

SECTION 1 - IDENTIFICATION	
Product identifier:	AUTOMATIC DISHWASHER CLEANER
Product code:	
Recommended use:	Cleaning tablet for dishwashers.
Chemical name :	Mixture.
Supplier identifier:	COMERCO SERVICES INC. 3300, Boul. St-martin Ouest, suite 300 Laval, QC H7T 1A1 1-866-503-3358
Emergency phone:	Canutec (613) 996-6666 24 hrs
SECTION 2 - HAZARD IDENTIFICATION	
Classification	Acute toxicity - oral 4 Skin irritation 2 Eye irritation 2A Specific target organ exposure, single exposure; Respiratory tract irritation 3 Hazardous to the aquatic environment, acute hazard 2
Signal word	WARNING
Hazard statement	H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H401 Toxic to aquatic life.
Precautionary statement - Prevention	P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement - Response	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P301+P312 IF SWALLOWED: immediately call a POISON CENTER/physician. P330 Rinse mouth. P302+P352 IF ON SKIN: Wash with plenty of water. P321 Specific treatment: Wash with soap and water. P332+P313 If skin irritation occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash before reuse. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. P304+P340 IF INHALED: remove person to fresh air and keep comfortable for breathing.
Precautionary statement - Storage	P312 Call a POISON CENTER/doctor if you feel unwell. P403+P233 Store in a well ventilated place. Keep container tightly closed. P405 Store locked up.
Precautionary statement - Elimination	P501 Dispose contents/containers according to municipal, provincial and federal regulations.



SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS		
Ingredient	CAS	% (weight)
Sodium carbonate	497-19-8	7 – 13 *
Sulfamic acid	5329-14-6	7 – 13 *
Alcohols C16-C18 ethoxylated	68439-49-6	3 – 7 *
Citric acid	77-92-9	3 – 7 *
Polycarboxylate	5225-49-9	3 – 7 *

*TRADE SECRET STATEMENT: The exact concentration of composition has been withheld as a trade secret.

SECTION 4 - FIRST AID MEASURES	
Inhalation:	IF INHALED: remove 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:	Extinguishing media suitable to conditions of fire. Water spray, chemical foam, CO2.
Unsuitable extinguishing media:	Direct water jet may cause formation of foam.
Hazardous combustion products :	Carbon 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. Keep containers closed.
Incompatible materials :	Water, humidity, strong oxidizing agents, alkalis.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION			
Exposure limits:			
Ingredients	CAS	SOURCE	Values
Sodium carbonate	497-19-8		No established limits.
Sulfamic acid	5329-14-6		No established limits.
Alcohols C16-C18 ethoxylated	68439-49-6		No established limits.
Citric acid	77-92-9		No established limits.
Polycarboxylate	5225-49-9	SUPPLIER	VEMP 0.
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	
Appearance:	White solid
Odour :	Citrus
Odour threshold:	Not available
pH (sol. 10%) :	2.5 – 3.0
Melting point:	Not available
Initial boiling point:	Not available
Flash point:	Not applicable
Evaporation rate (butyl acetate = 1):	Not available
Flammability:	Not flammable
LIL:	Not applicable
UIL:	Not applicable
Vapour pressure:	Not available
Vapour density (air=1):	Not available
Relative density:	Not available
Solubility:	Soluble in water
Partition coefficient (n-octanol/water):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available

SECTION 10 - STABILITY AND REACTIVITY	
Stability and reactivity :	Stable under recommended conditions and expected usage.
Polymerisation:	No.
Conditions to avoid :	Incompatible materials.
Incompatible materials :	Water, humidity, strong oxidizing agents, alkalis.
Hazardous decomposition products :	Carbon oxides, sodium oxides.

SECTION 11 - TOXICOLOGICAL INFORMATION				
Toxicological data:				
Hazardous ingredient	CAS	%	DL ₅₀ (route, species)	CL ₅₀ (species)
Sodium carbonate	497-19-8	7 – 13	2390 mg/kg (oral, rat)	5750 mg/m ³ , 2h (rat)
Sulfamic acid	5329-14-6	7 – 13	3160 mg/kg (oral, rat)	No data.
Alcohols C16-C18 ethoxylated	68439-49-6	3 – 7	1260 mg/kg (oral, rat)	No data.
Citric acid	77-92-9	3 – 7	11700 mg/kg (oral, rat) >2000 mg/kg (dermal, rat)	No data.
Polycarboxylate	5225-49-9	3 – 7	>5000 mg/kg (oral, rat) >2000 mg/kg (dermal, rat)	No data.
Short term exposure (acute) :				
Inhalation:	May cause respiratory irritation. Cough, itching.			
Skin:	Causes skin irritation. Redness, itching.			
Eyes:	Causes serious eye irritation. Pain, redness, tearing.			
Ingestion:	Harmful if swallowed. Irritation of the digestive system, nausea, vomiting, diarrhoea.			
Long term exposure (chronic) :				
Inhalation:	No data.			
Skin:	No data.			
Eyes:	No data.			
Ingestion:	No data.			
Carcinogenicity :	Not classified.			
Teratogenicity:	No data.			
Mutagenicity:	No data.			
Target organ:	No data.			
Conditions aggravated by exposure :	No data.			

SECTION 12 - ECOLOGICAL INFORMATION				
Hazardous ingredient	CAS	%	Value	Species
Sodium carbonate	497-19-8	7 – 13	LC50 300 mg/L, 96h EC50 265 mg/L, 48h	Lepomis macrochirus Daphnia magna
Sulfamic acid	5329-14-6	7 – 13	LC50 70.3 mg/L, 96h	Pimephales promelas
Alcohols C16-C18 ethoxylated	68439-49-6	3 – 7	LC50 0.464 – 1.0 mg/L, 96h	Danio rerio
Citric acid	77-92-9	3 – 7	LC50 440 mg/L, 48h EC50 1535 mg/L, 24h	Leuciscus idus melatonus Daphnia magna
Polycarboxylate	5225-49-9	3 – 7	LC50 >100 mg/L, 96h EC50 >100 mg/L, 48h NOEC 90 mg/L, 21j NOEC 10 mg/L, 21j	Danio rerio Daphnia magna Oncorhynchus mykiss Daphnia magna
Persistence and degradability :	Not determined.			
Bioaccumulation potential:	Not determined.			
Mobility in soil:	Not determined.			
Other adverse effects :	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.				
Special precautions:	Keep below 30°C.			
Environmental dangers:	Avoid release to the environment.			

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

Prepared by:	Laboratoire Campeau Inc. 61 rue Des Menuisiers, Local 106 Sainte-Anne-Des-Plaines, Qc, J0N1H0
Telephone :	(514) 642-6669
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Abbreviations:

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 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.