



ETCH 'N CLEAN SOLUTION

The Original Color Chips Company

26200 GROESBECK HWY
WARREN, MI 48089 USA

Product Data Sheet

- Substrates**
- Concrete - Tilt up, poured, precast
 - Masonry - Stucco, cinderblock, cement board
 - Brick - Glazed, unglazed

- Removes**
- Form Release Compound
 - Oil, Grease, Dirt, Soot
 - Efflorescence & Laitance
 - Fabricating Oils, Lubricants
 - Coolants and Rust Inhibitors
 - Passivation Films

Product Description

Etch 'n Clean is a concentrated, water-reducible phosphoric acid and detergent blend formulated to both clean and prepare concrete, masonry, steel, galvanized and zinc surfaces for coating, staining and sealing. Etch 'n Clean reduces preparation time and cuts labor costs by eliminating the separate pre-cleaning and rinsing operation before etching

General Uses

Etch 'n Clean is ideal for cleaning and etching concrete floors, walls, basements, driveways, swimming pools and containmen areas before coating, staining, or sealing.

Application (Read precautions before using)

Etch 'n Clean can be applied with an acid-resistant, hand-pump sprayer, a plastic sprinkling can, or with a plastic pail and an acid-resistant broom or brush.

For best results:

- 1) Use product full strength.
- 2) If available, hot water will accelerate cleaning and etching.
- 3) Sweep lose debris and dampen the surface with water.
- 4) Apply solution and scrub with a stiff brush or broom until bubbling stops. **NOTE: if no bubbling occurs, surface is coated with curing compounds or contaminants preventing etching. Remove contamination and reapply Etch 'n Clean.**
- 5) Triple rinse with water to neutralize. On floors, squeegee off rinse water to speed drying. Adding baking soda will neutralize too.
- 6) Allow the surface to dry thoroughly.

- Features**
- Cleans & Etches in one step
 - No Acidic Vapors
 - Saves Time & Labor
 - Neutralizes Alkali Salts
 - Cleans & Phosphates
 - Improves Corrosion Resistance
 - Enhances Coating Adhesion

Trouble Shooting Guide

White Powder appearing on the surface after drying indicates that the solution is too strong and/or the contact time is too long. Remove white powder before coating by wiping with a clean, dry cloth. To correct reduce solution concentration and/or reduce spray contact time.

Safety & Health Data

Etch 'n Clean is non-flammable, non-carcinogenic, and contains no petroleum or chlorinated solvents

Research

Etch 'n Clean has been accepted with an A-3 category designation as a general cleaning agent on all surfaces or for use with steam or mechanical cleaning devices in all departments of USDA inspected facilities.

Availability

Etch 'n Clean is available where ever The Original Color Chips are sold.

Technical Services

Technical advice furnished by The Original Color Chip Company concerning any use or application of Etch 'n Clean is reliable as current technology allows and the company makes no warranty, expressed or implied of any use or application for which such advice is furnished. Technical assistance and information is available upon request by writing or calling The Original Color Chip Company at 586-771-6500.



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Material Safety Data Sheet

Section 1 - General Information

Manufactured by: Great Lakes Laboratories
Address: 26200 Groesbeck Hwy
Warren, MI 48089

24 Hour Emergency: 1-800-888-1105
Office: 1-734-525-8300

Container over 5 liters: Phosphoric Acid Solution
8, UN1805, PG III

Container under 5 liters: Consumer Commodity
ORM-D

HMIS	Rating
Health:	3
Fire:	0
Reactivity:	1
Other:	0

Section 2 - Hazardous Ingredients

Hazardous Material Description: Phosphoric Acid
Class, ID NO.: Corrosive, UN1805
Chemical Name: Phosphoric Acid
CAS #: 7664-38-2
% Weight: 40% - 60%
Carcinogen: OSHA - No
ACGIH - No

Section 3 - Physical Characteristics

Boiling Point: 212°F
Vapor Pressure (mm Hg): N/A
Vapor Density (Air = 1): N/A
Specific Gravity (H₂O=1): 1.24
pH: 1.0
Evaporation Rate:
(butyl acetate = 1) Equal to Water
Solubility in Water: Complete
Appearance: Orange Liquid
Odor: None

Section 4 - Health Hazard Data

Exposure Limits:
Threshold Limit Value: 1 mg/cu. m (ACGIH)
PEL: 1 mg/cu. m (OSHA)
STEL: 3 mg/cu. m (OSHA)
Effects of Acute: Phosphoric Acid has low
Overexposure: acute oral and moderate
dermal toxicity. Phosphoric
Acid is corrosive to eyes.
Slightly toxic if inhaled.

Section 4 - Continued

Emergency and First Aid Procedures:

Swallowing: Do not induce vomiting. Drink plenty of water. See physician immediately.

Skin: Immediately wash with soap and water. If irritation occurs and persists, see a physician.

Eyes: Flush with water for at least 15 minutes, lifting upper and lower eyelids repeatedly. See ophthalmologist.

Inhalation: Remove to fresh air. If breathing difficulty or discomfort occurs, see a physician.

Section 5 - Fire and Explosion

Flash Point: None

Extinguishing Media: N/A

Special Fire Fighting Procedures: Full protective clothing and self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: At flame temperatures, will emit toxic phosphorus oxide fumes.

Section 6 - Reactivity

Stability: Stable conditions to avoid - Contact with strong alkaline materials and reactive metals.

Incompatibility: Contact with reactive metals may produce flammable hydrogen/air mixtures. Reacts violently with strong bases.

Hazardous Decomposition/By Products: At flame temperatures, will emit toxic phosphorus oxide fumes.

Section 7 - Control Measures

Respiratory Protection: Wear mask to prevent inhalation.
Ventilation: Keep concentration below TLV level.
Protective Gloves: Impervious rubber or plastic.
Eye Protection: Chemical safety goggles.
Protective Clothing: Hat, boots and jacket may be needed in heavy mist or spill situation.

Section 8 - Spill/Leak Procedures

In Case of Spill: Stop leak. Dike and absorb with inert absorbent. Neutralize washings with soda ash or lime.
Waste Disposal Method: In accordance with regulations.

CERCLA Reportable Qty.: 5,000 lbs

RCRA Hazard Waste #: N/A

VOC: None

Section 9 - Precautions for Safety Handling

Handling/Storage: Store in a cool, dry place
Keep container closed.
Other Precautions: Keep out of reach of children.
Keep from freezing.

The information contained herein is based on the data available to us and is believed to be correct. However, we make no warranty, expressed or implied, regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for the injury from use of the product described herein.