

**MATERIAL SAFETY DATA SHEET**  
**Safe n' Easy Limestone Cleaner**

**SECTION 1 IDENTIFICATION**

**Product Name: Safe n' Easy Limestone Cleaner**

**Manufactured for:**  
DUMOND CHEMICALS, INC  
104 Interchange Plaza, Suite 202  
Monroe Township, NJ 08831  
609-655-7700

MSDS Date of Preparation: 6/23/11

**EMERGENCY PHONE:** (800)457-4280 (InfoTrac) #79363

**SECTION 2: HAZARDS IDENTIFICATION**

This product is a clear to yellow liquid with a slight ammonical odor.

**EMERGENCY OVERVIEW**

**CAUTION!**

Contact may cause eye and skin irritation. Vapors or mists may cause irritation to mucous membranes and respiratory tract. Harmful if swallowed.

**SECTION 2 PRODUCT COMPONENTS**

<b>INGREDIENTS</b>	<b>CAS#</b>	<b>WT.%</b>
Tetrasodium EDTA	64-02-8	10-20
Nonionic surfactant – alkylphenol ethoxylate	9016-45-9	1-5
Trisodium Nitritotriacetate	5064-31-3	<1

**SECTION 4 EMERGENCY and FIRST AID PROCEDURES**

**EYE CONTACT:** Immediately flush eye with water for at least 15 minutes while lifting the upper and lower lids. Get immediate 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.

**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.

**INGESTION:** If conscious, give 1-2 glasses 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.

**SECTION 5 FIRE and EXPLOSION HAZARD DATA**

**EXTINGUISHING MEDIA:** Use any media appropriate for surrounding fire.

**SPECIAL FIREFIGHTING PROCEDURES:** Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Not considered a fire or an explosion hazard.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Wear appropriate protective clothing and equipment to prevent contact. Dike spill and collect into closable containers for disposal with an inert absorbent. Prevent spill from entering sewers and waterways. Wash spill area with water.

## SECTION 7 HANDLING and STORAGE

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Keep container tightly closed. Store in a cool, well ventilated area. Store only in stainless steel, polyethylene or in plastic lined containers.

Avoid eye and skin contact. Avoid breathing vapors or mists. Use with adequate ventilation. Remove and launder contaminated clothing before re-use. Wash thoroughly after handling.

**OTHER PRECAUTIONS:** Empty containers retain product residues. Follow all MSDS precautions in handling empty containers.

## SECTION 8 EXPOSURE CONTROLS and PERSONAL PROTECTION

Exposure Limits

### **INGREDIENTS**

Tetrasodium EDTA  
Nonionic surfactant – alkylphenol ethoxylate  
Trisodium Nitrilotriacetate

### **EXPOSURE LIMITS**

None Established  
None Established  
None Established

**RESPIRATORY PROTECTION:** None needed under normal use conditions with adequate ventilation. If the TLV is exceeded a NIOSH approved particulate respirator 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.

**VENTILATION:** Good general room ventilation should be adequate under normal conditions. If exposures are excessive increased mechanical ventilation such as local exhaust may be required.

**GLOVES:** Neoprene rubber or other impervious gloves are recommended to prevent skin contact.

**PROTECTIVE CLOTHING:** Impervious apron, boots and other clothing are recommended if needed to prevent contact or if splashing is possible.

**EYE PROTECTION:** Wear chemical safety glasses with sideshields, chemical goggles and/or faceshield to prevent eye contact. Do not wear contact lenses.

**OTHER PROTECTIVE EQUIPMENT:** For operations where contact can occur, a safety shower and an eye wash facility should be available.

