des substances (NDSL)
LIS	Liste intérieure des substances (DSL)
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
SIMDUT	Système d'information sur les matières dangereuses utilisées au travail
STEL	Short-term Exposure Limit
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
USEPA	United States Environmental Protection Agency
WHMIS	Workplace Hazardous Materials Information System

All information indicated in the present document are based on data supplied by recognized technical sources. While the information is believed to be

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accurate, the manufacturer makes no representations as to its accuracy or sufficiency. Users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.