

StarShine® DRAIN TREATMENT

An effective treatment for the prevention of clogged drains and odors in all types of drain lines, pipes, and grease traps.

FEATURES

- *Digests organic waste*
- *Enzymes and odor counteractants eliminate odors at their source*
- *Long lasting, pleasant fragrance*



RECOMMENDED APPLICATIONS

Drains, Floor Drains, Sewers, Sinks and Traps

PRODUCT DATA

Description:	Drain Treatment
Appearance:	Opaque white
Fragrance:	Floral
Viscosity (Brookfield):	10 ± 5 centipoise @ 68°F (20°C)
pH:	7.5 ± 0.5 ASTM E70-97
Density:	8.4 lb per gal @ 68°F 1.01 kg per liter @ 20°C
Detergency:	Excellent
Acids:	None
Alkali:	None
Temperature range:	50°F – 100°F
Toxicity:	Nontoxic
Flash point:	None
Freeze/Thaw:	Passes 3 cycles ASTM D3209-93 (1998)
Shelf life:	1 year, ASTM D1791-93 (1998)

PRECAUTIONS

Keep out of the reach of children. Keep container sealed when not in use. Safety glasses and gloves are recommended. Avoid freezing. If frozen, allow to return to room temperature slowly and mix thoroughly before using.

ORDERING INFORMATION

Product #322MP: 4 x 1.06 gallon per case (4 x 4 liter)

DIRECTIONS FOR USE:

Drain Lines and Down Pipes:

Use StarShine Drain Treatment a minimum of two times weekly and a maximum of four times depending on the usage of the facility. Add product amounts according to the following table.

Pipe Size	Dosage	Frequency
2" (5 cm)	4 US oz (120 ml)	Twice per week
4" (10 cm)	8 US oz (240 ml)	Twice per week
6" (15 cm)	12 US oz (360 ml)	Twice per week
8" (20 cm)	16 US oz (480 ml)	Twice per week

Grease Traps:

1. For grease traps less than 20 cubic feet (0.5 m³) capacity, add 4-5 US oz (120-150 ml) of product daily by pouring in a sink or pipeline closest to the trap. This should be at night or when the traps are used the least.
2. After adding, flush down with a cup of lukewarm water.
3. For grease traps larger than 20 cubic feet (0.5 m³), add 18-20 US oz (540-600 ml) daily using the same procedure.

NOTE: Do not flush with hot water or use with bleach, disinfectants or chemical drain openers, as these will harm product performance.

Pioneer Eclipse®

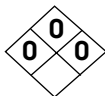
STARSHINE DRAIN TREATMENT

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 I: GENERAL INFORMATION

PRODUCT NAME: StarShine® Drain Treatment
PRODUCT #: 322
PRODUCT TYPE: Drain Treatment
PRECAUTIONS: Possible skin and eye irritant.
 Keep container sealed when not in use. Keep out
 of reach of children.
FLAMMABILITY: 0
REACTIVITY: 0
HEALTH: 0
NFPA HAZARD RATINGS

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

**SECTION II: HAZARDOUS INGREDIENTS**

** There are no hazardous ingredients in
 this product**

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

SECTION III: PHYSICAL/CHEMICAL DATA

APPEARANCE: Opaque white 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: 93-95%
VAPOR PRESSURE: Less than water
DENSITY: 8.4 lb per gal at 68°F
 1.01 kg per liter at 20°C
SOLUBILITY IN WATER: Dispersible

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 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 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.

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,
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 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®