

## StarShine® TOILET BOWL CLEANER

*Cleans and deodorizes in one easy step!*

### FEATURES

- *Thick HCl formulation dissolves rust stains and hard water deposits quickly*
- *Pleasant fragrance*
- *Easy to use*



### RECOMMENDED SURFACES

Toilet bowls, tanks, urinals, porcelain enamel

### PRODUCT DATA

Description:	Toilet bowl cleaner
Appearance:	Thick blue liquid
Fragrance:	Mint
pH:	1.5 ± 0.5 ASTM E70-97
Solubility in Water:	Complete
Density:	8.7 lb per gal @ 68°F 1.04 kg per liter @ 20°C
Flash Point:	None
Flammability:	None
Freeze/Thaw:	Passes 3 cycles ASTM D3209-93 (1998)
Shelf Life:	2 years, ASTM D1791-93 (1998)

### PRECAUTIONS

Keep out the reach of children. Severe skin and eye irritant. Chemically resistant gloves and safety goggles are recommended. Keep container sealed when not in use.

### ORDERING INFORMATION

Product #320Q12:	32 US oz (0.95 liters) Twelve 1-qt containers per case
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### DIRECTIONS FOR USE:

#### Toilets:

1. If severely stained, remove as much water as possible.
2. Pour generously into bowl and onto bowl swab.
3. Thoroughly clean all interior surfaces of the bowl including under the rim.
4. Rinse and flush.

#### Urinals:

1. Wet swab and apply cleaner liberally to the inside of the urinal, concentrating under flush rim.
2. Rinse thoroughly and flush.

#### Toilet tanks:

1. Clean regularly with cleaner on swab and flush thoroughly.

#### Porcelain enamel:

1. Dilute with 3 parts water.
2. Apply with swab.
3. Flush immediately with clean, cold water.

**NOTE:** DO NOT USE ON PORCELAIN ENAMEL THAT IS NOT ACID RESISTANT. Use only if surface is not cracked or chipped.

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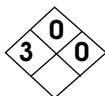
## STARSHINE TOILET BOWL CLEANER

**LAST REVISION DATE:** 03/22/06  
**MANUFACTURER:** 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**  
**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® Toilet Bowl Cleaner  
**PRODUCT #:** 320  
**PRODUCT TYPE:** Cleaner & Deodorant  
**PRECAUTIONS:** Severe skin and eye irritant. 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:** Hydrochloric acid  
**CAS#:** 7647-01-0  
**%:** 9.49  
**OSHA PEL:** 5 ppm (ceiling)  
**ACGIH TLV:** 2 ppm (STEL) (ceiling)  
**LD<sub>50</sub> SPECIES & ROUTE:** 0.9 g/kg rat, oral

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

**SECTION III: PHYSICAL/CHEMICAL DATA**

**APPEARANCE:** Thick blue liquid  
**pH:** 1.5 ± 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:** 8.7 lb per gal @ 68°F  
 1.04 kg per liter @ 20°C  
**SOLUBILITY IN WATER:** Complete

**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:** 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):**  
 Strong bases and bleach  
**HAZARDOUS DECOMPOSITION PRODUCTS:**  
 Hydrogen chloride  
**REACTIVITY CONDITIONS:** None

**SECTION VI: HEALTH HAZARD DATA**

**EYES:** Severe eye irritant. Liquid and mist can  
 cause tearing, possible swelling of the  
 conjunctiva, and corneal injury. Possible  
 irreversible eye damage. Hold eyelids open.  
 Flush with a steady gentle stream of water for  
 15 minutes. Seek medical attention immediately.  
**SKIN:** Severe skin irritant. Corrosive. Causes skin  
 burns. Remove contaminated clothing. Wash  
 affected area with plenty of soap and water.  
 Seek medical attention.  
**INHALATION:** Remove to fresh air.  
**INGESTION:** May be irritating or corrosive to the  
 mouth, throat, and upper gastrointestinal tract.  
 May be fatal if swallowed. Do not induce  
 vomiting. Give large quantities of milk, egg  
 white, gelatin solution, or if these are not  
 available, large quantities of water. Contact a  
 physician or poison control center immediately.  
**CHRONIC EFFECTS AND MEDICAL CONDITIONS**  
**AGGRAVATED BY OVEREXPOSURE:** Main hazard  
 is due to product's 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.  
**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 chemically  
 resistant gloves are recommended.

**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**

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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\*\*

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