

E³

Environmental • Effective • Economical

Organic Acid Multi-Surface Cleaner



1:16

**General Purpose
Cleaning**



1:8

**Locker Rooms
& Showers**



1:8

**Toilet Bowls
& Urinals**

A concentrated, organic acid fortified, heavy-duty multi-purpose bathroom cleaner that is specially designed to address the environmental, safety and health concerns facing today's housekeeping professional. Readily biodegradable, this product will not accumulate in the environment and will not contribute to waste treatment plant sludge. Cleans away soap scum, mold & mildew stains, hard water deposits, rust stains, body oils, fats and dirt. Can be used to clean most surfaces such as windows, walls, floors, washroom fixtures, tubs, showers, toilet bowls and urinals. Especially effective on removing difficult stains from ceramic tile floors and grouting.

Stock # 997905



ENVIRONMENTALLY RESPONSIBLE COMPARISON

Traditional Products	E ³
Hydrochloric Acid	None
Phosphoric Acid	None
Nonylphenol ethoxylates	None
	Glycolic Acid
	Linear Alcohol Ethoxylates
	Cocamidopropyl Betaine
	Diethylene Glycol Butyl Ether
	Tripropylene Glycol Methyl Ether
pH 1-2	pH 4 – 5
Traditional Compound Descriptions:	E ³ Compound Descriptions:
<p>Hydrochloric Acid – a very strong mineral acid and used to remove mineral deposits and soap scum. However, it is highly corrosive to metal and human eyes, skin and nose.</p> <p>Phosphoric Acid – a relatively strong acid and used to remove mineral deposits and soap scum. However, it is irritating to human skin. Phosphate is plant nutrient that promotes algae blooms.</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>Glycolic Acid - A readily biodegradable organic acid that will not be an issue of environmental waste. It is used to remove mineral deposits and soap scum.</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>Cocamidopropyl Betaine – A readily biodegradable surfactant that is commonly used in cleaners such as non-irritating shampoos and bubble baths.</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>

PRODUCT SPECIFICATIONS

Dial Setting for 11 oz.:	#4 (1:16) General Cleaning #5 (1:8) Locker Room Shower Cleaning #5 (1:8) Toilet Bowl and Urinal Cleaning	Solubility:	Complete with water
Color:	Green	Emulsification:	Excellent
Odor:	Mild Odor	Detergency:	Excellent
pH:	4.0 – 5.0	Rinsability:	Excellent
Viscosity:	Water thin	Flash Point:	None
Foam:	High	Biodegradability:	Complete
Abrasive:	None	Storage/Stability:	3 years
Phosphate:	None	Weight Per Gallon:	8.93 lbs. Per gallon
		Freeze/Thaw Stability:	Keep from freezing



Cavalier Inc.

PO Box 11171 Norfolk, Va. 23517
Phone: 757-855-6091 Fax: 757-855-1818

MATERIAL SAFETY DATA SHEET

Prepared by: Regulatory Affairs Dept.

(Prepared According to 29 CFR 1910.1200)

N/A= Not Applicable
Effective Date: 8/05 Revision: N/A

SECTION 1-PRODUCT IDENTIFICATION AND SUPPLIER INFORMATION

	Product Name: Organic Acid Multi-Surface Cleaner Generic Name: Bathroom Cleaner Chemical Family: Detergent/acid blend Formula: Proprietary	Supplier's Name: Cavalier, Inc. Supplier's Address: PO Box 11171 Norfolk, Va. 23517 Phone: 757-855-6091 Fax: 757-855-1818 Supplier's Phone #:
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SECTION 2-INGREDIENT INFORMATION

CHEMICAL NAME	CAS NO.	WT. %	PEL	TWA-TLV	STEL-TLV
Water	7732-18-5	to 100			
Glycolic Acid	79-14-1	5 to 10			
Primary Ethoxylated Alcohol C9	68439-46-3	10 to 15			
Cocamidopropyl Betaine	61789-40-0	5 to 10			
Tripropylene Glycol Methyl Ether	25498-49-1	5 to 10			
Diethylene Glycol Butyl Ether	112-34-5	5 to 10			

SECTION 3-PHYSICAL DATA

Boiling Point (°F): 212° F. **Specific Gravity:** 1.072
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 green 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 Alkalis, Chlorine

SECTION 6-STORAGE AND HANDLING INFORMATION

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: Irritation with prolonged or repeated contact (dryness, redness)
Eyes: Eye irritant. May cause conjunctivitis, redness, swelling, tearing, possible corneal damage.
Inhalation: Mists are 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: Immediately 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:	Shipping Information:	HMIS Hazardous Materials Identification System
No - Fire Hazard	FOR CONTAINERS > 1 Gallon : Cleaning Compound	Health 2
No - Sudden Release of Pressure Hazard	Non-Hazardous	Flammability 0
No - Reactivity Hazard	FOR 1 GALLON CONTAINERS : Cleaning Compound	Reactivity 0
Yes - Immediate (acute) Health Hazard	Non-Hazardous	Personal Protection B
No - Delayed (chronic) Health Hazard	FOR CONTAINERS < 1 GALLON : Cleaning Compound	

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