

StarShine® POT & PAN CLEANER

A high solids formula for pots, pans, equipment, and utensils producing long lasting, hard working suds that dissolve even heavy grease and grime

FEATURES

- *pH-balanced and non-irritating to the skin*
- *Long-lasting suds*
- *Unscented*



RECOMMENDED SURFACES

Pots, Pans, and Dishes

PRODUCT DATA

Description:	Dishwashing Detergent
Appearance:	Light yellow
Fragrance:	Unscented
Viscosity (Brookfield):	400 ± 50 centipoise @ 68.F (20.C)
pH:	6.5 ± 0.5 ASTM E70-97
pH @ 1:128:	7.0 ± 0.5 ASTM E70-97
Density:	8.5 lb per gal @ 68.F 1.02 kg per liter @ 20.C
Detergency:	Excellent
Foaming:	Excellent
Emolliency:	Good
Rinsibility:	Excellent
Flash point:	None
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 #317:	2 x 2.64 gallon per case (2 x 10 liter)
Product #317MP:	4 x 1.06 gallon per case (4 x 4 liter)

DIRECTIONS FOR USE

1. First thing in the morning, the three compartment sink set up. Fill the left compartment with hot water and StarShine Pot & Pan Cleaner diluted at:
1:128 1 US oz per gallon water (40 ml per 5 liters water).
Fill the center compartment with cool water for rinsing.
Fill the right compartment with warm water and StarShine Disinfectant Sanitizer diluted at:
1:512 1 US oz per 4 gallons water (10 ml per 5 liters water).
2. Scrape soil from utensils, dishes and other items before placing them in the first sink. Submerge each item in the left sink. Allow the solution to penetrate the soils.
3. Thoroughly clean all items using a brush or clean disposable cloth. Change the detergent solution when it becomes visibly soiled.
4. Submerge items in the center sink and rinse thoroughly with the plain, cool water. Change rinse water when it becomes visibly soiled.
5. Submerge utensils, dishes and other items in the right sink for 1-2 minutes, according to local sanitary codes. Place all items upside down on a drain rack. Sanitizer solution should be checked regularly using medium test strips to ensure sufficient amounts for sanitation.
6. Allow utensils, dishes and other items to air dry. Do not rinse after sanitizing.

Pioneer Eclipse®

STARSHINE POT & PAN 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 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 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 I: GENERAL INFORMATION

PRODUCT NAME: StarShine® Pot & Pan Cleaner

PRODUCT #: 317

PRODUCT TYPE: Dishwashing Detergent

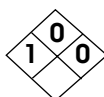
PRECAUTIONS: N/A

FLAMMABILITY: 0

REACTIVITY: 0

HEALTH: 1

NFPA HAZARD RATINGS

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

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 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

SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT: Anionic/nonionic surfactants

CAS #: N/A

%: 25-30 %

OSHA PEL: N/A

ACGIH TLV: N/A

LD₅₀ SPECIES & ROUTE: N/A

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

SECTION III: PHYSICAL/CHEMICAL DATA

APPEARANCE: Thick light yellow liquid

pH: 6.5 ± 0.5

BOILING POINT: 100°C / 212°F

EVAPORATION RATE: Less than water

VAPOR DENSITY: Greater than air

VOLATILE BY WEIGHT: 70-80%

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:

Materials can splatter above 100°C / 212°F.

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.

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