Calcium Lime Remover
Safety Data Sheet

Section 1. Identification

Product Name: Calcium Lime Remover

Supplier Name: **Whink Products Company**
Address: **PO Box 230**
1901 15th Ave.
Eldora, IA 50627
Telephone number: **641-939-2353**

Emergency phone number: Medical Emergency: 1-800-222-1222; Chemtrec: 800-424-9300

Recommended use: Cleaning Agent
Restrictions on use: Use only as directed

Date of Preparation: February 23, 2017

Section 2. Hazard(s) Identification

Note: This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The actual container label will not include the label elements below. The labeling below applies to industrial/professional products.

Classification:

Physical	Health
Not Hazardous	Eye Damage Category 1 Skin Corrosion Category 1C

Danger!

Hazard statement(s)
Causes severe skin burns and eye damage.

Storage
Store locked up.

Disposal
Dispose of contents and container in accordance with local and national regulations

Prevention
Do not breathe vapors or mists.
Wash thoroughly after handling.
Wear protective gloves, protective clothing, and eye protection and face protection.

Response
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
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 or doctor.

Section 3. Composition / Information on Ingredients

Chemical name	CAS No.	Percent
Organic Salt	Proprietary	10-20
Sulfamic Acid	5329-14-6	5-15
Organic Acid Salt	Proprietary	1-5
Emulsifier	Proprietary	0.1-1
Glycolic Acid	79-14-1	0.1-1

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

Section 4. First-Aid Measures

Inhalation: Immediately remove victim to fresh air. If breathing has stopped give artificial respiration. If breathing is difficult have qualified personnel administer oxygen. Get immediate medical attention.
Skin contact: Immediately remove contaminated clothing. Flush skin with water for at least 15 minutes. Get immediate medical attention. Launder clothing before reuse.
Eye contact: Immediately flush eye with water for at least 20 minutes while lifting the upper and lower lids. Remove contact lenses if present and easy to do after the first 5 minutes then continue flushing. Get immediate medical attention.
Ingestion: If conscious, rinse 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: May cause severe irritation or burns to eye and skin. Permanent damage may occur. Inhalation of mists may cause irritation to mucous membranes and upper respiratory tract, with coughing or labored breathing. Ingestion may cause burns to the mouth, throat and stomach with nausea, vomiting and diarrhea.

Indication of immediate medical attention and special treatment, if necessary: Medical treatment is recommended for all incidents of contact or exposure.

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: Contact with certain metals may evolve flammable hydrogen gas. Combustion may produce carbon, nitrogen, sodium and sulfur oxides.

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. Ventilate the area. Evacuate spill area.

Environmental precautions: Avoid release to the environment. Report spill as required by local and federal regulations.

Methods and materials for containment and cleaning up: Dike spill with an inert absorbent. Neutralize spill with soda ash or other dilute alkaline material. Collect into appropriate containers for disposal.

Section 7. Handling and Storage

Precautions for safe handling: Prevent eye and skin contact. Do not breathe vapors or mists. Use only with adequate ventilation and appropriate protective clothing. Immediately remove contaminated clothing and launder before reuse. Wash thoroughly after handling. 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. Keep in original containers.

Section 8. Exposure Controls / Personal Protection

Exposure guidelines:

Organic Salt	None Established
Sulfamic Acid	None Established
Organic Acid Salt	None Established
Emulsifier	None Established
Glycolic Acid	None Established

Appropriate engineering controls: Use in a well-ventilated area. For operations where exposures are excessive increased mechanical ventilation such as local exhaust may be required.

Personal Protective Equipment:
Respiratory protection: None required for normal use. For large jobs where exposures may be excessive an approved respirator with dust/mist cartridges may be required. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with OSHA 1910.134 and good Industrial Hygiene practice.
Skin protection: Chloroprene or other impervious gloves are recommended to prevent skin contact.
Eye protection: Wear chemical safety goggles and faceshield to prevent eye and face contact.
Other: Impervious apron, boots and other clothing are recommended if needed to prevent contact or if splashing is possible. A safety shower and an eye wash facility should be available in the immediate work area.

Section 9. Physical and Chemical Properties

Appearance (physical state, color, etc.): Colorless liquid
Odor: Vinegar odor.

