SAFETY DATA SHEET

1 – IDENTIFICATION

IDENTIFIER	Household vinegar 20% Osmose
PRODUCT CODE	
RECOMMENDED USE	Anti-scale.
RESTRICTIONS ON USE	
SUPPLIER / MANUFACTURER	TOTAL FABRICATION 511 Route 289 St-Alexandre-de-Kamouraska, Qc G0L 2G0 418-970-0889
EMERGENCY TELEPHONE	418-970-0889 Monday to Friday, 9h00 to 17h00

2 – HAZARD IDENTIFICATION

CLASSIFICATION	Skin irritation 2 Severe eye damage 1 Specific target organ exposure, single exposure; Respiratory tract irritation 3	
LABEL ELEMENTS		
SIGNAL WORD	DANGER	
HAZARD STATEMENT	H315 H318 H335	Causes skin irritation. Causes serious eye damage. May cause respiratory irritation.
PRECAUTIONARY STATEMENTS – PREVENTION	P264 P280 P261 P271	Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust / fume / gas / mist / vapours /spray. Use only outdoors or in a well-ventilated area.
PRECAUTIONARY STATEMENTS – RESPONSE	P302+P352 P321 P332+P313 P362+P364 P305+P351+P338 P310 P304+P340	IF ON SKIN: Wash with plenty of water. Specific treatment: Cover irritated skin with an emollient. 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. Immediately call a POISON CENTER/doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing.

	P312	Call a POISON CENTER/doctor if you feel unwell.
PRECAUTIONARY STATEMENTS – STORAGE	P403+P233 P405	Store in a well ventilated place. Keep container tightly closed. 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
Acetic acid	64-19-7	10 – 30 *

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

4 – FIRST AID MEASURES

ROUTE OF EXPOSURE	Inhalation, eyes, skin, ingestion

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 symptomatically. Particular attention must be given to kidney functions.

5 – FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA	Chemical foam, dry chemical powder, CO2, water spray, sand.
UNSUITABLE EXTINGUISHING MEDIA	Direct water jet.
SPECIFIC HAZARDS	Carbon 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. Water run-off may be corrosive. Vapours may be corrosive.

6 – ACCIDENTAL RELASE 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 acids, strong bases, metals, reducing agents, oxidizing agents.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

CHEMICAL NAME	C.A.S.	SOURCE	VALUE
Acetic acid	64-19-7	CNESST CNESST CNESST NIOSH NIOSH OSHA	TWA 10 ppm, 25 mg/m3 STEL 15 ppm, 37 mg/m3 HDLH 50 ppm, 123 mg/m3 TWA 10 ppm, 25 mg/m3 STEL 15 ppm, 37 mg/m3 TWA 10 ppm, 25 mg/m3

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. Ensure that eyewash stations, showers and cleaning stations are near to workstation.
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 workstations. Good hygiene is recommended after using this product. Clean clothing before reuse.

9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid, transparent, colourless.

ODOUR	Vinegar.
ODOUR TRESHOLD	0.074 ppm
pH	1.0 – 2.0
MELTING / FREEZING POINT	Not available.
INITIAL BOILING POINT	Not available.
FLASH POINT	Not applicable.
EVAPORATION RATE	Not available.
FLAMMABILITY	Not flammable.
LOWER FLAMMABLE/EXPLOVISE LIMIT	4.0% (pure acetic acid)
UPPER FLAMMABLE/EXPLOSIVE LIMIT	19.9% (pure acetic acid)
VAPOUR PRESSURE	Not available.
VAPOUR DENSITY	Not available.
RELATIVE DENSITY	1.04
SOLUBILITY (in water)	Soluble.
PARTITION COEFFICIENT (n-octanol/water)	Not available.
AUTO-IGNITION TEMPERATURE	Not available.
DECOMPOSITION TEMPERATURE	Not available.
VOC	Not available.
VISCOSITY	1.6 cSt

10 – STABILITY AND REACTIVITY

REACTIVITY	Stable under recommended usage. Thermal decomposition generates corrosive vapours.
CHEMICAL STABILITY	Stable under normal usage conditions.
HAZARDOUS REACTIONS	Polymerization will not occur. Reacts violently with certain bases, generates heat.
CONDITIONS TO AVOID	Direct sunlight, extreme temperatures, incompatible materials.
INCOMPATIBLE MATERIALS	Strong acids, strong bases, metals, reducing agents, oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon oxides.
ADDITIONAL INFORMATION	None.

11 – TOXICOLOGICAL INFORMATION

ACUTE EFFECTS	
INHALATION	Symptoms associated with inhaling high concentrations include watery eyes, chest pain, difficulty breathing, coughing and in some cases bronchopneumonia.
DERMAL	Causes skin irritation. Redness, pain, itching.
OCULAR	Causes severe eye damage. Pain, redness, tearing. Contact with the liquid can cause severe burns and/or permanent damage.
ORAL	Burns of the mouth and digestive tract with larynx edema, vomiting of blood,

	possible perforation of the esophagus and stomach, a state of shock and possibly death.
CHRONIC EFFECTS	
INHALATION	No data.
DERMAL	Irritative contact dermatitis can occur during repeated contact with this product that produces drying, cracking and hyperkeratosis.
OCULAR	No data.
ORAL	No data.
ADDITIONAL INFORMATION	
CARCINOGENIC EFFECTS (IARC)	Not classified.
MUTAGENIC EFFECTS	No data.
TERATOGEN EFFECTS	No data.
REPRODUCTION	No data.
SENSIBILISATION	No data.
TARGET ORGANS	Kidneys.
AGGRAVATED CONDITIONS	No data.
SYNERGISTIC SUBSTANCES	No data.

CHEMICAL NAME	C.A.S.	LD50 ORAL mg/kg	LD50 DERMAL mg/kg	LC50 INHALATION
Acetic acid	64-19-7	3310, rat	1060, lapin	1100 mg/m3, 4hrs, rat

12 – ECOLOGICAL INFORMATION

Acetic acid	64-19-7
LC50 79 mg/L, 96h	Pimephales promelas
EC50 65 mg/L, 48h	Daphnia magna
LC50 75 mg/L, 96h	Lepomis macrochirus

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
UN2790	ACETIC ACID SOLUTION, more than 10% and less than 50% acid, by mass	8	III	
LIMITED QUANTITY : 5 L				
FLASH POINT		Not applicable.		

MARINE POLLUTANT	No.
SPECIAL PRECAUTIONS	Keep away from incompatible materials.

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	1.0
DATE	23 juin 2021
PREPARED BY	LABORATOIRE CAMPEAU INC. 61 rue des Menuisiers, local 106 Sainte-Anne-des-Plaines, QC J0N 1H0 450-940-0644
ABBRÉVIATIONS	ABBREVIATIONS
ACGIH AIHA CAS CEPA CIRC CL / LC DL / LD CE / EC IARC	American Conference of Governmental Industrial Hygienists American Industrial Hygiene Association Chemical Abstract Service Canadian Environmental Protection Act Centre International pour la Recherche sur le Cancer Concentration létale /Lethal concentration Dose létale / Lethal dose Concentration efficace / Effective concentration 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 organs 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
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