

ENVIROSTAR GREEN® GLASS & SURFACE CLEANER

Concentrated, non-solvent, no-VOC, non-streak formula for glass, mirrors, chrome, and other hard surfaces.

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

- Cleans glass, mirrors, chrome and other hard surfaces
- Non-solvent formula
- Non-streaking
- Concentrated for economical use



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



This product meets Green Seal's environmental standard for industrial and institutional cleaners based on its reduced human and aquatic toxicity and reduced smog production potential.



RECOMMENDED SURFACES

Glass, tile, plexiglass and metallic surfaces

PRODUCT DATA

Description:	Concentrated, non-ammonia, non-solvent, non streak formula glass and surface cleaner
Appearance:	Clear light blue liquid
Fragrance:	None added
Viscosity (Brookfield):	<10 centipoise @ 68°F (20°C)
pH (undiluted):	9.0 ± 0.5 ASTM E70-97
Density:	8.5 lb per gal at 68°F 1.02 kg per liter at 20°C
Freeze/Thaw:	Passes 3 cycles ASTM D3209-93 (1998)
Shelf Life:	2 years, ASTM D1791-93 (1998)

PRECAUTIONS

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

ORDERING INFORMATION

Product #331D: 4 x 1.06 gallon per case (4 x 4 liters)

DIRECTIONS FOR USE:

1. Mix EnviroStar Green Glass & Surface Cleaner according to the following dilution ratio:
 1:32 4 US oz per gallon water
 1:32 1 US oz per quart water
 1:32 30 ml per 1 liter water

2. Place solution in a clean spray bottle. Adjust spray nozzle to "mist".

3. Apply to the surface to be cleaned:

For windows: Use a squeegee to avoid dripping.

For mirrors and other surfaces: Use squeegee or paper towels.

ENVIROSTAR GREEN GLASS & SURFACE CLEANER

LAST REVISION DATE: 03/22/06

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® Glass &
Surface Cleaner
PRODUCT #: 331D
DESCRIPTION: Glass and surface cleaner
PRECAUTIONS: Possible skin and eye irritant.
Keep container sealed when not in use. Keep out
of reach of children.

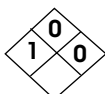
HEALTH: 1

FLAMMABILITY: 0

REACTIVITY: 0

NFPA HAZARD RATINGS

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



SECTION II: INGREDIENTS

INGREDIENT: Water

CAS#: 7732-18-5

%: 91-93

OSHA PEL: N/E

ACGIH TLV: N/E

LD₅₀ SPECIES & ROUTE: N/E

INGREDIENT: Biodegradable Anionic Hydrotrope

CAS#: 1300-72-7

%: 2-5

OSHA PEL: N/E

ACGIH TLV: N/E

LD₅₀ SPECIES & ROUTE: 650 mg/kg rat, oral

INGREDIENT: Biodegradable Nonionic Surfactant

CAS#: 1643-20-5

%: 2-5

OSHA PEL: N/E

ACGIH TLV: N/E

LD₅₀ SPECIES & ROUTE: 2700 mg/kg mouse,
oral

N/E = Not Established, NL = Not Listed

N/A = Not Applicable

SECTION III: PHYSICAL/CHEMICAL DATA

APPEARANCE: Clear light blue liquid

pH: 9.0 ± 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: 91-93%

VAPOR PRESSURE: Less than water

DENSITY: 8.5 lb per gal @ 68°F

1.02 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:

None

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) and dispose of as waste
material in accordance with local, state and
federal regulations.

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

Neither this data sheet nor any statement
contained herein grants or extends any license,
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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®

LTPD331D-03/06