



**SAFETY DATA SHEET**

**1 – IDENTIFICATION**

IDENTIFIER	CITRUS MAX
PRODUCT CODE	839-05
RECOMMENDED USE	Citrus all purpose cleaner.
RESTRICTIONS ON USE	Do not use with other cleaning products
SUPPLIER / MANUFACTURER	AUTO-CHEM INC 33 de Lyon Repentigny, QC J5Z 4Z3 450-654-9292 www.autochem.com
EMERGENCY TELEPHONE	CANUTEC 1-613-996-6666 (24 hours)

**2 – HAZARD IDENTIFICATION**

CLASSIFICATION	Corrosive to metals 1 Skin corrosion 1B Severe eye damage 1 Specific target organ exposure, single exposure; Respiratory tract irritation 3 Specific target organ exposure, single exposure; Narcotic effect 3	
LABEL ELEMENTS		
SIGNAL WORD	DANGER	
HAZARD STATEMENT	H290 H314 H318 H335 H336	May be corrosive to metals. Causes severe skin burns and eye damage. Causes serious eye damage. May cause respiratory irritation. May cause drowsiness or dizziness.
PRECAUTIONARY STATEMENTS – PREVENTION	P234 P260 P264 P271 P280	Keep only in original packaging. Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
PRECAUTIONARY STATEMENTS – RESPONSE	P301+P330+P331 P303+P361+P353  P363 P304+P340  P310	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water (or shower). Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

	P321 P305+P351+P338  P390	Specific treatment: Treat as chemical burns. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Absorb spillage to prevent material damage.
PRECAUTIONARY STATEMENTS – STORAGE	P403+P233  P406  P405	Store in a well-ventilated place. Keep container tightly closed. Store in a corrosion resistant container or with a resistant inner liner. Store locked-up.
PRECAUTIONARY STATEMENTS - ELIMINATION	P501	Dispose contents/containers according to municipal, provincial and federal regulations.
OTHER HAZARDS	Not applicable.	

### 3 – COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	C.A.S	CONCENTRATION
Sodium metasilicate	6834-92-0	1.8
Alcohol C6-C12, ethoxylated, propoxylated	68937-66-6	2.8-3.6
Alcohol C10-C16, ethoxylated, propoxylated	69227-22-1	1.2-2.0
D-Limonene	5989-27-5	2.2

### 4 – FIRST AID MEASURES

ROUTE OF EXPOSURE	Inhalation, eyes, skin, ingestion
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INHALATION	IF INHALED: remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CONTROL CENTER or physician.
DERMAL	IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
OCULAR	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.
ORAL	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	Specific treatment: Treat as chemical burns.

### 5 – FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA	Chemical foam, CO <sub>2</sub> , water mist.
UNSUITABLE EXTINGUISHING MEDIA	Direct water jet will cause important formation of foam.
SPECIFIC HAZARDS	Carbon oxides, nitrogen oxides, acrid smoke.
PROTECTIVE EQUIPMENT	Fire-fighters must wear protective equipment and NIOSH approved

	self-contained breathing apparatus.
PRECAUTIONS	Do not let water run-off reach sewers, ditches or waterways.

## 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.

## 7 – HANDLING AND STORAGE

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. 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.
STORAGE	Store in a well-ventilated place. Keep cool. Store away from incompatible materials. Keep containers closed.
INCOMPATIBLE MATERIALS	Strong oxidants, acids.

## 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

CHEMICAL NAME	C.A.S.	SOURCE	VALUE
Sodium metasilicate	6834-92-0		No established limits.
Alcohol C6-C12, ethoxylated, propoxylated	68937-66-6		No established limits.
Alcohol C10-C16, ethoxylated, propoxylated	69227-22-1		No established limits.
D-Limonene	5989-27-5	ACGIH OSHA	TWA 20 ppm TWA 50 ppm

ENGINEERING CONTROLS	Use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels to an acceptable level.
RESPIRATORY PROTECTION	Maintain atmospheric concentrations below exposure limits. If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator. In case of spill or leak resulting in unknown concentration, use a NIOSH approved supplied air respirator.
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.
OCULAR PROTECTION	Chemical goggles; also wear a face shield if splashing hazard exists.

GENERAL HYGIENE RECOMMENDATIONS	Ensure that eyewash stations and safety showers are proximal to the work-station location. 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.
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## 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Blue viscous liquid, transparent.
ODOUR	Citrus.
ODOUR TRESHOLD	Not available.
pH	14
MELTING / FREEZING POINT	0°C
INITIAL BOILING POINT	100°C
FLASH POINT	Not applicable.
EVAPORATION RATE	Not available.
FLAMMABILITY	Not flammable
LOWER FLAMMABLE/EXPLOVISE LIMIT	Not applicable.
UPPER FLAMMABLE/EXPLOSIVE LIMIT	Not applicable.
VAPOUR PRESSURE	Not available.
VAPOUR DENSITY	Not available.
RELATIVE DENSITY	1.01
SOLUBILITY (in water)	Soluble
PARTITION COEFFICIENT (n-octanol/water)	Not available.
AUTO-IGNITION TEMPERATURE	Not available.
DECOMPOSITION TEMPERATURE	Not available.
VOC	21.9 g/L (0.0217 Kg/Kg)
VISCOSITY	<10 cPs

