

StarShine®

CHLORINATED FOAMING DEGREASER

Excellent for removal of carbonized, fatty, proteinaceous and blood soils from floors, walls, and food processing equipment. May be applied through foam-generating or pressure-washing equipment.

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

Processing equipment and conveyors, floors, and walls

NOTE: Do not use on aluminum or painted surfaces.

PRODUCT DATA

Description:	Heavy duty chlorinated foaming cleaner
Appearance:	Clear liquid
Fragrance:	Chlorine
Viscosity (Brookfield):	400 ± 50 centipoise @ 68°F (20°C)
pH (undiluted):	13.3 ± 0.5 ASTM E70-97
Density:	10.0 lb per gal @ 68°F 1.20 kg per liter @ 20°C
Shelf life:	1 year, 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. Keep from open flames. Gloves and safety glasses are recommended. Avoid freezing. If frozen, allow to return to room temperature slowly and mix thoroughly before using.

ORDERING INFORMATION

Product #326:	2 x 2.64 gallon per case (2 x 10 liter)
Product #326MP:	4 x 1.06 gallon per case (4 x 4 liter)

DIRECTIONS FOR USE

Preparation: Remove or cover all food products. Manually remove heavy buildup of greasy soils manually from floors, surfaces and equipment using a scraper as necessary before cleaning.

Soak Cleaning: Dilute StarShine Chlorinated Foaming Degreaser into bucket or sink per the following dilution ratio:

1:20 6 US oz per gallon of hot water
(250 ml per 5 liters of hot water)

Soak parts for 5-10 minutes, use a brush or sponge as necessary to agitate and remove difficult greasy soils.

Mop Bucket Cleaning: Dilute StarShine Chlorinated Foaming Degreaser in a mop bucket per the following dilution ratio:

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

Apply solution liberally to the surface with a mop or sponge. Allow solution to soak and penetrate greasy soils. Scrub with a brush or floor machine as necessary. Pick up solution with a mop and rinse the floor thoroughly with water.

Spray Application: Use full strength in sprayer reservoir.

Heavily Soiled Areas: Dilution should be set per the following dilution ratio:

1:20 6 US oz per gallon water (250 ml per 5 liters water)

Lightly Soiled Areas: Dilution should be set per the following dilution ratio:

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

Use medium hot water. Apply and let stand for five minutes. Rinse well.

NOTE: Do not use on aluminum or painted surfaces.

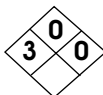
Pioneer Eclipse®

STARSHINE CHLORINATED FOAMING DEGREASER

LAST REVISION DATE: 08/21/03
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 I: GENERAL INFORMATION

PRODUCT NAME: StarShine Chlorinated Foaming Degreaser
PRODUCT #: 326
PRODUCT TYPE: Heavy-duty chlorinated 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 II: HAZARDOUS INGREDIENTS

INGREDIENT: Sodium Hydroxide
CAS#: 1310-73-2
%: <5
OSHA PEL: 2 mg/m³
ACGIH TLV: 2 mg/m³
LD 50 RAT: N/E

INGREDIENT: Sodium Hypochlorite
CAS#: 7681-52-9
%: <5
OSHA PEL: N/E
ACGIH TLV: N/E
LD 50 RAT: 5800 mg/kg

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: 67-72%
VAPOR PRESSURE: Less than water
DENSITY: 10.0 lb per gal @ 68°F
 1.20 kg per liter @ 20°C
SOLUBILITY IN WATER: Miscible

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

SECTION V: REACTIVITY DATA

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur.
INCOMPATIBILITY (MATERIALS TO AVOID):
 Ammonia, acids
HAZARDOUS DECOMPOSITION PRODUCTS:
 Chlorine
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 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.

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 X: ADDITIONAL INFORMATION

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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®