


1 – IDENTIFICATION

IDENTIFIER	SCALE REMOVAL POWDER
PRODUCT CODE	
RECOMMENDED USE	Scale remover.
RESTRICTIONS ON USE	Industrial use only.
SUPPLIER / MANUFACTURER	SAVONS EVY 3460 39e Avenue Montréal, QC H1A 3V1 514-642-9920
EMERGENCY TELEPHONE	514-642-9920, Monday to Friday, 9h00 to 17h00

2 – HAZARD IDENTIFICATION

CLASSIFICATION	Acute toxicity - oral 4 Skin irritation 2 Severe eye damage 1	
LABEL ELEMENTS		
SIGNAL WORD	DANGER	
HAZARD STATEMENT	H302 H315 H318	Harmful if swallowed. Causes skin irritation. Causes serious eye damage.
PRECAUTIONARY STATEMENTS – PREVENTION	P264 P270 P280	Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.
PRECAUTIONARY STATEMENTS – RESPONSE	P301+P312 P330 P302+P352 P321 P332+P313 P362+P364 P305+P351+P338 P310	IF SWALLOWED: Immediately call a POISON CENTER/physician. Rinse mouth. IF ON SKIN: Wash with plenty of water. Specific treatment: Rinse with running water for 15 minutes. 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.
PRECAUTIONARY STATEMENTS –		

STORAGE		
PRECAUTIONARY STATEMENTS - ELIMINATION	P501	Dispose contents/containers according to municipal, provincial, and federal regulations.
OTHER HAZARDS	This product could belong to the "Combustible Dust" danger class depending on various factors that influence the combustibility and explosiveness of dust, including the composition, shape, and size of the particles.	

3 – COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	C.A.S.	CONCENTRATION
Citric acid	77-92-9	45 – 70 *
Oxalic acid	144-92-7	45 – 70 *

* 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
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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 symptomatically. Ingestion of oxalic acid causes calcium to be chelated. Within an hour of ingestion, hypocalcemia can cause paresthesia, convulsions, tremors, and heart problems. Kidney failure due to tubular precipitation of calcium oxalate is sometimes observed as a result of ingestion of the product. The average lethal dose in humans is between 15 and 30 grams, but some sources report that a dose of 5 grams can be fatal.

5 – FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA	Water spray, alcohol-resistant foam, dry chemical, or CO2.
UNSUITABLE EXTINGUISHING MEDIA	Direct water jet may disperse product.
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.

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	Alkalis, strong oxidizing agents.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

CHEMICAL NAME	C.A.S.	SOURCE	VALUE
Citric acid	77-92-9		No established limits.
Oxalic acid	144-92-7	CNESST CNESST CNESST ACGIH ACGIH	TWA 1 mg/m ³ STEL 2 mg/m ³ IDLH 500 mg/m ³ TWA 1 mg/m ³ STEL 2 mg/m ³

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	Solid, white powder.
ODOUR	Odourless.
ODOUR TRESHOLD	Not available.
pH (0.1M solution)	< 2.0
MELTING / FREEZING POINT	Not available.
INITIAL BOILING POINT	Not available.
FLASH POINT	Not applicable.
EVAPORATION RATE	Not available.
FLAMMABILITY	Not flammable. This product could belong to the "Combustible Dust" danger class depending on various factors that influence the combustibility and explosiveness of dust, including the composition, shape, and size of the particles.
LOWER FLAMMABLE/EXPLOVISE LIMIT	Not applicable.
UPPER FLAMMABLE/EXPLOSIVE LIMIT	Not applicable.
VAPOUR PRESSURE	Not available.
VAPOUR DENSITY	Not available.
RELATIVE DENSITY	Not available.
SOLUBILITY (in water)	Soluble.
PARTITION COEFFICIENT (n-octanol/water)	Not available.
AUTO-IGNITION TEMPERATURE	Not available.
DECOMPOSITION TEMPERATURE	Not available.
VOC	Not applicable.
VISCOSITY	Not applicable.

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	Moisture, incompatible materials.
INCOMPATIBLE MATERIALS	Alkalis, strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon oxides.
ADDITIONAL INFORMATION	None.

11 – TOXICOLOGICAL INFORMATION

ACUTE EFFECTS	
INHALATION	Fine dust can cause temporary irritation of the airways. Coughing, sneezing.

DERMAL	Causes skin irritation. Redness, irritation, itching, burning sensation.
OCULAR	Causes serious eye damage. Redness, pain, tearing. May cause permanent damage to the cornea.
ORAL	Harmful if swallowed. Burning of mouth and digestive tract, nausea, vomiting, abdominal pain.
CHRONIC EFFECTS	
INHALATION	No data.
DERMAL	Prolonged contact with oxalic acid solutions produces various skin lesions that worsen over time: brittle and blackish nails, numbness of the limbs, and then gangrenous cyanosis of the hands and feet.
OCULAR	No data.
ORAL	Possibility of local irritation and dental erosion when eating high doses.
ADDITIONAL INFORMATION	
CARCINOGENIC EFFECTS (IARC)	Not classified.
MUTAGENIC EFFECTS	No data.
TERATOGEN EFFECTS	No data.
REPRODUCTION	No data.
SENSIBILISATION	Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.
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
Citric acid	77-92-9	5400, mouse	>2000, rat	No data.
Oxalic acid	144-92-7	375, rat	>20000, rabbit	No data.

12 – ECOLOGICAL INFORMATION

Citric acid	77-92-9
LC50 440 mg/L, 48h	Leuciscus idus melanotus
LC50 1.535 mg/L, 24h	Daphnia magna

Oxalic acid	144-92-7
LC50 160 mg/L, 48h	Leuciscus idus melanotus
LC50 162.2 mg/L, 24h	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.
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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)	Not regulated for transport.
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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	28 October 2020
PREPARED BY	LABORATOIRE CAMPEAU INC. 61 rue des Menuisiers, local 106 Sainte-Anne-des-Plaines, QC J0N 1H0 450-940-0644
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, Laboratoire Campeau makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Laboratoire Campeau'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.