

ECONOSTAR® ALL PURPOSE NEUTRAL CLEANER

Low foaming formulation designed to remove dirt and soil from all washable surfaces and enhance appearance.

FEATURES

- pH neutral
- Low foaming
- Pleasant lemon fragrance
- Easy application with autoscrubber, mop, or trigger sprayer
- Safe for everyday use
- Concentrated for economical use



RECOMMENDED SURFACES

All washable surfaces including resilient tile flooring, terrazzo, linoleum, marble, quarry tile, sealed wood, laminate, restroom fixtures, walls, partitions, etc.

PRODUCT DATA

Description:	Low foaming all purpose cleaner
Appearance:	Clear yellow liquid
Fragrance:	Lemon
Viscosity (Brookfield):	<10 centipoise @ 68°F (20°C)
pH (undiluted):	7.5 ± 0.5 ASTM E70-97
pH (diluted 1:64):	7.0 ± 0.5 ASTM E70-97
Density:	8.4 lb per gal @ 68°F 1.00 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 #336FS:	2 x 2.5 gallon per case (2 x 9.5 liter)
Product #336MP:	4 x 1.06 gallon per case (4 x 4 liter)

DIRECTIONS FOR USE

1. Mix EconoStar All Purpose Neutral Cleaner per the following dilution ratio:

Light Cleaning

1:128 1 US oz per gal water (40 ml per 5 liters water)

Medium Cleaning (including floors)

1:64 2 US oz per gal water (80 ml per 5 liters water)

Heavy Cleaning

1:16 8 US oz per gal water (320 ml per 5 liters water)

2. Apply to surface to be cleaned using an autoscrubber, mop, or trigger sprayer.
3. Rinse with clean water if necessary.

Pioneer Eclipse®

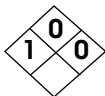
ECONOSTAR ALL PURPOSE NEUTRAL CLEANER

LAST REVISION DATE: 02/24/06
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: EconoStar® All Purpose
 Neutral Cleaner
PRODUCT #: 336
PRODUCT TYPE: Low foaming all purpose 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: Nonionic Surfactant
CAS#: 68439-46-3
%: 3-7
OSHA PEL: N/E
ACGIH TLV: N/E
LD₅₀ SPECIES & ROUTE: 1.4 ml/kg rat, oral

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

SECTION III: PHYSICAL/CHEMICAL DATA

APPEARANCE: Clear yellow liquid
pH: 7.5 ± 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: 94-96-%
VAPOR PRESSURE (mm Hg): N/E
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,
 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®