

Safety Data Sheet

Dura-Clean

Section 1

Product Name: Dura-Clean
Recommended Use: Cleaning Concrete
Supplier: Duraco, 4645 North Ave, Oceanside, CA 92056 760-758-7240
Emergency Phone: Chemtrec: 800-424-9300

Product Description

Section 2

Hazard identification

Skin Corrosive: **Category 1B**
Acute Oral Toxicity: **Category 5**
Eye Damage: **Category 1**



Signal Word:

Danger

Hazard Statement:

H303 May be harmful if swallowed
H314 Causes severe skin burns and eye damage
H318 Causes serious eye damage

Precautionary Statement:

Prevention

P102: Keep out of reach of children.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink, or smoke while using this product.
P234: Keep only in original container.
P271: Use only in a well-ventilated area.
P285: In case of inadequate ventilation, wear respiratory protection.
P280: Wear protective gloves and eye protection.

Response

P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P363: Wash contaminated clothing before reuse.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
P301+P313: IF SWALLOWED: Get medical advice/attention.
P331: Do not induce vomiting.

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Section 3 Composition/ Information on Ingredients

Hazardous Components:

	<u>CAS #</u>	<u>Conc. (wt%)</u>
Sodium Hydroxide	1310-73-2	1.0 – 3.0
2-Butoxyethanol	111-76-2	4.0 – 5.0
Tetrasodium EDTA	64-02-8	0.5 – 1.0
C8-10 Ethoxylate Phosphate	68130-47-2	2.0 – 2.5
Nonylphenol Ethoxylate	127087-87-0	3.0 – 4.0
Silicic acid, disodium salt	6834-92-0	1.0 – 1.5
Pine Oil	8002-09-3	0.2 – 0.5
Dihydrogen Oxide	7732-18-5	80.0 – 85.0

Section 4 First Aid Measures

Emergency First Aid Procedures

Skin: Remove contaminated clothing and rinse the affected area for at least 20 minutes. Thoroughly wash with soap and water until no evidence of the chemical remains. For chemical burns, cover with proper dressing and bandage. Call a physician.

Eyes: Flush with water for 20 minutes lifting upper and lower eyelids occasionally. Continue irrigation with normal saline until pH returns to normal. Call a physician.

Inhalation: Remove to fresh air. Administer artificial respiration if necessary. Call a physician.

Ingestion: Drink large amounts of water to dilute the product. Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. If vomiting occurs, give fluids again.

Section 5 Firefighting Procedures

Extinguishing Media: Dry chemical, alcohol-resistant foam, or CO₂

Flash Point (TCC): N/A

Flammable Limits (% volume in air for solvents): LEL: Not Determined UEL: Not Determined

Special Fire Fighting Procedures: Reactions with metals can liberate flammable gas and may form explosive mixture in the air. At high temperatures toxic corrosive fumes of anhydrous gas may be emitted. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face-piece operated in pressure-demand or positive-pressure mode.

Section 6 Spill or Leak Procedures

Small Spills: Spills may be absorbed using cement powder or fly ash and shoveled into containers. Neutralize spills with lime, sodium bicarbonate or crushed limestone and prevent runoff. Notify proper authorities if runoff should occur.

Large Spill Containment: For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

Cleanup: Spills may be absorbed using cement powder or fly ash and shoveled into containers. Neutralize spills with lime, sodium bicarbonate or crushed limestone and prevent runoff. Notify proper authorities if runoff should occur.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Disposal Regulatory Requirements: Follow applicable Federal, state, and local regulations.

Container Cleaning and Disposal: Containers must not be washed out or used for other purposes. Do not weld or flame cut empty containers.

Section 7 Handling and Storage

Normal Handling: Keep away from other household chemicals and food. Use only in well ventilated areas.

Storage: Store material in its original container. Keep containers tightly closed when not in use. Store away from metals, organic materials, and food sugars.

Waste Disposal Method: Dispose of material in accordance with federal, state, and local guidelines.

Special Precautions: Avoid breathing mist.

Section 8 Protection Information

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear an OSHA/NIOSH approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contaminations,

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and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA.

