

C-13 Limestone Cleaner

Safety Data Sheet

Section 1. Identification

Product Name: C-13 Limestone Cleaner

Product Code:

Recommended use: Surface Cleaner for Limestone

Restrictions on use: Use only as directed.

Manufacturer Name: Chemique, Inc.
Address: 315 N. Washington Avenue
Moorestown, NJ 08057
Telephone number: (856) 235-4161

Emergency phone number: (800) 535-5053 (Infotrac)

Date of Preparation: September 16, 2013

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
None	Eye Damage Category 1 Carcinogenicity Category 2

Danger!



Hazard statements

Causes serious eye damage.
Suspected of causing 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
Tetrasodium EDTA	64-02-8	20-30%
Surfactant	Proprietary	1-5%
Trisodium Nitritotriacetate	5064-31-3	0.5-1.5%
Sodium Hydroxide	1310-73-2	<1

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

Section 4. First-Aid Measures

Inhalation: Remove victim 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 thoroughly with soap and water until no traces of the chemical remains. Remove contaminated clothing and launder before reuse. Get medical attention if irritation or symptoms of exposure develop.

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

Ingestion: If conscious, give 1 glass of water to dilute. Do not induce vomiting unless directed to by medical personnel. 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. May cause skin irritation. Inhalation of vapors or mists may cause mucous membrane and upper respiratory irritation. Swallowing may cause irritation of the mouth, throat and stomach with nausea and diarrhea.

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

Section 5. Fire-Fighting Measures

Suitable (and unsuitable) extinguishing media: Use any media appropriate for 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: Avoid release to the environment. Report spill as required by local and federal regulations.

Methods and materials for containment and cleaning up: Dike spill and collect into closable containers for disposal with an inert absorbent. Wash spill site with water.

Section 7. Handling and Storage

Precautions for safe handling: Prevent contact with eyes. Avoid contact with skin and clothing. Avoid breathing vapors or mists. Use only with adequate ventilation. Remove and launder contaminated clothing before re-use. Wash thoroughly after handling and before eating, drinking, smoking or using toilet facilities.

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

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

Section 8. Exposure Controls / Personal Protection

Exposure guidelines:

Tetrasodium EDTA	None Established
Surfactant	None Established
Trisodium Nitritotriacetate	None Established
Sodium Hydroxide	2 mg/m ³ Ceiling ACGIH TLV 2 mg/m ³ TWA OSHA PEL

Appropriate engineering controls: Good general room ventilation (equivalent to outdoors) should be adequate under normal conditions. If the recommended exposure limit is exceeded increased mechanical ventilation such as local exhaust may be required.

Personal Protective Equipment:

Respiratory protection: Good general ventilation (equivalent to outdoors) should be adequate under normal conditions. For spray application and for large jobs where the recommended exposure limit may be exceeded an approved particulate may be used. For higher concentrations, a NIOSH approved supplied air respirator (with escape bottle if required) or self-contained breathing apparatus 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: Neoprene rubber or other impervious gloves are recommended to prevent skin contact.

Eye protection: Wear chemical goggles and/or faceshield to prevent eye contact. Do not wear contact lenses.

Other: Impervious apron, boots and other clothing are recommended if needed to prevent contact or if splashing is possible. For operations where contact can occur, a safety shower and an eye wash facility should be available.

Section 9. Physical and Chemical Properties

Appearance (physical state, color, etc.): Yellow Liquid

Odor: Slight ammonical odor.

Odor threshold: Not available	pH: 11
Melting point/freezing point: <0°F	Boiling point: >212°F / >100°C
Flash point: Not flammable	Evaporation rate: Not available
Flammability (solid, gas): Not applicable	
Flammable limits: LEL: Not available	UEL: Not available
Vapor pressure: Not determined	Vapor density: Not available
Relative density: 1.00	Solubility(ies): Completely soluble in water
Partition coefficient: n-octanol/water: Not available	Auto-ignition temperature: Not available
Decomposition temperature: Not available	Viscosity: Not available
VOC: 10g/L	

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: Contact with copper, zinc and aluminum may release flammable hydrogen gas.
Incompatible materials: Avoid oxidizing agents.
Hazardous decomposition products: Thermal decomposition may produce carbon and nitrogen oxides.

Section 11. Toxicological Information

Acute effects of exposure:
Inhalation: Inhalation of vapors or mist may cause respiratory irritation with coughing, sneezing and sore throat.
Skin Contact: Contact may cause irritation with redness and swelling.
Eye Contact: Contact may cause severe irritation or burns with redness, pain and tearing. .
Ingestion: Swallowing may cause mucous membrane and gastrointestinal irritation. Large amounts cause gastrointestinal distress and osmotic balance from chelation of metals in the body.
Chronic Effects: Prolonged or repeated exposure may cause skin irritation with redness and swelling. Prolonged overexposure to trisodium nitrilotriacetate has been shown to cause kidney toxicity.
Sensitization: None of the components have been shown to cause sensitization to animals or humans.
Germ Cell Mutagenicity: None of the components have been shown to cause germ cell mutagenicity.
Reproductive Toxicity: Sodium salts of EDTA have been reported to cause birth defects in animals at doses not expected in occupational exposures. These effects were observed only at levels that were toxic to the mother

Carcinogenicity: Nitrilotriacetic acid and its salts have been classified as “possibly carcinogenic to humans” (Group 2B) by IARC. None of the other components are listed as carcinogens or suspected carcinogens by IARC, NTP, ACGIH or OSHA.

Acute toxicity values:
Tetrasodium EDTA: Oral rat LD50 1780mg/kg;
Surfactant: No toxicity data available
Trisodium Nitrilotriacetate: Oral rat LD50 1740 mg/kg; Inhalation rat LC50 >5.0 mg/L/4 hr.
Sodium Hydroxide: No toxicity data available

Section 12. Ecological Information

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

Ecotoxicity values:

Tetrasodium EDTA: 96 hr LC50 *Lepomis macrochirus* 121 mg/L; 24 hr EC50 *daphnia magna* 652 mg/L;

Surfactant: No data available

Trisodium Nitritotriacetate: No data available

Sodium Hydroxide: 48 hr EC50 *Ceriodaphnia* sp 40.4 mg/L

Persistence and degradability: Tetrasodium EDTA is not considered readily biodegradable. It degrades very slowly in soil or water and the soluble salts rapidly degrade with light.

Bioaccumulative potential: Tetrasodium EDTA has a calculated BSF of 100.

Mobility in soil: No data available.

Other adverse effects: None known.

Section 13. Disposal Considerations

Dispose in accordance with all local, state and federal regulations.

Section 14. Transport Information

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT	N/A	Not Regulated	N/A	N/A	None
TDG	N/A	Not Regulated	N/A	N/A	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 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.

CANADA:

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

Canadian WHMIS Classification: Class D-2-A, Class D-2B

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: All sections revised. Converted to GHS format.

Date of preparation: 16 September 2013

Date of last revision: 29 January 2011