

Concentrated, non-butyl glass and surface cleaner.

FEATURES

- · Cleans mirrors, tile and metallic surfaces with no residue
- · Non-ammonia, non-butyl formula
- Non-streaking
- Concentrated for economical use



RECOMMENDED SURFACES

Glass, mirrors, tile, plexiglass and metallic surfaces.

PRODUCT DATA

Description: Concentrated, non-ammonia, non-butyl

glass and surface cleaner

Appearance: Clear blue liquid Fragrance: Fresh and clean

 $\begin{tabular}{lll} Viscosity (Brookfield): & <10 centipoise @ 68$_{$\rm F}$ (20$_{$\rm i}$C)\\ pH (undiluted): & 9.0 \pm 0.5 \ ASTM E70-97\\ Density: & 7.8 lb per gal @68$_{$\rm i}$F\\ \end{tabular}$

0.94 kg per liter @ 20¡C

Flash Point: 128¡F (53¡C) ASTM D56

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 #313MP: 4 x 1.06 gallon per case (4 x 4 liter)

DIRECTIONS FOR USE

Mix StarShine Glass & Surface Cleaner per the following dilution ratio:

1:32 4 US oz per gallon water (160 ml per 5 liters water)

- Place solution in a clean spray bottle. Adjust spray bottle nozzle to "mist".
- 3. Apply to the surface to be cleaned.
- 4. For windows:

Use a squeegee to avoid dripping.

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

STARSHINE 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.

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: StarShine Glass and

Surface Cleaner PRODUCT #: 313

PRODUCT TYPE: Concentrated non-butyl

alass cleaner

PRECAUTIONS: Flammable. May be irritant in long term contact with skin. Keep container sealed when not in use. Keep out of reach of children.

FLAMMABILITY: 2
REACTIVITY: 0
HEALTH: 1

NFPA HAZARD RATINGS

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

SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT: 1-Methoxy-2-Propanol

CAS#: 107-98-2 %: 60-70 OSHA PEL: NE

ACGIH TLV: 100 ppm (TWA) 150 ppm (STEL) LD 50 SPECIES & ROUTE: 5660 mg/kg rat, oral

INGREDIENT: 2-Propanol **CAS#**: 67-63-0 %: 10-20

OSHA PEL: 400 ppm (TWA)

ACGIH TLV: 400 ppm (STÉL) 200 ppm (TWA) LD 50 SPECIES & ROUTE: 5.045 g/kg rat, oral

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

SECTION III: PHYSICAL/CHEMICAL DATA

APPEARANCE: Clear 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: 99+%
VAPOR PRESSURE: Less than water
DENSITY: 7.8 lb per gal @ 68°F

0.94 kg per liter @ 20°C **SOLUBILITY IN WATER:** Miscible

SECTION IV: FIRE AND EXPLOSION DATA

FLASH POINT: 128°F (53°C) ASTM D56

EXPLOSIVE LIMITS:

LOWER: N/E UPPER: N/E

EXTINGUISHING MEDIA: Dry chemical, CO_2 ,

water spray or foam

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):

None Known

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 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.

SECTION VII: SPILL, LEAK & DISPOSAL PROCEDURES

SMALL SPILLS: Absorb spill with inert material (e.g. sand) 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). 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.

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

