

StarShine® FOAMING DEGREASER

An extra-strength, all-purpose degreaser designed to remove the toughest grease build-up

FEATURES

- Heavy-duty degreaser that penetrates and emulsifies grease, oil, fat, and grime
- Cleans without butyl or other glycol ethers
- Concentrated for economical use
- Thick, rich foam clings to vertical surfaces for thorough cleaning and labor savings



RECOMMENDED SURFACES

Walls, floors and food processing equipment

PRODUCT DATA

Description:	Heavy-duty foaming cleaner that penetrates tough grease on hard surfaces
Appearance:	Clear liquid
Fragrance:	Mild
Viscosity (Brookfield):	20 ± 5 centipoise @ 68°F (20°C)
pH (undiluted):	13.3 ± 0.5 ASTM E70-97
Density:	9.0 lb per gal @ 68°F 1.08 kg per liter @ 20°C
Shelf life:	2 years, ASTM D1791-93 (1998)
Freeze/thaw:	Passes 3 cycles ASTM D3209-93 (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 #316:	2 x 2.64 gallon per case (2 x 10 liter)
Product #316MP:	4 x 1.06 gallon per case (4 x 4 liter)

DIRECTIONS FOR USE

PREPARATION: Remove or cover all food products. Remove heavy buildup of greasy soils manually from floors, surfaces, and equipment using a scraper prior to cleaning.

Soak Cleaning:

1. Mix StarShine Foaming Degreaser with hot water into a bucket or sink per the following dilution ratio:
1:21 6 US oz per gallon (240 ml per 5 liters)
2. Soak parts for 5-10 minutes, use a sponge to remove difficult greasy soils.

Mop Bucket Cleaning:

1. Mix StarShine Foaming Degreaser with hot water in mop bucket per the following dilution ratio:
1:21 6 US oz per gallon (240 ml per 5 liters)
2. Apply solution liberally to the floor with a mop or sponge.
3. Allow the solution to soak and penetrate greasy soils. Scrub with a brush or floor machine as necessary.
4. Pick up solution with a mop and rinse the floor thoroughly with water.

Spray Application:

1. Use full strength in sprayer reservoir. Proportioning device should be set from 1:5 for heavily soiled areas up to 1:25 for lighter soiled areas.
2. Apply and let stand for five minutes.
3. Using medium hot water, rinse all cleaned surfaces well.

Note: Not for use on painted or aluminum surfaces.

Note: To avoid food contamination, rinse all surfaces with water.

Pioneer Eclipse®

STARSHINE FOAMING DEGREASER

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 at

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 IV: FIRE AND EXPLOSION DATA

FLASH POINT: None

EXPLOSIVE LIMITS:

LOWER: N/A UPPER: N/A

EXTINGUISHING MEDIA: N/A

SPECIAL FIRE FIGHTING PROCEDURES: None

HAZARDOUS COMBUSTIBLE PRODUCTS: N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

WASTE DISPOSAL: Landfill or incinerate the contaminated solids and diking material according to local, state and federal regulations concerning disposal of hazardous materials. Non-salvageable liquid should be drummed and turned over to a licensed hazardous waste disposal facility.

SECTION VIII: SPECIAL PROTECTION

EYE PROTECTION: Chemical splash goggles (ANSI Z87.1-1989 or approved equivalent)

RESPIRATORY PROTECTION: None required when permissible airborne concentrations are not exceeded. In emergency, use approved positive pressure self-contained breathing device.

VENTILATION: Mechanical local exhaust ventilation at point of contamination release

OTHER PROTECTIVE EQUIPMENT: As required by employer code. Rubber boots and chemical resistant gloves recommended.

SECTION IX: SPECIAL PRECAUTIONS

HANDLING AND STORAGE: Storage temperature (MAX. 60°C / 140°F) (MIN. 1°C / 34°F)

OTHER PRECAUTIONS: Keep from freezing.

SECTION I: GENERAL INFORMATION

PRODUCT NAME: StarShine Foaming Degreaser

PRODUCT #: 316

PRODUCT TYPE: Heavy-duty foaming cleaner

PRECAUTIONS: Corrosive to skin and eyes. Keep container sealed when not in use. Keep out of reach of children.

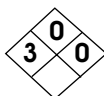
FLAMMABILITY: 0

REACTIVITY: 0

HEALTH: 3

NFPA HAZARD RATINGS

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



SECTION V: REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY (MATERIALS TO AVOID):

Strong acids

HAZARDOUS DECOMPOSITION PRODUCTS:

None Known

REACTIVITY CONDITIONS: None

SECTION VI: HEALTH HAZARD DATA

EYES: May cause severe burns or possible corneal damage. For eye contact, flush with a large amount of water for at least 15 minutes. See a physician immediately.

SKIN: Irritation, reddening or possible damage upon repeated or prolonged contact. For skin contact, wash affected areas with soap and water. Seek medical attention if irritation persists.

INHALATION: Vapor or mist can cause headache, nausea and irritation of the eyes, nose, throat and lungs. For overexposure, move subject to fresh air. Seek medical attention if symptoms persist.

INGESTION: May cause nausea, abdominal discomfort, vomiting, diarrhea. If ingested, drink two glasses of water or milk and do not induce vomiting. Remove by endotracheal intervention. Seek medical attention immediately.

CHRONIC EFFECTS AND MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: Main hazard is due to product's severe irritant properties. Treatment should be directed at the control of symptoms and the clinical condition of the patient.

CARCINOGEN: Non-carcinogenic

REPRODUCTIVE EFFECTS: N/E

TERATOGENICITY: N/E

MUTAGENICITY: N/E

THRESHOLD LIMIT VALUE: See Section II.

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: Potassium Hydroxide

CAS#: 1310-58-3

%: <5

OSHA PEL: N/L

ACGIH TLV: 2 mg/m³ (ceiling) (STEL)

LD₅₀ RAT: 365 mg/kg rat, oral

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

N/A = Not Applicable

SECTION III: PHYSICAL/CHEMICAL DATA

APPEARANCE: Clear liquid

pH: 13.3 ± 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: 85-90%

VAPOR PRESSURE: Less than water

DENSITY: 9.0 lb per gal @ 68°F

1.08 kg per liter @ 20°C

SOLUBILITY IN WATER: Miscible

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. Neutralize residue with vinegar, mild acid or large amount of water.

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.

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