

## ENVIROSTAR GREEN® FLOOR MAINTAINER

### ADVANCED FORMULATION CONTAINING

- NO phosphates
- NO 2-butoxyethanol (butyl)
- NO VOC's
- NO alkyl phenol ethoxylate surfactants
- NO environmentally toxic preservatives
- NO added fragrances

### FEATURES

- Autoscrubber or mop-on application
- Cleaner and maintainer in one
- Concentrated for economical use
- Classified by UL as to slip resistance only



Pioneer Eclipse EnviroStar Green Products have been formulated in Partnership with the US Environmental Protection Agency's Design for the Environment Program.



#### RECOMMENDED FLOOR SURFACES

All resilient tile floors and most types of terrazzo, marble, concrete, quarry tile and sealed wood floors.

#### PRODUCT DATA

Description:	Water based floor coating maintainer
Appearance:	Light green liquid
Fragrance:	None added
Slip Resistance:	Meets ASTM D2047-99 requirements. Classified by UL as to slip resistance only.
Viscosity (Brookfield):	<10 centipoise @ 68°F (20°C)
pH (undiluted):	9.2 ± 0.5, ASTM E70-97
pH (1:64):	8.4 ± 0.5, ASTM E70-97
pH (1:128):	8.0 ± 0.5, ASTM E70-97
Drying Time:	Approximately 15 minutes (diluted)
Density:	8.7 lb per gal @ 68° 1.04 kg per liter @ 20°C
Freeze/Thaw:	Passes 3 cycles ASTM D3209-93 (1998)
Shelf Life:	2 years, ASTM D1791-93 (1998)

#### PRECAUTIONS

Keep out of the reach of children. Keep container sealed when not in use. Avoid freezing. If frozen, allow to return to room temperature slowly and then mix thoroughly before using.

#### ORDERING INFORMATION

Product #213D: 4 x 1.06 gallon per case (4 x 4 liter)

#### DIRECTIONS FOR USE: AUTOSCRUBBER APPLICATION

1. Sweep floor with an untreated dust mop to remove loose dirt.
2. Dilute EnviroStar Green Maintainer in autoscrubber per the following dilution ratio:  
1:64 2 US oz per gal water (80 ml per 5 liters water)
3. Using a red cleaning pad, scrub and pick up the solution in one pass.
4. Allow floor to dry thoroughly.
5. Burnish with recommended Pioneer Eclipse burnisher and pad.

#### DIRECTIONS FOR USE: MOP ON APPLICATION

1. Sweep floor with an untreated dust mop to remove loose dirt.
2. Dilute EnviroStar Green Maintainer in mop bucket per the following dilution ratio:  
1:128 1 US oz per gal water (40 ml per 5 liters water)
3. Damp mop floor.
4. Allow floor to dry thoroughly.
5. Burnish with recommended Pioneer Eclipse burnisher and pad.

# ENVIROSTAR GREEN FLOOR MAINTAINER

**LAST REVISION DATE:** 02/23/06

**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:** EnviroStar Green® Floor  
Maintainer

**PRODUCT #:** 213D

**PRODUCT TYPE:** Water based floor maintainer

**PRECAUTIONS:** Possible skin and eye irritant.  
Keep container sealed when not in use. Keep out  
of reach of children.

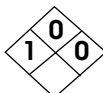
**FLAMMABILITY:** 0

**REACTIVITY:** 0

**HEALTH:** 1

**NFPA HAZARD RATINGS**

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



## SECTION II: INGREDIENTS

**INGREDIENT:** Water

**CAS#:** 7732-18-5

**%:** 75-77

**OSHA PEL:** N/E

**ACGIH TLV:** N/E

**LD<sub>50</sub> SPECIES & ROUTE:** N/E

**INGREDIENT:** Polyoxyethylene

**CAS#:** 25322-68-3

**%:** 10-15

**OSHA PEL:** N/E

**ACGIH TLV:** N/E

**LD<sub>50</sub> SPECIES & ROUTE:** 730 g/kg rat, oral

**INGREDIENT:** Biodegradable Non-ionic Surfactant

**CAS#:** 68439-46-3

**%:** 5-10

**OSHA PEL:** N/E

**ACGIH TLV:** N/E

**LD<sub>50</sub> SPECIES & ROUTE:** 1.4 mg/kg rat, oral

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

N/A = Not Applicable

## SECTION III: PHYSICAL/CHEMICAL DATA

**APPEARANCE:** Light green liquid

**pH:** 9.2 ± 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:** 75-77%

**VAPOR PRESSURE:** Less than water

**DENSITY:** 8.7 lb per gal @ 68°F

1.04 kg per liter @ 20°C

**SOLUBILITY IN WATER:** Miscible

## SECTION IV: FIRE AND EXPLOSION DATA

**FLASH POINT:** Non-combustible

**EXPLOSIVE LIMITS:**

LOWER: N/A UPPER: N/A

**EXTINGUISHING MEDIA:** N/A

**SPECIAL FIRE FIGHTING PROCEDURES:** None

**HAZARDOUS COMBUSTIBLE PRODUCTS:** None

**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 bases

**HAZARDOUS DECOMPOSITION PRODUCTS:** N/A

**REACTIVITY CONDITIONS:** None

## SECTION VI: HEALTH HAZARD DATA

**EYES:** Slightly irritating to eyes. For eye contact,  
flush with a large amount of water for at least 15  
minutes. See a physician if irritation persists.

**SKIN:** Slightly irritating to skin upon repeated or  
prolonged contact. For skin contact, wash  
affected areas with soap and water.

**INHALATION:** Vapor or mist may cause  
irritation of the eyes, nose, throat and lungs. For  
overexposure, move subject to fresh air.

**INGESTION:** May cause irritation to mouth,  
esophagus and stomach. If ingested, drink  
several glasses of water and do not induce  
vomiting. Seek medical attention.

**CHRONIC EFFECTS AND MEDICAL CONDITIONS**

**AGGRAVATED BY OVEREXPOSURE:** Prolonged or  
repeated contact can cause drying, defatting and  
dermatitis to skin.

**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).

**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

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**EYES:** None required under normal conditions of  
use. Safety glasses recommended.

**SKIN:** If prolonged or repeated contact is  
possible, chemical-resistant clothing (e.g., rubber  
gloves) is recommended.

**RESPIRATORY:** No respiratory protection is  
required if ventilation is adequate.

**ENGINEERING CONTROLS:** Good general room  
ventilation is expected to be adequate. Local  
exhaust ventilation (e.g., fans) may be necessary  
when general ventilation does not keep airborne  
concentrations below any exposure limits.

## SECTION IX: SPECIAL PRECAUTIONS

**HANDLING AND STORAGE:**

Storage temperature (MAX. 60°C / 140°F)  
(MIN. 1°C / 34°F)

**OTHER PRECAUTIONS:** Avoid freezing. If frozen  
allow to return to room temperature slowly. Mix  
thoroughly before using.

## SECTION X: ADDITIONAL INFORMATION

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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

LTPD213D-02/06