

## FORMULA X® UHP ULTRA HIGH PERFORMANCE STRIPPER

*Powerful, ultra-high performance, non-ammoniated formula cuts through heavy build-up and hard to remove water-based seals in record time.*

### FEATURES

- *Cool water formula evaporates more slowly than hot water formulas*
- *Quick acting – requires as little as 5-10 minutes contact time*
- *Labor savings – removes most sealers in one pass*
- *Economical – works effectively at high dilution ratios*
- *Low foaming*
- *Pleasant citrus fragrance*



### RECOMMENDED FLOOR SURFACES

All resilient tile flooring, linoleum and most types of terrazzo, marble and quarry tile.

Not recommended for asphalt or rubber tile flooring.

**NOTE:** Test floor for color fastness in an inconspicuous area.

### PRODUCT DATA

Description:	Non-ammoniated, ultra high performance stripper
Appearance:	Clear liquid
Fragrance:	Citrus
Viscosity (Brookfield):	<10 centipoise @ 68.F. (20.C)
Flash Point:	150°F, (66°C) ASTM method D56
Shelf Life:	2 years, ASTM D1791-93 (1998)
Density:	8.3 lb per gal @ 68.F. 1.00 kg per liter @ 20.C
Freeze/Thaw:	Passes 3 cycles ASTM D3209-93 (1998)

### PRECAUTIONS

Keep out of reach of children. Keep container sealed when not in use. Keep from freezing. Combustible. Gloves and safety glasses recommended. Floor may become very slippery. Wear appropriate non-slip safety shoes. This product should not be used in contact with asphalt or rubber tile flooring, wood, or painted surfaces. Please read the Material Data Sheet before handling this product.

### ORDERING INFORMATION

Product #503FS:	2 x 2.50 gallon per case (2 x 9.5 liter)
Product #503MP:	4 x 1.06 gallon per case (4 x 4 liter)

### DIRECTIONS FOR USE

1. Mix Formula X UHP Floor Stripper in mop bucket or autoscrubber according to the following dilution ratios:  
**For sealer and coating removal:**  
 1:4 32 US oz per gal cold water (1,25 liters per 5 liters cold water)  
**For finish removal only:**  
 1:8 16 US oz per gal cold water (0,62 liter per 5 liters cold water)  
**For use on linoleum:**  
 1:16 8 US oz per gal cold water (0,31 liter per 5 liters cold water)
2. Apply solution liberally to floor and allow to soak for 5-10 minutes. Do not let floor dry - keep floor wet using additional solution as required.
3. Scrub floor with recommended autoscrubber or Pioneer Eclipse stripping machine with Pioneer Eclipse pads or brushes.
4. Pick up dirty solution with autoscrubber or wet vac.
5. Use a clean mop or autoscrubber to rinse floor twice with a Pioneer Eclipse neutral cleaner following label directions.
6. Rinse floor again with clean cold water. Allow to dry thoroughly before applying sealer or coating.

**NOTE:** Works most effectively in cold water.

*Pioneer Eclipse®*

# FORMULA X UHP ULTRA HIGH PERFORMANCE STRIPPER

**LAST REVISION DATE:** 03/07/06  
**MANUFACTURER:** Pioneer Eclipse® Corporation  
 Sparta, NC 28675 Phone: 1-336-372-8080  
**FOR CHEMICAL EMERGENCY:** Spill, Leak, Fire,  
 Exposure or Accident **CALL CHEMTREC - Day or**  
**Night 1-800-424-9300** Toll Free in the  
 Continental US **483-7616** in DISTRICT OF  
 COLUMBIA. For calls originating outside the US:  
 Call Collect **1-202-483-7616** Washington, DC.

## SECTION I: GENERAL INFORMATION

**PRODUCT NAME:** Formula X® UHP Ultra High  
 Performance Stripper

**PRODUCT #:** 503

**PRODUCT TYPE:** Non-ammoniated, ultra high  
 performance stripper

**PRECAUTIONS:** Corrosive. Do not get in eyes,  
 on skin or clothing. Keep container sealed when  
 not in use. Keep out of reach of children.

**HEALTH:** 2

**FLAMMABILITY:** 2

**REACTIVITY:** 0

**NFPA HAZARD RATINGS**

4-EXTREME 3-HIGH 2-MODERATE  
 1-SLIGHT 0-INSIGNIFICANT



## SECTION II: HAZARDOUS INGREDIENTS

**INGREDIENT:** Monoethanolamine

**CAS#:** 141-43-5

**%:** 5-10

**OSHA PEL:** 3 ppm (TWA)

**ACGIH TLV:** 6 ppm (STEL) 3 ppm (TWA)

**LD<sub>50</sub> SPECIES & ROUTE:** 1.2 g/kg rat, oral

**INGREDIENT:** \*Ethylene Glycol Butyl Ether

**CAS#:** 111-76-2

**%:** 20-25

**OSHA PEL:** 50 ppm (skin) (TWA)

**ACGIH TLV:** 20 ppm (TWA)

**LD<sub>50</sub> SPECIES & ROUTE:** 0.5 g/kg rat, oral

\* This chemical is subject to the reporting requirements of Section  
 313 of SARA Title III.

