

E³

Environmental • Effective • Economical

Peroxide Tile & Grout Cleaner



1:64

General Purpose



1:128

Floor Cleaning



1:32

Bathroom & Tile



1:16

Degreasing



A non-toxic, non-VOC, biodegradable, hydrogen peroxide fortified, highly concentrated all-purpose cleaner that is specially designed to address the environmental, safety and health concerns facing today housekeeping professional. The hydrogen peroxide oxidizes the soil and stains, destroys odors and provides color safe bleaching action. Can be used to clean most surfaces such as windows, walls, floors, tile & grout, washroom fixtures, tubs, showers, toilet bowls and urinals. No rinse required.

ENVIRONMENTALLY RESPONSIBLE COMPARISON

Traditional Products	E ³
Sodium Phosphates	None
Sodium Silicate	None
Ethylenediaminetetraacetate	None
Nonylphenol ethoxylates	None
2-Butoxyethanol	None
	Sodium Capryl Sulfonate
	Linear Alcohol Ethoxylates
	Diethylene Glycol Butyl Ether
	Tripropylene Glycol Methyl Ether
	Hydrogen Peroxide
pH 9 – 12	pH 4 – 5
Traditional Compound Descriptions:	E ³ Compound Descriptions:
<p>Sodium Phosphates – offer good control of hardness ions and maintain alkalinity levels. They also increasing cleaning efficiency by suspending dirt. However, phosphate are plant nutrients Those promote algae blooms.</p> <p>Sodium Silicate – provides buffering and alkalinity. However, alkaline silicates can be corrosive to eyes and skin.</p> <p>Ethylenediaminetetraacetate (EDTA) – offers very good control of hardness ions. However, it will enhance the remobilization of heavy metals in the environment. It may contain trace amount of carcinogen.</p> <p>Nonylphenol ethoxylates – a non-ionic surfactant that is used to provide wetting and detergency. However, it is derived from a petroleum-based product. It has a suspected harmful biodegradable intermediate.</p> <p>2-Butoxyethanol – effective water-soluble solvent to attack both water-soluble soils and water-insoluble oils and greases. However, it is a potential nose and eye irritant and may cause blood cell damage if absorbed through skin.</p>	<p>Sodium Capryl Sulfonate – a completely biodegradable surfactant provides wetting and detergency.</p> <p>Linear Alcohol Ethoxylates - listed as Positive Environmental Profile surfactant on EPA design for the Environment Formulator Initiative. A non-ionic surfactant made from linear primary alcohol that biodegrades readily to compounds with low toxicity.</p> <p>Diethylene Glycol Butyl Ether - It is commonly used as a solvent in cleaners. It is biodegradable and is not easily absorbed through the skin.</p> <p>Tripropylene Glycol Methyl Ether - listed as Positive Environmental Profile builder on EPA design for the Environment Formulator Initiative. It is commonly used as a solvent in cleaners. It is biodegradable and is not easily absorbed through the skin.</p> <p>Hydrogen Peroxide - listed as Positive Environmental Characteristic Bleaches on EPA Key Characteristic of Formulation Ingredients/Cleaning System. It is a relatively strong oxidizing agent that oxidizes soil and stains, destroys odors and provides color safe bleaching action.</p>

PRODUCT SPECIFICATIONS

Dial Setting for 11 oz.	#0 - #1 (1:128 - 1:64) General Purpose Cleaning	pH:	4.0 - 5.0
	#3 (1:40) Bathroom and Tile Cleaning	Viscosity:	Water thin
	#4 (1:32) Degreasing	Foam:	Moderate
Color:	Colorless	Storage/Stability:	6 Months
Odor:	Mild Odor	Weight Per Gallon:	8.48 lbs. Per gallon
		Freeze/Thaw Stability:	Keep from freezing

SECTION 1-PRODUCT IDENTIFICATION AND SUPPLIER INFORMATION

Product Name: Peroxide Tile & Grout Cleaner
Generic Name: All Purpose Cleaner
Chemical Family: Detergent/solvent blend
Formula: Proprietary

Supplier's Name: Cavalier, Inc.
Supplier's Address: PO Box 11171 Norfolk, Va. 23517
Supplier's Phone #: Phone: 757-855-6091 Fax: 757-855-1818

SECTION 2-INGREDIENT INFORMATION

CHEMICAL NAME	CAS NO.	WT. %	PEL	TWA-TLV	STEL-TLV
Water	7732-18-5	to 100			
Hydrogen Peroxide	7722-84-1	0 to 5	1 ppm	1 ppm	
Primary Alcohol Ethoxylate C9	68439-46-3	10 to 15			
Sodium Octanesulfonate	5324-84-5	0 to 5			
Tripropylene Glycol Methyl Ether	25498-49-1	5 to 10			
Diethylene Glycol Butyl Ether	112-34-5	10 to 15			

