

STARSHINE® TILE & GROUT CLEANER

Ready-to-use, powerful, heavy duty chlorinated cleaner

FEATURES

- Removes mold, mildew, and soap scum from most hard surfaces
- Cleans tile, grout, bathtubs, shower doors, sinks, and vinyl shower curtains.



RECOMMENDED SURFACES

Tile, grout, bathtubs, shower doors, sinks, and vinyl shower curtains.

PRODUCT DATA

Description:	Ready to use heavy-duty chlorinated cleaner
Appearance:	Clear liquid
Fragrance:	Chlorine
Viscosity (Brookfield):	<10 centipoise @ 68°F (20°C)
pH:	12.9 ± 0.5 ASTM E70-97
Density:	9.2 lb per gal @ 68°F 1.10 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. Avoid freezing. If frozen, allow to return to room temperature slowly and mix thoroughly before using.

ORDERING INFORMATION

Product #327RTU:	32 US oz (0.95 liters) 12 spray bottles per case
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DIRECTIONS FOR USE:

1. Spray on surface & wait until stain dissolves.
2. Wipe clean with a cloth or sponge.
3. Rinse thoroughly with clean, cold water.

Note: Severe, skin and eye irritant. Spray mist irritating to nose, throat, and lungs.

STARSHINE TILE & GROUT CLEANER

LAST REVISION DATE: 12/5/07
MANUFACTURER: Amano Pioneer Eclipse® Corp.
 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® Tile & Grout Cleaner
PRODUCT #: 327
PRODUCT TYPE: Heavy-duty grout 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: 2



NFPA HAZARD RATINGS
 4-EXTREME 3-HIGH 2-MODERATE
 1-SLIGHT 0-INSIGNIFICANT

SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT: Sodium Hydroxide
CAS#: 1310-73-2
%: <2
OSHA PEL: 2 mg/m³ (TWA)
ACGIH TLV: 2 mg/m³ (STEL)
LD 50 RAT: 200 mg/kg rat, oral

INGREDIENT: Sodium Hypochlorite
CAS#: 7681-52-9
%: <2
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: 12.9 ± 0.5
BOILING POINT: 100°C / 212°F
EVAPORATION RATE: Less than water
FREEZING POINT: -0°C / 32°F
VAPOR DENSITY: More than air
VOLATILE BY WEIGHT: 83-87%
VAPOR PRESSURE: Less than water
DENSITY: 9.2 lb per gal @ 68°F
 1.10 kg per liter @ 20°C
SOLUBILITY IN WATER: Miscible in all proportions

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:
 None Known
REACTIVITY CONDITIONS: None

SECTION VI: HEALTH HAZARD DATA

EYES: May cause 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: Safety glasses
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

