



Chandler
225 Thorne Avenue
Saint John, NB, E2L 4L9
Canada
(506) 658-8000

PRODUCT: SAFETEE SHINE WASHROOM & FIXTURE CLEANER
SECTION 01: IDENTIFICATION

Supplier identifier..... Chandler
225 Thorne Avenue
Saint John
New Brunswick
Canada
E2L 4L9

Product identifier..... SAFETEE SHINE WASHROOM & FIXTURE CLEANER

Emergency telephone number..... 1(800)363-9611.

Product use..... Acid cleaner.

Restriction on use..... For industrial, institutional and food plant use only.

SECTION 02: HAZARD IDENTIFICATION


According to Hazardous Products
Regulations (HPR) (SOR/2015-17)

Hazard classification..... Serious Eye Damage — Category 1.

Signal Word..... DANGER.

Hazard statement..... H318 Causes serious eye damage.

Precautionary statements..... P280 Wear eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician.

Other hazards..... None.

Supplemental Information..... Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Material can be slippery when wet.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Citric acid, anhydrous	72-92-9	10-30
<The exact concentration of composition has been withheld as a trade secret>		

SECTION 04: FIRST-AID MEASURES

Routes of exposure

Inhalation..... No specific treatment is necessary since this material is not likely to be hazardous by inhalation.

Ingestion..... Rinse mouth and then drink plenty of water. Do not induce vomiting. If symptoms persist, obtain medical attention.

Skin contact..... Wash thoroughly with soap and water.

Eye contact..... Immediately flush with plenty of water for at least 20 minutes. Keep eye wide open while rinsing. Obtain medical attention immediately.

Most important symptoms and effects, both acute and delayed..... The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

SECTION 05: FIRE-FIGHTING MEASURES

Extinguishing media..... Use an extinguishing agent suitable for the surrounding fire. Do not use water jet as an extinguisher, as this will spread the fire.

Hazardous combustion products..... Carbon monoxide, carbon dioxide, hydrocarbons. Nitrogen oxides (NOx). Oxides of sulphur

PRODUCT: SAFETEE SHINE WASHROOM & FIXTURE CLEANER**SECTION 05: FIRE-FIGHTING MEASURES**

Special protective equipment and precautions	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Firefighters should be equipped with self-contained breathing apparatus and turn-out gear. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Containers may explode when heated .
Sensitivity to static discharge	Product is not sensitive to static discharge.
Sensitivity to mechanical impact	Product is not sensitive to mechanical impact.
Further information	Not applicable.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid run off to waterways and sewers. Do NOT wash away into sewer.
Environmental precautions	Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods.
Methods and materials for containment and cleaning up	For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Absorb spill with inert material (e.g. dry sand or earth) and place in a chemical waste container. Recycle, if possible. Clean up affected area with a large amount of water. Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water.

SECTION 07: HANDLING AND STORAGE

Handling precautions	Avoid contact with skin and eyes.
Storage needs	Keep out of reach of children. Keep containers closed when not in use. Store in a well-ventilated, cool, dry area.
Materials to avoid	Keep away from strong acids. Keep away from strong bases. Keep away from oxidizing agents.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
Citric acid, anhydrous	not available	not available	not available	not available	not available	not available
Engineering controls	No special ventilation requirements. Eye wash bottle with pure water .					
Individual protection measures						
Eye/type	Safety glasses with side-shields. Wear face shield if splashing hazard exists.					
Gloves/type	None required under normal conditions of use .					
Respiratory/type	None necessary under normal conditions of use.					
Hygiene measures	Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities.					

