



Stainless Steel Solutions, LLC

Stainless Steel Hard Water Stain Remover Safety Data Sheet

Section 1. Identification

Product Name: 619L-Stainless Steel Hard Water Stain Remover

Product Code: 619L-PRO

Recommended use: Stainless Steel Polish

Restrictions on use: Use only as directed

Manufacturer Name: Stainless Steel Solutions, LLC

Address: 3740 Prospect Avenue #3
West Palm Beach, Florida 33404

Telephone number: 888-604-5586

Emergency phone number: 888-604-5586

Date of Preparation: September 13, 2013

Section 2. Hazard(s) Identification

Classification:

Physical	Health
None	Eye Damage Category 1 Carcinogenicity Category 1A

Danger!



Hazard statements

Causes serious eye damage.
May cause cancer.

Precautionary statements

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves, protective clothing, eye protection or face protection.
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.
IF exposed or concerned: Get medical attention.
Store locked up.
Dispose of contents and container in accordance with local and national regulations.

Section 3. Composition / Information on Ingredients

Chemical name	CAS No.	Concentration
Feldspar	68476-25-5	80-85%
Crystalline Silica Quartz	14808-60-7	5-10%
Oxalic Acid	144-62-7	5-10%
Surfactant	Proprietary	1-5%

The specific identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Section 4. First-Aid Measures

Inhalation: Remove to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult have qualified personnel administer oxygen. Get medical attention.

Skin contact: Wash skin with soap and water. Remove contaminated clothing and launder before reuse. Get medical attention if irritation develops or persists.

Eye contact: Immediately flush eye with water for 20 minutes while lifting the upper and lower lids. Get immediate medical attention.

Ingestion: If conscious, wash out mouth with water. DO NOT induce vomiting. Never give anything by mouth to a person who is unconscious or convulsing. Get immediate medical attention.

Most important symptoms/effects, acute and delayed: Causes severe eye irritation or burns. Prolonged or repeated skin contact may cause irritation. Inhalation of dust may cause upper respiratory tract irritation. Ingestion may cause burns to the mouth, throat or stomach. Excessive inhalation of respirable crystalline silica dust may cause lung damage. May cause cancer. Risk of cancer depends on duration and level of exposure.

Indication of immediate medical attention and special treatment, if necessary: If eye contact or swallowing occurs, get immediate medical attention.

Section 5. Fire-Fighting Measures

Suitable (and unsuitable) extinguishing media: This material is not combustible. Use any media that is suitable for the surrounding fire.

Specific hazards arising from the chemical: None known.

Special protective equipment and precautions for fire-fighters: Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus. Cool fire exposure containers with water.

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Wear appropriate protective clothing and equipment to prevent eye and skin contact.

Environmental precautions: Prevent spill from entering sewers and water courses. Report spill as required by local and federal regulations.

Methods and materials for containment and cleaning up: Avoid generating dust. Use a dustless vacuum and place in appropriate containers for disposal. Do not sweep up. Rinse spill area with water.

Section 7. Handling and Storage

Precautions for safe handling: Prevent contact with eye. Avoid contact with the eyes, skin and clothing. Do not breathe dust. Avoid dust generation. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use.

Empty containers retain product residues. Follow all SDS precautions in handling empty containers.

Conditions for safe storage, including any incompatibilities: Protect containers from physical damage. Store in a cool, well ventilated area away from oxidizing agents and other incompatible materials.

Section 8. Exposure Controls / Personal Protection

Exposure guidelines:

Feldspar	5 mg/m ³ TWA OSHA PEL (respirable fraction) 15 mg/m ³ TWA OSHA PEL (total dust)
Crystalline Silica Quartz	10 mg/m ³ TWA PEL (respirable fraction) % Silica + 2 0.025 mg/m ³ TWA TLV (respirable fraction)
Oxalic Acid	1 mg/m ³ TWA OSHA PEL 1 mg/m ³ TWA ACGIH TLV 2 mg/m ³ Ceiling ACGIH TLV
Surfactant	None Established

Appropriate engineering controls: Use with adequate local exhaust ventilation to maintain exposures below the occupational exposure limits.

Personal Protective Equipment:

Respiratory protection: None should be needed for normal use. If the exposure limits are exceeded a NIOSH approved high efficiency particulate respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 or local regulations and good industrial hygiene practice.

Skin protection: Rubber, butyl rubber or other impervious gloves are recommended to prevent skin contact. Impervious apron, boots and other clothing are recommended if needed to prolonged skin prevent.

Eye protection: Chemical safety goggles should be worn if contact is possible.

Other: For operations where contact can occur, an eye wash facility should be available.