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Protective Clothing/Equipment: Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact.

Eye Protection: Wear protective eyeglasses or chemical safety goggles, per OSHA eye and face protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Safety Stations: Make emergency eyewash stations, safety/quick drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 Physical Data

Appearance: Green Liquid

Odor: Pine odor

Odor Threshold: No data available

pH: >11

Melting Point: Not determined

Freezing Point: <32° F

Boiling Point: 212° F (102 °C)

Flash Point: >199°F (>93°C)

Evaporation Rate: Not determined

Flammability (solid, gas): Non-flammable under normal conditions

Upper/lower Flammability: N/A

Vapor Pressure: Not determined

Vapor Density: Not determined

Water Solubility: 100%

Partition Coefficient: No data available

Auto-ignition Temperature: N/A

Decomposition temperature: Not determined

Viscosity: Not determined

Specific Gravity (H2O=1, at 4 °C): 1.02 g/cc

Section 10 Reactivity Data

Reactivity: Stable at room temperature in closed containers under normal storage and handling conditions

Conditions to avoid: Heat, open flame.

Incompatibility (Materials to Avoid): Contact with common metals, including aluminum or magnesium, may produce flammable gas which may form explosive mixtures in the air. Store away from food sugars and organic materials.

Hazardous Decomposition (Byproducts): Under normal storage and use conditions, hazardous decomposition byproducts should not be produced.

Hazardous Polymerization: Hazardous polymerization cannot occur under normal temperatures and pressures.

Section 11 Toxicity Data

Routes of Exposure: Inhalation, ingestion, eyes, and skin.

Acute Toxicity Lethal Doses (ATE):

LC50 (inhl) 52.7 mg/l

LD50 (oral) 2198 mg/kg

LD50 (skin) No data available

Skin Contact: Prolonged contact may cause severe irritation, inflammation, ulceration, and burns.

Eye Contact: May cause severe irritation, impairment and permanent damage.

Inhalation: Burning sensation in the throat, coughing and choking.

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Ingestion: Burns of the mouth, throat, esophagus and stomach with consequent pain, uneasiness, nausea, vomiting, diarrhea, chills and intense thirst.

Carcinogen: None

Aggravation of Pre-existing Conditions: Inhalation of fumes may aggravate existing lung problems. Skin contact may aggravate existing conditions.

Section 12 Ecological Data

Acute Toxicity to Fish: LC50 10.1 mg/L (calculated)

Acute Toxicity to Aquatic Invertebrates: LC50 4.4 mg/L (calculated)

Toxicity to Aquatic Plants: EC50 3.20 mg/L (calculated)

Toxicity to Microorganisms: No data available

Chronic Toxicity to Fish: No data available

Chronic Toxicity to Aquatic Invertebrates: No data available

Persistence and Degradability: Expected to degrade readily and rapidly in the presence of oxygen

Bioaccumulation Potential: This material is not expected to bioaccumulate

Mobility in the Soil: High mobility in wet soil

Other Adverse Effects: Concentrated product entering water will raise the pH and cause damage to fish, invertebrates, and microorganisms. When diluted for use, the pH decreases significantly and danger is lowered.

Section 13 Disposal Information

Waste Disposal Method: Dispose of material in accordance with all Federal, State, and Local regulations. Must not be disposed of with household garbage. Do not allow product to reach waterways or storm sewers.

Section 14 Transport Information

All Modes:

Proper Shipping Name: Corrosive Liquid, Basic, Inorganic, n.o.s. (Sodium Hydroxide)

Hazard Class: 8

UN: UN3266

Packing Group: PGIII

Section 15 Regulatory Information

SARA311/312: Yes. Acute. Chronic

TSCA: All components of this material are on the US TSCA Inventory or are exempt.

State Regulations: Consult individual state agency for further information.

California Prop. 65: None

Section 16 Additional Information

The regulatory information provided is not intended to be comprehensive. Other Federal, State and Local regulations may apply to this material.

DISCLAIMER: Although the information and recommendations set forth herein are presented in good faith and believed to be correct as of the date hereof, manufacturer makes no representations as to the completeness or accuracy thereof.