Odor threshold: Not available	**pH:** <2
Melting point/freezing point: Not available	**Initial boiling point and boiling range:** >100°C /> 212°F
Flash point: Not flammable	**Evaporation rate:** Not available
Flammability (solid, gas): Not applicable	
Flammable limits: LEL: Not applicable	**UEL:** Not applicable
Vapor pressure: Same as water	**Vapor density:** Not available
Relative density: 1.108 g/mL	**Solubility(ies):** Disperses in water
Partition coefficient: n-octanol/water: Not available	**Auto-ignition temperature:** Not applicable
Decomposition temperature: Not available	**VOC:** Not applicable

Section 10. Stability and Reactivity

Reactivity: Not reactive under normal conditions of use.
Chemical stability: Stable

Possibility of hazardous reactions: Reacts with metals to generate flammable hydrogen gas. Reacts with bases generating heat.
Conditions to avoid: Avoid excessive heat.
Incompatible materials: Avoid oxidizing agents, alkalies and metals.
Hazardous decomposition products: Thermal decomposition may produce oxides of carbon, nitrogen, sodium and sulfur. Reacts with metals to generate flammable hydrogen gas.

Section 11. Toxicological Information

Inhalation: Mists may cause mucous membranes and respiratory tract irritation with coughing and difficulty in breathing.
Skin Contact: May cause severe irritation or burns.
Eye Contact: May cause severe irritation or burns with redness, pain and swelling. Permanent damage may occur.
Ingestion: Swallowing may cause gastrointestinal irritation or burns, nausea, vomiting and abdominal pain.
Chronic Effects: None known.
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: None of the components have been shown to cause reproductive or developmental toxicity.
Carcinogenicity: None of the components of this product are listed as carcinogens or suspected carcinogens by IARC, NTP, ACGIH or OSHA.
Acute toxicity values: Acute Toxicity Estimates (ATE) calculated: Oral 62,500 mg/kg, Dermal >2000 mg/kg,
Organic Salt: Oral rat LD50 >2000 mg/kg, Dermal rat LD50 >2000 mg/kg
Sulfamic Acid: Dermal rat LD50 >2000 mg/kg.
Organic Acid Salt: No toxicity data available
Emulsifier: Oral rat LD50 620 mg/kg, Dermal rabbit LD50 >10 g/kg
Glycolic Acid: Oral rat LD50 2040 mg/kg, Inhalation rat LC50 >5.2 mg/L/4 hr

Section 12. Ecological Information

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

Ecotoxicity values:
Organic Salt: 96 hr LC50 Barilius barna> 9100 mg/L, 48 he EC50 daphnia >79 mg/L
Sulfamic Acid: 96 hr EC50 Pimephales promelas 70.3 mg/kg, 48 hr EC50 daphnia magna 71.6 mg/L, 72 hr EC50 Desmodesmus subspicatus 48 mg/L
Organic Acid Salt: 96 hr rainbow trout >140 mg/L, 48 hr LC50 ceriodaphnia dubia 71.1 mg/L
Emulsifier: No data available
Glycolic Acid: 96 hr LC50 Pimephales promelas 164 mg/L, 48 hr EC50 daphnia magna 141 mg/L, 72 hr EC50 Pseudokirchnerella subcapitata 22.5 mg/L

Persistence and degradability: Organic acid salt, glycolic acid and organic salt are readily biodegradable. Emulsifier is inherently biodegradable.
Bioaccumulative potential: Glycolic acid is not bioaccumulative based on BCF of 3.2.
Mobility in soil: Glycolic acid is highly mobile in soil.
Other adverse effects: None known.

Section 13. Disposal Considerations

Waste Disposal Recommendations: Dispose of in accordance with all local, regional, national, provincial, territorial and international regulations

Section 14. Transport Information

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT	UN2967	Sulfamic Acid Solution	8	III	None
IMDG	UN2967	Sulfamic Acid Solution	8	III	None

This product may be shipped as a Limited Quantity in inner packages of 5 L and package limit of 30 kg when shipped by ground.

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

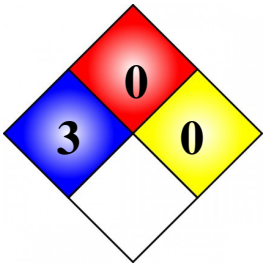
Special precautions: None known

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. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.
Section 302 Extremely Hazardous Substances (TPQ): None
SARA Hazard Category (311/312): Acute health
EPA SARA 313: This product contains the following chemicals regulated under SARA Title III, section 313: None
California Proposition 65: This product contains the following chemicals known to the State of California to cause cancer or reproductive toxicity: None
EPA TSCA Inventory: All of the components of this product are listed on the TSCA inventory.

Section 16. Other Information

NFPA RATING: Health = 3 Fire = 0 Instability = 0
HMIS RATING: Health = 3 Fire = 0 Physical Hazard = 0



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