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	thick liquid.
Color	blue.
Odour	characteristic.
Odour threshold	not available.
pH	1.1-1.3.
Melting point (°C)	not applicable.
Freezing point (°C)	0.
Initial boiling point (°C)	100.
Flash point (°C), Method	>94 CC.
Evaporation rate	not available.
Upper flammability limit (% vol)	not available.
Lower flammability limit (% vol)	not available.
Vapour pressure (mm Hg)	17.5.
Vapour density (air=1)	not available.
Relative density/Specific Gravity	1.07.
Water solubility	soluble.
Solubility in other solvents	not available.
Partition coefficient — n-octanol/water	not available.
Auto ignition temperature (°C)	
Thermal decomposition temperature	not available.
Viscosity	1000 cPs at 22 deg. C.

PRODUCT: SAFETEE SHINE WASHROOM & FIXTURE CLEANER**SECTION 10: STABILITY AND REACTIVITY**

Reactivity.....	No hazardous reactions if stored and handled as prescribed/indicated.
Chemical stability.....	The product is stable if stored and handled as prescribed/indicated.
Possibility of hazardous reactions.....	No data available.
Conditions to avoid.....	Contact with incompatible materials.
Incompatible materials.....	Acids and bases. Strong oxidizing agents. Acids, soft metals.
Hazardous decomposition products.....	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Citric acid, anhydrous	not available	5,400 mg/kg (oral-rat); >2,000 mg/kg (dermal-rabbit)
Routes of exposure		
Inhalation.....	None expected under normal use.	
Ingestion.....	Ingestion of this product may cause nausea, vomiting and diarrhea.	
Skin contact.....	Prolonged or repeated contact may dry skin and cause irritation.	
Eye contact.....	Can cause eye damage.	
Acute effects		
Acute oral toxicity.....	Acute toxicity estimate > 2,000 mg/kg. Method: calculation method. Virtually nontoxic after a single ingestion.	
Acute dermal toxicity.....	LD50 (Rabbit) : > 2,000 mg/kg. Method: calculation method. Virtually nontoxic after a single skin contact.	
Acute inhalation toxicity.....	Virtually nontoxic by inhalation. Acute toxicity estimate : > 20 mg/l. Exposure time: 4 h. Method: calculation method.	
Skin corrosion/irritation.....	Non-irritant.	
Serious eye damage/eye irritation.....	Result: Corrosive to eyes.	
Respiratory or skin sensitisation.....	Non-sensitizing.	
Specific target organ toxicity (STOT) single exposure	Based on the available information there is no specific target organ toxicity to be expected after a single exposure.	
Aspiration hazard.....	No aspiration hazard expected.	
Chronic toxicity/effects		
Specific target organ toxicity (STOT) repeated exposure	No known significant effects or critical hazards.	
Carcinogenicity.....	No carcinogenic substances as defined by IARC, NTP, OSHA and/or ACGIH.	
Reproductive toxicity.....	No known significant effects or critical hazards.	
Germ Cell Mutagenicity.....	No known significant effects or critical hazards.	
Remarks.....	The product has not been tested. The statement has been derived from the properties of the individual components.	
Symptoms of Exposure.....	The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.	

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity.....	Not expected to be harmful to aquatic organisms.
Persistence and degradability.....	The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.
Bioaccumulative potential.....	No data available.
Mobility in soil.....	No data available.
Other adverse effects.....	No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods	
Waste disposal of substance.....	Dispose of in accordance with national, state and local regulations.
Container disposal	Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

SECTION 14: TRANSPORT INFORMATION

TDG classification.....	Not classified as a dangerous good under transport regulations.
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PRODUCT: SAFETEE SHINE WASHROOM & FIXTURE CLEANER**SECTION 15: REGULATORY INFORMATION**

WHMIS regulatory status..... This product has been classified in accordance with the hazard criteria of the Canadian Hazardous Products Regulations and the Safety Data Sheet contains all the information required by the Hazardous Products Regulations (WHMIS 2015). This product is WHMIS 2015 controlled.

Canada DSL and NDSL..... All ingredients are listed in the Domestic Substances List (DSL).

SECTION 16: OTHER INFORMATION

Disclaimer..... The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

Prepared by: CanChem Consultant

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