

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

- 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)
- 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.
- Scrub floor with recommended autoscrubber or Pioneer Eclipse stripping machine with Pioneer Eclipse pads or brushes.
- Pick up dirty solution with autoscrubber or wet vac.
- Use a clean mop or autoscrubber to rinse floor twice with a Pioneer Eclipse neutral cleaner following label directions.
- 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)

LD₅₀ 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)

LD₅₀ 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, CO₂, 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

Neither this data sheet nor any statement
 contained herein grants or extends any license,
 expressed or implied, in connection with patents
 issued or pending which may be the property of
 the manufacturer or others. The information in
 this data sheet has been assembled by the
 manufacturer based on its own studies and the
 work of others. The manufacturer makes no
 warranties, expressed or implied, as to the
 accuracy, completeness or adequacy of the
 information contained herein. The manufacturer
 shall not be liable (regardless of fault) or the
 vendee, the vendee's employees or anyone for
 any direct, special or consequential damages
 arising out of or in connection with the
 accuracy, completeness, adequacy or
 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