SECTION 3-PHYSICAL DATA

Boiling Point (°F): 212° F. **Specific Gravity:** 1.034
Vapor Pressure: 20mm Hg @68°F. **Vapor Density (Air=1):** >1
% Volatile: 80+ **pH:** 4.0 – 5.0
Solubility in Water: Complete **Evaporation Rate (Water=1):** >1
Physical Description: Thin clear liquid with characteristic odor
VOC Content: None

SECTION 4-FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): None
Upper Explosion Limit: N/A **Lower Explosion Limit:** N/A
Extinguishing Media: Dry chemical, CO₂ or water
Special Firefighting Procedures: Keep fire exposed containers cool with water stream.
Unusual Fire and Explosion Hazards: N/A

SECTION 5-REACTIVITY DATA

Stability: Stable **Hazardous Polymerization:** None
Hazards Decomposition Products: Not Known **Incompatibility (Materials to Avoid):** Strong Alkalies, Chlorine

SECTION 6-STORAGE AND HANDLING INFORMATION

Slight eye irritant. Skin irritant with prolonged or repeated contact. Keep out of reach of children. For use by trained personnel only. Wear protective gloves and eyewear when handling. Keep container closed during storage. For institutional and industrial use only. Avoid contact with eyes, skin and clothing. Avoid breathing of vapors or mists. Use in well-ventilated area.

SECTION 7-HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:
Skin: May cause irritation with prolonged or repeated contact (dryness, redness)
Eyes: Mild eye irritant. May cause conjunctivitis, redness, swelling, tearing.
Inhalation: Mists may be irritating to mucous membranes in the nose, throat, and lungs.
Ingestion: Irritating to the mouth and throat. May cause headache, nausea, abdominal pain.
First Aid Procedures:
Skin: Flush with water. Seek medical attention if irritation persists.
Eyes: Flush with large quantities of water, holding eyelids open. Seek medical attention immediately.
Inhalation: Get to fresh air. Seek medical attention if irritation persists.
Ingestion: Do not induce vomiting. Drink large quantities of water. Seek medical attention immediately.

SECTION 8-SPECIAL PROTECTION INFORMATION

Respiratory Protection: No special requirements
Ventilation Requirements: No special requirements
Protective Gloves: Rubber gloves recommended.
Eye Protection: Safety glasses recommended
Other Protective Equipment: None

SECTION 9-SPILL OR LEAK PROCEDURES

Steps to be taken in Case Material is Released or Spilled: Floors will become slippery. Avoid walking in product. Ventilate area well. Keep unessential personnel away. Mop up or otherwise absorb and hold disposal. Avoid discharge to sewer or open waterways.
Waste Disposal Method: Any method in accordance with local, state and federal laws. Best method is to recycle or reuse for intended purpose. Consult local authorities for disposal in public sewer. Do not dispose of into storm drain, stream, river or to ground. Rinse container thoroughly before offering for recycling.

SECTION 10-REGULATORY INFORMATION

SARA Title III - Section 311/312 -Hazard Categories:
No - Fire Hazard
No - Sudden Release of Pressure Hazard
No - Reactivity Hazard
Yes - Immediate (acute) Health Hazard
No - Delayed (chronic) Health Hazard

Shipping Information:

FOR CONTAINERS > 1 Gallon : Cleaning Compound
Non-Hazardous
FOR 1 GALLON CONTAINERS : Cleaning Compound
Non-Hazardous
FOR CONTAINERS < 1 GALLON : Cleaning Compound

HMIS Hazardous Materials Identification System

Health	1
Flammability	0
Reactivity	0
Personal Protection	B

FOR EMERGENCY MEDICAL OR TRANSPORT INFORMATION: CHEM-TEL, Inc. @ 800-255-3924 (24 hours, 7 days per week)

This product contains the following toxic chemical(s) subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

CAS#	Chemical Name	Percent by Weight
	Not Applicable	

This product contains the following chemical(s) which have been established to be either a carcinogen or suspected carcinogen.

CAS#	Chemical Name	Percent by Weight
None	None	None

SECTION 11-OTHER INFORMATION

This company cannot anticipate all conditions of handling and use of this product. Therefore, this company accepts no responsibility for results obtained by the application of this information, or the safety and suitability of our products either alone or in combination with other products. It is the responsibility of the user to provide a safe workplace, using the health and safety information contained herein as a guide. This company will accept no liability for damages or loss incurred from the improper handling and use of this product