



CERTIFIED PROFESSIONAL FLOOR CARE SYSTEM

For Use On:

Vinyl Tile
Linoleum
Terrazzo
Slate
Concrete



Z310 High Productivity Stripper

DESCRIPTION

A new generation floor finish stripper that rapidly penetrates and solubilizes floor finish. Powerful solvents combined with penetrating amines dissolve the finish on contact, reducing the waiting periods for removal of the finish. This product completely evaporates from the surface. Can be used with or without a floor machine.

DIRECTIONS

The desired concentration will depend on the build-up and age of the polish film. As a starting point dilute with cold water or mildly warm water as follows:
For Floor Machine Stripping System:

Diluted 1 part of product to 14 to 16 parts water, approximately 8 ounces per gallon.

The stripping solution may be applied with a mop or automatic scrubber. Allow to stand for 3 - 5 minutes, scrub with a rotary floor machine or automatic scrubber equipped with ACE stripping pads. Pick-up the solution and old finish with an ACE wet vacuum, automatic scrubber or clean mop. Allow floor to dry completely. If desired, a rinsing step can be added.

For Mop/Wet Vacuum Stripping System:

Diluted 1 part of product to 3 - 5 parts water, approximately 32 ounces per gallon depending on build-up.

Apply liberally with a mop to an area small enough so as not allow the solution to dry and allow to stand for 3 to 5 minutes. Agitate with a mop and remove solution and old finish with an ACE wet vacuum. Allow floor to dry completely. If complete stripping is not accomplished repeat the above procedure before application of floor finish.

Use Z-510 to neutralize floor.

Approximate Coverage is 100 square feet per Ready to Use (Diluted) Gallon

NOTE: As prolonged soaking in concentrated strippers may damage some asphalt tiles, a spot test is recommended before general use.

PRODUCT SPECIFICATIONS

Active Ingredients:	55.0 ± 0.5%	Emulsification:	Excellent
Color:	Clear	Detergency:	Excellent
Odor:	Sassafras	Rinsability:	Excellent
pH:	12.5 - 13.0	Flash Point:	145°F (TCC)
Viscosity:	Water thin	Biodegradability:	Complete
Foam:	Low	Storage/Stability:	2 years
Abrasives:	None	Weight per Gallon:	8.27 lbs./gal.
Phosphate Content:	None	Freeze / Thaw Stability:	Keep from freezing
Solubility:	Complete with water		



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Gem Supply

1312 W. Washington St.
Orlando, FL 32805
(800) 422-9886
www.gemsupply.net

SECTION 1-PRODUCT IDENTIFICATION AND SUPPLIER INFORMATION

Product Name: Z-310 High Productivity Stripper	Supplier's Name: Gem Supply
Generic Name: High Productivity Stripper	Supplier's Address: 1312 W. Washington St.
Chemical Family: Solvent Detergent Blend	Supplier's Address: Orlando, FL 32805
Formula: Proprietary	Supplier's Phone #: (407) 849-6163

SECTION 2-INGREDIENT INFORMATION

CHEMICAL NAME	CAS NO.	WT. %	PEL	TWA-TLV	STEL-TLV
Water	7732-18-5	to 100			
2-Butoxyethanol	111-76-2	40 to 50	25 ppm	25 ppm	N/A
Ethanolamine	141-43-5	5 to 10	N/A	8mg/M ³	N/A
Nonionic Surfactant	9016-45-9	0 to 5			
Potassium Fluoroalkyl Carboxylate (C8)	2991-51-7	0 to 5			
Perfume Oils	N/A	< 1			

SECTION 3-PHYSICAL DATA

Boiling Point (°F): 210 F.
Vapor Pressure: 20mm Hg @ 68 F.
% Volatile: 96+
Solubility in Water: Complete
Physical Description: Thin liquid with characteristic odor.

Specific Gravity: .994
Vapor Density (Air=1): >1
pH: 11.5 – 12.5
Evaporation Rate (Water=1): <1

SECTION 4-FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): 145 F. (TCC)
Upper Explosion Limit: 10.6
Lower Explosion Limit: 1.1
Extinguishing Media: Alcohol foam, water fog, CO₂ or dry chemical.
Special Firefighting Procedures: Wear self-contained breathing apparatus for confined areas. Keep fire exposed containers cool with water spray.
Unusual Fire and Explosion Hazards: Vapors heavier than air.

SECTION 5-REACTIVITY DATA

Stability: Stable
Hazards Decomposition Products: Alkaline vapors in a fire.

Hazardous Polymerization: None
Incompatibility (Materials to Avoid): Strong acids.

SECTION 6-STORAGE AND HANDLING INFORMATION

Combustible liquid- Avoid contact with heat, spark or open flame. Keep out of reach of children. For use by trained personnel only. Keep unauthorized personnel away when applying to floor. Keep container closed during storage. For institutional and industrial use only. Avoid contact with eyes, skin and clothing. Wear protective eyewear, gloves and footwear when handling. Avoid breathing of vapors. Use in well-ventilated area only.

SECTION 7-HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:
Skin: Severe skin irritant. May cause moderate reddening, swelling, and possible skin damage.
Eyes: Severe eye irritant. Liquid and mists may damage eyes, causing corneal damage.
Inhalation: Vapors and mists may be irritating to mucous membranes in the nose, throat, and lungs.
Ingestion: Irritating and corrosive to the mouth and throat. May cause headache, nausea, abdominal pain, vomiting, and diarrhea. Excessive amounts may cause collapse.
First Aid Procedures:
Skin: Flush with water. Seek medical attention if irritation persists.
Eyes: Contact damage is immediate. 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: Use NIOSH approved organic vapor respirator or self-contained breathing apparatus in confined or poorly ventilated areas.
Ventilation Requirements: Provide mechanical exhaust to keep TLV of Section 2 ingredients below acceptable limits.
Protective Gloves: Chemical resistant rubber or neoprene.
Eye Protection: Chemical splash goggles or full-face shield.
Other Protective Equipment: Eye wash station nearby. Protective outerwear and rubber boots should be worn when using.

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. 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. If discarded, this material and containers should be treated as hazardous waste based on the characteristic of ignitability as defined under federal RCRA regulations (40 CFR 261). Consult local authorities for disposal in public sewer. Do not dispose of into storm drain, stream, river or to ground. Rinse container thoroughly before discarding in trash.

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
 Yes - Delayed (chronic) Health Hazard

Shipping Information:
 FOR CONTAINERS > 1 Gallon : Cleaning Compound
 FOR 1 GALLON CONTAINERS : Cleaning Compound
 FOR CONTAINERS < 1 GALLON : Cleaning Compound

HMS Hazardous Materials Identification System

Health	3
Flammability	2
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
111-76-2	Glycol Ether	46%

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	

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.

REVISION: 5/11/11; Changed pH range to be more consistent with QA; jcg