Section 9. Physical and Chemical Properties

Appearance: Off white powder.

Odor: No odor.

Odor threshold: Not available	pH: Not applicable
Melting point/freezing point: Not applicable	Boiling point: Not applicable
Flash point: Not flammable	Evaporation rate: Not applicable
Flammability (solid, gas): Not flammable	

Flammable limits: LEL: Not applicable	UEL: Not applicable
Vapor pressure: Not applicable	Vapor density: >1
Relative density: Not available	Solubility in Water: Insoluble
Partition coefficient: n-octanol/water: Not available	Auto-ignition temperature: Not applicable
Decomposition temperature: Not available	

Section 10. Stability and Reactivity

Reactivity: Not reactive under normal conditions of use.

Chemical stability: Stable

Possibility of hazardous reactions: None known.

Conditions to avoid: None known. .

Incompatible materials: Avoid oxidizing agents and reducing agents.

Hazardous decomposition products: Thermal decomposition may yield carbon monoxide, carbon dioxide, sulfur oxides and formic.

Section 11. Toxicological Information

Acute effects of exposure:

Inhalation: Dust may cause mucous membranes and respiratory tract irritation with coughing, sneezing and shortness of breath.

Skin Contact: Prolonged or repeated skin contact may cause irritation, redness and drying of the skin.

Eye Contact: May cause severe irritation or burns with redness and tearing of the conjunctive. May cause permanent eye damage.

Ingestion: May cause severe irritation or burns to the mouth, throat or stomach, abdominal pain nausea or diarrhea. If swallowed, oxalic acid may bind to calcium in the blood, causing effects of the kidneys and blood.

Chronic Effects: This product contains crystalline silica. Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling and sometimes fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function.

Sensitization: None of the components are sensitizing to animals or humans.

Germ Cell Mutagenicity: None of the components have been shown to cause germ cell mutagenicity.

Reproductive Toxicity: Oxalic acid has been shown to cause embryotoxic effects in an invitro with laboratory animals. The relevance of the results of the study to humans is unknown.

Carcinogenicity: Crystalline silica quartz is listed as "Carcinogenic to Humans" (Group 1) by IARC, "Known to be a Human Carcinogen" by NTP and a Suspected Human Carcinogen (A2) by ACGIH and as a carcinogen by OSHA. All the other components greater than 0.1% are not listed as a carcinogen by IARC, NTP, ACGIH and OSHA.

Acute toxicity values:

Feldspar: Not toxicity data available

Crystalline Silica Quartz: Oral rat LD50 >22,500 mg/kg

Oxalic Acid: Oral rat LD50 375 mg/kg; Dermal rabbit LD50 20000 mg/kg.

Surfactant: Oral rat LD50 438 mg/kg

Section 12. Ecological Information

This product may be harmful to aquatic organisms due to change in pH of water where released.

Ecotoxicity values:

Feldspar: No data available

Crystalline Silica Quartz: No data available

Oxalic Acid: 48 hr LC50 leuciscus idus melanotus 160 mg/L; 48 hr daphnia magna 162.2 mg/L

Surfactant: No data available

Persistence and degradability: Surfactant and oxalic acid are readily biodegradable. Biodegradation is not applicable to inorganic substances such feldspar and crystalline silica quartz.

Bioaccumulative potential: The calculated BCF is 0.6 for oxalic acid.

Mobility in soil: Oxalic acid will be highly mobile in soil.

Other adverse effects: None known.

Section 13. Disposal Considerations
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Dispose in accordance with all local, state and federal regulations.

Section 14. Transport Information
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	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT		Not Regulated			None
TDG		Not Regulated			None

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable – product is transported only in packaged form.

Special precautions: None known

Section 15. Regulatory Information

Safety, health, and environmental regulations specific for the product in question.

CERCLA Hazardous Substances (Section 103)/RQ: This product is not subject to CERCLA reporting requirements as it is sold. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA Hazard Category (311/312): Acute Health, Chronic Health

EPA SARA 313: This product contains the following chemicals regulated under SARA Title III, section 313: None

California Proposition 65: This product the following chemicals known to the State of California to cause cancer or reproductive toxicity: Crystalline Silica Quartz (14808-60-7) 5-10% (cancer)

EPA TSCA Inventory: All of the components of this product are listed on the TSCA inventory.

CANADA:

Canadian CEPA: All the components of this product are listed on the Canadian DSL.

Canadian WHMIS Classification: Class D-2A (Carcinogen), ClassD-2B (eye and skin irritant)

This product has been classified under the CPR and this SDS discloses information elements required by the CPR.

Section 16. Other Information

SDS Revision History: New SDS

Date of preparation: 13 September 2013

Date of last revision: None