## 10 – STABILITY AND REACTIVITY

REACTIVITY	Stable under recommended usage.
CHEMICAL STABILITY	Stable under normal usage conditions.
HAZARDOUS REACTIONS	Polymerization will not occur.
CONDITIONS TO AVOID	Incompatible materials.
INCOMPATIBLE MATERIALS	Strong oxidizers, acids, other cleaning products.
HAZARDOUS DECOMPOSITION PRODUCTS	Carbone oxides, nitrogen oxides, irritating smoke.
ADDITIONAL INFORMATION	None

## 11 – TOXICOLOGICAL INFORMATION

ACUTE EFFECTS	
INHALATION	No harmful effect reported.
DERMAL	Causes severe skin burns. Redness, pain, oedema, itching.
OCULAR	Causes severe eye damage. Redness, pain, tearing. May cause damage to the cornea.
ORAL	May cause burns to mouth and throat. Nausea, vomiting, diarrhoea.
CHRONIC EFFECTS	
INHALATION	No data
DERMAL	No data
OCULAR	No data
ORAL	No data
ADDITIONAL INFORMATION	
CARCINOGENIC EFFECTS (IARC)	D-Limonene      5989-27-5      Group 3: Not classifiable as a Human Carcinogen..
MUTAGENIC EFFECTS	No data
TERATOGEN EFFECTS	No data
REPRODUCTION	No data
SENSIBILISATION	No data
TARGET ORGANS	No data
AGGRAVATED CONDITIONS	No data
SYNERGISTIC SUBSTANCES	No data

CHEMICAL NAME	C.A.S.	LD50 ORAL mg/kg	LD50 DERMAL mg/kg	LC50 INHALATION
Sodium metasilicate	6834-92-0	1152 – 1349, rat	>5000, rat	>2060 mg/m <sup>3</sup> , rat
Alcohol C6-C12, ethoxylated, propoxylated	68937-66-6	>5050, rat	>2000, rabbit	No data
Alcohol C10-C16, ethoxylated, propoxylated	69227-22-1	>5000, rat	>2000, rabbit	No data
D-Limonene		4400, rat	>5000, rabbit	No data

## 12 – ECOLOGICAL INFORMATION

Sodium metasilicate	6834-92-0
CL50 210 mg/L, 96hrs	Danio rerio
CE501 1700 mg/L, 48hrs	Daphnia magna

Alcohol C6-C12, ethoxylated	68937-66-6
CL50 22.5 mg/L, 96h	Pimephales promelas
CE50 14.4 mg/L, 48h	Daphnia magna

Alcohol C10-C16, ethoxylated, propoxylated	69227-22-1
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CL50 22.5 mg/L, 96h	Pimephales promelas
CE50 14.4 mg/L, 48h	Daphnia magna

D-Limonène	5989-27-5
CL50 35 mg/L, 96h	Oncorhynchus mykiss
CL50 0.61 – 0.79 mg/L, 96h	Pimephales promelas
CL50 0.730 mg/L, 48h	Daphnia pulex
CL50 0.577 mg/L, 48h	Daphnia magna

PERSISTENCE AND DEGRADABILITY	Not available.
BIOACCUMULATIVE POTENTIAL	Not available.
SOIL MOBILITY	Not available.
OTHER ADVERSE EFFECTS	Not available.
ADDITIONAL INFORMATION	Do not let material or fire-fighting water run-off enter sewers or waterways. Obstruct drains and ditches. Affected areas must be cleaned and restored to their original conditions or to the satisfaction of the authorities.

**13 – DISPOSAL CONSIDERATIONS**

DISPOSAL METHOD	Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.
CONTAMINATED PACKAGING	Empty containers should be recycled or disposed of through an approved waste management facility.

**14 – TRANSPORT INFORMATION**

TRANSPORT OF DANGEROUS GOODS (CANADA)				
UN NUMBER	PROPER SHIPPING NAME	CLASS	PACKING GROUP	PLACARD
UN1760	CORROSIVE LIQUID N.O.S. (Sodium metasilicate)	8	III	
LIMITED QUANTITY : 5 L				

MARINE POLLUTANT	No
SPECIAL PRECAUTIONS	None

**15 – REGULATORY INFORMATION**

CANADA	
CEPA	All components of this product are either listed or exempt from listing on the Domestic substances List (DSL).
USA	
TSCA	All components of this product are either listed or exempt from listing on the Toxic Substances Control Act (TSCA) Inventory.

## 16 – OTHER INFORMATION

VERSION	2.0
DATE	15 March 2018
PREPARED BY	AUTO-CHEM INC
ABBREVIATIONS	ABBREVIATIONS
ACGIH	American Conference of Governmental Industrial Hygienists
AIHA	American Industrial Hygiene Association
CAS	Chemical Abstract Service
CEPA	Canadian Environmental Protection Act
CIRC	Centre International pour la Recherche sur le Cancer
CL / LC	Concentration létale /Lethal concentration
DL / LD	Dose létale / Lethal dose
CE / EC	Concentration efficace / Effective concentration
IARC	International Agency for Research on Cancer
LCPE	Loi Canadienne sur la Protection de l'Environnement
LES/NDSL	Liste extérieure des substances / Non domestic substances list
LIS/DSL	Liste intérieure des substances / Domestic substances list
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
STOT	Specific target organ toxicity
TCOC	Toxicité pour certains organes cibles
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
USEPA	United States Environmental Protection Agency
VECD	Valeur exposition courte durée
VEMP	Valeur exposition moyenne pondérée
WHMIS	Workplace Hazardous Materials Information System
NOTICE TO READER	All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Auto-Chem makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Auto-Chem's control and therefore users are responsible to verify this data under their own operation conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling and disposal of the product or from the publication or use of, or reliance upon, information contained herein. 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