## SECTION 9 PHYSICAL and CHEMICAL PROPERTIES

**APPEARANCE and ODOR:** Clear to yellow liquid with a slight ammonical odor.

<b>BOILING POINT (@ 760 mmHg):</b> 224°F (106.6°C)	<b>MELTING POINT:</b> 7.7°F (13.5°C)
<b>SPECIFIC GRAVITY (H<sub>2</sub>O=1):</b> Approximately 1.18	<b>VAPOR PRESSURE:</b> 760 mmHg @ 107°C
<b>VOC:</b> 2 g/L	<b>VAPOR DENSITY (AIR=1):</b> Not available
<b>EVAPORATION RATE:</b> Same as Water	<b>SOLUBILITY IN WATER:</b> Miscible
<b>FLASH POINT:</b> Non-flammable	<b>AUTOIGNITION TEMPERATURE:</b> Not applicable
<b>FLAMMABLE LIMITS: (vol % in air):</b> LEL – N/ UEL – N/A	
<b>pH:</b> 11-11.5	<b>COEFFICIENT OF WATER/OIL:</b> Not available

## SECTION 10 STABILITY and REACTIVITY

**STABILITY:** This material is stable.

**CONDITIONS TO AVOID:** None known.

**INCOMPATIBILITY:** Avoid oxidizing agents. Contact with aluminum and zinc may release flammable hydrogen gas.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may yield carbon dioxide, carbon monoxide and nitrogen oxides.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** Not applicable.

## SECTION 11 TOXICOLOGICAL INFORMATION

### HEALTH HAZARDS:

**INHALATION:** Mist and vapors may cause respiratory irritation with coughing and sneezing.

**SKIN CONTACT:** Contact may cause irritation with redness and swelling especially on prolonged contact.

**EYE CONTACT:** Contact may cause severe irritation with redness, pain and blurred vision.

**INGESTION:** Swallowing small amounts may not be harmful. Large amounts cause gastrointestinal irritation and osmotic balance from chelation of metals in the body.

**CHRONIC EFFECTS OF OVEREXPOSURE:** Prolonged or repeated exposure may cause skin irritation with redness and swelling.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Individuals with chronic respiratory or skin diseases may be at increased risk from exposure to this material.

**TOXICOLOGY DATA:** This product has not been tested as a whole. Toxicity values for the components are:

Tetrasodium EDTA	Oral rat LD50 3,030 mg/kg; Skin rabbit >5,000 mg/kg
Nonionic Surfactant	Oral rat LD50 3.31 g/kg; Skin rabbit LD50 >2.0 g/kg
Trisodium Nitrioltriacetate	Oral rat LD50 1,100 mg/kg

Nitrioltriacetic acid and its salts have been classified as "possibly carcinogenic to humans" (Group 2b) by IARC and "reasonably anticipated to be a human carcinogen" by NTP.

Trisodium Nitrioltriacetate has tested positive in some mutagenic assays.

None of the components are known to cause sensitization in animals or humans.

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.

## SECTION 12: ECOLOGICAL INFORMATION

Tetrasodium EDTA: 96 hr LC50 Pimephales promelas (fathead minnow) >100 mg/L.

## SECTION 13: DISPOSAL INFORMATION

**WASTE DISPOSAL METHOD:** Dispose in accordance with all local, state and federal regulations.

## SECTION 14: TRANSPORTATION INFORMATION

**DOT SHIPPING NAME:** Not Regulated

**DOT HAZARD CLASSIFICATION:** N/A

**DOT LABELS REQUIRED (49CFR172.101):** None

**UN NUMBER:** N/A

**SECTION 15: REGULATORY INFORMATION**

**OSHA HAZARD CLASSIFICATION:** Irritant

**EPA SARA 311 HAZARD CLASSIFICATION:** Acute health

**EPA SARA 313:** This product contains no chemicals that are regulated under SARA Title III, section 313.

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

**WHMIS CLASSIFICATION:** Class D - Division 2A (Toxic material causing other toxic effects)

This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

**TOXIC SUBSTANCES CONTROL ACT:** All of the components of this product are listed on the TSCA inventory.

**CALIFORNIA PROPOSITION 65:** This product contains the following chemicals known by the State of California to cause cancer and reproductive toxicity: 0.6 ppm ethylene oxide (cancer, female reproductive toxicity, male reproductive toxicity, developmental)

**CANADIAN ENVIRONMENTAL PROTECTION ACT:** All of the components of this product are listed on the Canadian Domestic Substances List (DSL).

**AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES:** All of the components of this product are listed on the AICS Inventory.

**SECTION 16: OTHER INFORMATION**

NFPA Rating: Health: 2      Fire: 0      Reactivity: 0