

**MATERIAL SAFETY DATA SHEET**  
**Safe n' Easy Architectural Cleaner/Restorer**

**SECTION 1 IDENTIFICATION**

**Product Name:** Safe n' Easy Architectural Cleaner/Restorer

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

MSDS Date of Preparation: 5/18/11

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

**SECTION 2 HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

**CAUTION!**

This product is a green liquid with a citrus odor. Contact may cause eye and skin irritation. May be harmful if absorbed through the skin. Vapors or mists may cause respiratory irritation and central nervous system effects. Harmful if swallowed. May cause chronic effects.

**SECTION 3 PRODUCT COMPONENTS**

<b>INGREDIENTS</b>	<b>CAS#.</b>	<b>WT.%</b>
Tetrasodium EDTA	64-02-8	5-10
Nonionic surfactant	9016-45-9	5-10
Monoethanolamine	141-43-5	5-15
2-Butoxyethanol	111-76-2	5-10
Trisodium Nitrilotriacetate	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:** Thermal decomposition may yield irritating or toxic gases.

**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. Do not store in aluminum or copper 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

### INGREDIENTS

Tetrasodium EDTA  
Nonionic surfactant  
Monoethanolamine

2-Butoxyethanol

Trisodium Nitrilotriacetate

### EXPOSURE LIMITS

None Established  
None Established  
3 ppm TWA OSHA PEL  
3 ppm TWA ACGIH TLV, 6 ppm STEL ACGIH  
50 ppm (skin) TWA OSHA PEL  
20 ppm (skin) TWA ACGIH TLV  
None Established

**RESPIRATORY PROTECTION:** If the exposure limits are exceeded an approved organic vapor respirator with a particulate pre-filter, 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:** For operations where the TLV may be exceeded, mechanical ventilation such as local exhaust may be needed to maintain exposure levels below applicable limits.

**GLOVES:** Neoprene, nitrile, butyl 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 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:** Green liquid with citrus odor. The odor threshold for 2-butoxyethanal is 0.1 ppm.

**BOILING POINT (@ 760 mmHg):** Not available

**SPECIFIC GRAVITY (H<sub>2</sub>O=1):** Approximately 1

**VOLATILE:** Not available

**EVAPORATION RATE:** Same as Water

**pH:** 10-10.5

**VOC Content:** 91 g/L

**FLASH POINT:** Non-flammable

**FLAMMABLE LIMITS: (vol % in air) LEL – N/A UEL– N/A**

**MELTING POINT:** Not applicable

**VAPOR PRESSURE:** 0.88 mm Hg @ 25°C (2-butoxyethanol)

**VAPOR DENSITY (AIR=1):** Not available

**SOLUBILITY IN WATER:** Complete

**COEFFICIENT OF WATER/OIL:** Not available

**AUTOIGNITION TEMPERATURE:** Not applicable

## SECTION 10 STABILITY and REACTIVITY

**STABILITY:** This material is stable.

**CONDITIONS TO AVOID:** Contact with copper, zinc and aluminum may release flammable hydrogen gas.

**INCOMPATIBILITY:** Avoid oxidizing agents, alkalis, acids, acetic anhydride, acrolein, acrylonitrile, epichlorohydrin, metsityl oxide, oleum, vinyl acetate, lime, ammonia, organic amines, chlorates and sodium hydroxide.

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

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** Not applicable.

## SECTION 11 TOXICOLOGICAL INFORMATION

### HEALTH HAZARDS:

**INHALATION:** Inhalation of vapors or mist may cause respiratory irritation with sore throat and coughing, headache, dizziness, drowsiness, nausea, weakness, intoxication and narcosis.

**SKIN CONTACT:** Contact may cause irritation with redness, pain and swelling. Prolonged or widespread contact may allow 2-Butoxyethanol and monoethanolamine to be absorbed through the skin with symptoms similar to those listed under inhalation or ingestion.

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

**INGESTION:** Swallowing may cause gastrointestinal irritation with abdominal pain, nausea, vomiting and diarrhea. Large amounts may cause systemic effects including headache, dizziness, drowsiness, weakness, intoxication, narcosis, metabolic acidosis and kidney, liver or blood system damage.

**CHRONIC EFFECTS OF OVEREXPOSURE:** Prolonged or repeated overexposure may cause severe skin irritation or dermatitis and damage to the liver, kidneys or blood system.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Individuals with chronic pulmonary, skin, kidney or liver 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:

	<u>LD50</u>	<u>LC50</u>
2-Butoxyethanol	560 mg/kg oral rat 400 mg/kg skin rabbit	450 mg/kg inhalation rat
Monoethanolamine	10.2 g/kg oral rat 1,025 mg/m <sup>3</sup> skin rabbit	No data available
Tetrasodium EDTA	>2,000 mg/kg oral rat	No data available
Nonionic Surfactant	3.31 g/kg oral rat >2.0 g/kg skin rabbit	No data available
Trisodium Nitritotriacetate	1,100 mg/kg oral rat	No data available

Nitritotriacetic 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.

2-Butoxyethanol has been found to be mutagenic in bacteria (*S. typhimurium*). Trisodium Nitritotriacetate has tested positive in some mutagenic assays.

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

2-Butoxyethanol has been found to cause adverse reproductive effects in laboratory animals (both effects on fertility and developmental abnormalities by inhalation and oral routes). 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 Bluefish 486 mg/L.  
2-Butoxyethanol: 96 hr LC50 Cyprinodon variegatus (Sheepshead minnow) 116 mg/L;  
Monoethanolamine: 96 hr LC50 Oncorhynchus mykiss (Rainbow trout) 150 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, toxic, target organ effects

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

**EPA SARA 313:** This product contains the following chemicals regulated under SARA Title III, section 313:

2-Butoxyethanol	111-76-2	1-5%
(glycol ethers)		

**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.

**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 chemical known by the State of California to cause cancer or reproductive toxicity: ethylene oxide 0.6 ppm (cancer, female reproductive toxicity, male reproductive toxicity, developmental toxicity).

**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

Revision History:

8/18/99: New MSDS

5/18/11: Reversed Section 2 & 3, Section 2 Moved health hazards to Section 11, Section 3 Moved exposure limits to Section 8, Section 5 Moved flashpoint, flammability limits and autoignition to Section 9, Section 9 Added VOC and pH data, Section 11 Updated toxicology data, Section 12 Added ecotoxicity data, Section 15 Revised California Proposition 65.