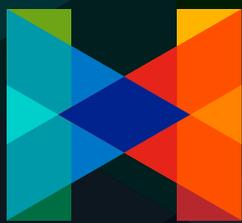


▶ THANK YOU FOR CHOOSING ◀



**HELIX**  
COLOR SYSTEMS

Before beginning any project, please review the enclosed training and materials packets in full, including:

TECH  
DATA SHEET

SAFETY  
DATA SHEET

## Cleaners, Strippers and Accessory Products

# NEUTRALIZER/DEGREASER

## TECH DATA SHEET

Helix Color Systems is a premier line of specialty decorative concrete systems manufactured for the professional installer. Specializing in custom colors, specialty products, and superior service, Helix Color Systems offers an innovative alternative in the decorative concrete industry.

### ► DESCRIPTION

Helix Neutralizer/Degreaser is the product of choice for neutralizing acid stain floors prior to sealing, and to remove oil, grease or other types of soils from colored, imprinted and natural concrete surfaces.

### ► PRODUCT BENEFITS

- Helix Neutralizer/Degreaser is the product of choice for neutralizing acid stain floors prior to sealing, and to remove grease or other types of soils from colored, imprinted and natural concrete surfaces. This product combines cleaning and degreasing without the use of petroleum solvents.
- Helix Neutralizer/Degreaser can be safely used on acid stained surfaces.

### ► PRE-APPLICATION

1. Before using, test Helix Neutralizer/Degreaser in an inconspicuous area to ensure compatibility. For any questions regarding compatibility with existing surface, consult ChemSystems, Inc.
2. **Dilution Ratio** – For concrete surface cleaning, add one to two cups of Helix Neutralizer/Degreaser per gallon of water. The dilution range for this product goes from 1:64 to 1:8.

### ► APPLICATION

Apply Helix Neutralizer/Degreaser with an automatic scrubber or a #24 rayon “finish mop” (with looped ends) or equivalent from a Helix Distributor, hardware or janitorial supply store.

1. Apply liberally to floor and allow ten minutes “dwell” time.
2. Scrub surface with floor machine equipped with a scrubbing or stripping pad or brush.
3. Rinse well and allow drying before opening surface to traffic or proceeding with sealer/polish application.
4. Repeat procedure for stubborn or deep oil stains.

### ► LIMITATIONS AND PRECAUTIONS

- Due to its strength, this product is not recommended for cleaning surfaces sealed with water-based sealers.
- For areas sealed with water-based sealers, use a neutral pH Floor Cleaner.

### ► SHELF LIFE AND STORAGE

Helix Neutralizer/Degreaser has a shelf life of one year. Store indoors, away from heat and direct sunlight. Do not allow to freeze.

### ▶ COVERAGE RATES AND DRYING TIMES

**Coverage rates** may vary depending on surface porosity, texture, age and condition of the concrete, the application method, and other local conditions.

- Material usage is 500–5,000 square feet per gallon.

### ▶ PACKAGE SIZES

Helix Neutralizer/Degreaser is available in 1- and 5-gallon units.

### ▶ APPLICABLE STANDARDS

- Helix Neutralizer/Degreaser complies with ASTM D3209–82 for freeze/thaw stability for a minimum of three cycles.
- Helix Neutralizer/Degreaser is USDA approved.

### ▶ TECHNICAL DATA

Please refer to the corresponding MSDS for hazard-related information.

Color/Odor	Dark Blue–Green/Pine
Detergent Type	Nonionic
Solubility in Water	00% for hard, soft or deionized water
pH	12.7 ± 0.1 for concentrate 11.5 ± 0.2 for 1:10 dilution
Surface Tension	29 dynes per cm at dilution of two oz./gal.
Specific Gravity	1.02 (H <sub>2</sub> O=1)
Density	8.5 pounds per gallon
Flash Point	None
Biodegradable	Yes

### ▶ PRODUCT HANDLING

For complete instructions on handling and use, consult the corresponding Material Safety Data Sheet before using product.

### ▶ WARRANTY

Helix Neutralizer/Degreaser, a proprietary product, is warranted to be of uniform quality within manufacturing tolerances. Since control is not exercised over its use, no warranty, expressed or implied, is made as to the effects of such use. Seller's and manufacturer's obligation under this warranty shall be limited to refunding the purchase price of that portion of the material proven to be defective. The user assumes all other risks and liabilities resulting from use of this product. If you have any questions, please contact ChemSystems, Inc.

# NEUTRALIZER/DEGREASER

## SAFETY DATA SHEET

### ▶ SECTION 1 PRODUCT DESCRIPTION

**Product Name:**

Helix Cleaner Degreaser Neutralizer

**Recommended Use:**

Cleaning Concrete

**Supplier:**

ChemSystems, Inc. 10101 Genard Road Houston, TX 77041  
P: 713.329.9066 support@helixcolorsystems.com  
www.helixcolorsystems.com

**Emergency Phone:**

CHEMTRAC 1-800-424-9300

### ▶ SECTION 2 HAZARD IDENTIFICATION

Category 1B Skin Corrosive

Category 5 Acute Oral Toxicity

Category 1 Eye Damage



**Signal Word:** Danger

**Hazard Statements:**

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

**Precautionary statements:****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.

▶ SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS #	Conc. (wt. %)
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 CO<sub>2</sub>

**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

**Steps to Take if Material is Released or Spilled:** No health effects expected from the clean-up of the material if contact can be avoided. Follow the protection information found in Section 8 of this SDS. Absorb spillage in suitable inert material. Sweep or scrape up and containerize.

## ▶ 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, 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:** Not determined
- **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.

**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:** 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:** Not Classified

**Packing Group:** PGIII

## ▶ SECTION 15 REGULATORY INFORMATION

**SARA 311/312:** 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.

**CA 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.