

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

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.

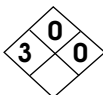
STARSHINE TOILET BOWL CLEANER

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
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)
LD₅₀ 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 AG
 GRAVATED 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).

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 PLEASE ROUTE TO COMPANY SAFETY OFFICER