N/E = Not Established, N/L = Not Listed  
 N/A = Not Applicable

## SECTION III: PHYSICAL/CHEMICAL DATA

**APPEARANCE:** Clear liquid

**pH:** 12.2 ± 0.5

**BOILING POINT:** 100°C / 212°F

**EVAPORATION RATE:** Less than water

**FREEZING POINT:** 0°C / 32°F

**VAPOR DENSITY:** Greater than air

**VOLATILE BY WEIGHT:** 92-95%

**VAPOR PRESSURE:** Less than water

**DENSITY:** 8.3 lb per gal @ 68°F

1.00 kg per liter @ 20°C

**SOLUBILITY IN WATER:** Miscible

## SECTION IV: FIRE AND EXPLOSION DATA

**FLASH POINT:** 150°F, 66°C ASTM method D56

**EXPLOSIVE LIMITS:**

LOWER: N/E UPPER: N/E

**EXTINGUISHING MEDIA:** Water spray, CO<sub>2</sub>, dry  
 chemical, alcohol-type or universal type foams

**SPECIAL FIRE FIGHTING PROCEDURES:** Do not  
 spray a solid stream of water or foam directly  
 into hot liquid. This may cause frothing.  
 Firefighters should wear NIOSH approved  
 breathing apparatus.

**HAZARDOUS COMBUSTIBLE PRODUCTS:** N/A

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

Materials can splatter above 100°C / 212°F.

## SECTION V: REACTIVITY DATA

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur.

**INCOMPATIBILITY (MATERIALS TO AVOID):**

Strong acids and strong oxidizing agents

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Carbon monoxide, carbon dioxide  
 and nitrogen oxides

**REACTIVITY CONDITIONS:** None

## SECTION VI: HEALTH HAZARD DATA

**EYES:** May cause severe burns or possible  
 corneal damage. For eye contact, flush with a  
 large amount of water for at least 15 minutes.  
 See a physician immediately.

**SKIN:** Irritation, reddening or possible damage  
 upon repeated or prolonged contact. For skin  
 contact, wash affected areas with soap and  
 water. Seek medical attention if irritation persists.

**INHALATION:** Vapor or mist can cause headache,  
 nausea and irritation of the eyes, nose, throat and  
 lungs. For overexposure, move subject to fresh  
 air. Seek medical attention if symptoms persist.

**INGESTION:** May cause nausea, abdominal  
 discomfort, vomiting, diarrhea. If ingested, give  
 two glasses of water or milk and do not induce  
 vomiting. Remove by endotracheal intervention.  
 Seek medical attention immediately.

**CHRONIC EFFECTS AND MEDICAL CONDITIONS**  
**AGGRAVATED BY OVEREXPOSURE:** Main hazard  
 is due to product's severe irritant properties.  
 Treatment should be directed at the control of  
 symptoms and the clinical condition of  
 the patient.

**CARCINOGEN:** Non-carcinogenic

**REPRODUCTIVE EFFECTS:** N/E

**TERATOGENICITY:** N/E

**MUTAGENICITY:** N/E

**THRESHOLD LIMIT VALUE:** See Section II.

## SECTION VII: SPILL, LEAK & DISPOSAL PROCEDURES

**SMALL SPILLS:** Absorb spill with inert material  
 (e.g. sand, earth) and dispose of as waste  
 material in accordance with local, state and  
 federal regulations. Neutralize residue with  
 vinegar, mild acid or large amount of water.

**LARGE SPILLS:** Keep spectators away. Floors  
 may be slippery; use care to avoid falling. Dike  
 and contain spill with inert material (e.g. sand,  
 earth). Transfer liquid to containers for recovery or  
 disposal and solid diking material to separate  
 containers for disposal. Keep spills and cleaning  
 runoff out of sewers and open bodies of water.

**WASTE DISPOSAL:** Dispose of as waste  
 material in accordance with local, state,  
 and federal regulations.

## SECTION VIII: SPECIAL PROTECTION

**EYE PROTECTION:** Chemical splash goggles  
 (ANSI Z87.1-1989 or approved equivalent)

**RESPIRATORY PROTECTION:** None required  
 when permissible airborne concentrations are  
 not exceeded. In emergency, use approved  
 positive pressure self-contained breathing device.

**VENTILATION:** Mechanical local exhaust  
 ventilation at point of contamination release

**OTHER PROTECTIVE EQUIPMENT:** As required  
 by employer code. Rubber boots and chemical  
 resistant gloves recommended.

## SECTION IX: SPECIAL PRECAUTIONS

**HANDLING AND STORAGE:** Storage temperature  
 (MAX. 60°C / 140°F) (MIN. 1°C / 34°F)

**OTHER PRECAUTIONS:** Keep from freezing.

## SECTION X: ADDITIONAL INFORMATION

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 furnishing of such information.

This MSDS has been provided to you in accordance with  
 the OSHA HAZARD COMMUNICATION STANDARD  
 (29CFR1910.1200).

\*\*\*IMPORTANT SAFETY INFORMATION  
 DO NOT DISCARD\*\*\*

\*\*PLEASE ROUTE TO COMPANY SAFETY OFFICER\*\*

Pioneer Eclipse®

LTPD503-03/06