

### STARSHINE® TOILET BOWL CLEANER

#### 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: StarShine Toilet Bowl Cleaner Product Number: 320Q12  
 Product Type: Water based cleaner and deodorant

**Manufacturer Address:**

Amano Pioneer Eclipse Corporation  
 P.O. Box 909  
 1 Eclipse Road  
 Sparta, NC 28675

**Contact Information:**

Telephone: 1-336-372-8080  
 Email: msds@pioneer-eclipse.com  
 Internet: www.pioneer-eclipse.com

**FOR CHEMICAL EMERGENCY:** Spill, Leak, Fire, Exposure or Accident. Call CHEMTREC Day or Night.  
 Within USA and Canada 1-800-424-9300. Outside USA and Canada 1-703-527-3887 (collect calls accepted)

#### 2: HAZARDS IDENTIFICATION

**OSHA status:** Hazardous  
**Precautions:** Danger. Corrosive to skin and eyes. Harmful if swallowed. Avoid breathing vapor or fumes. Keep out of reach of children. Keep container closed when not in use.  
**Potential Health Effects:**  
**Eye Contact:** Causes eye burns. May cause permanent damage.  
**Skin Contact:** Causes skin burns. May cause permanent damage.  
**Inhalation:** May be harmful if inhaled. May cause irritation and corrosive effects to nose, throat and respiratory tract.  
**Ingestion:** Harmful if swallowed. May cause burns to mouth, throat and stomach.

		<b>Health:</b> 3
		<b>Flammability:</b> 0
		<b>Reactivity:</b> 0

#### 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient	CAS Number	Weight %
hydrochloric acid	7647-01-0	7 - 13

#### 4: FIRST AID MEASURES

**Eye Contact:** In case of contact, immediately flush eye with plenty of water for at least 15 minutes. (If easy to do, remove contact lenses, if worn). Get medical attention immediately.  
**Skin Contact:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes awhile removing contaminated clothing and shoes. Get medical attention immediately.  
**Inhalation:** If breathing is difficult. Remove subject to fresh air. Seek medical attention immediately.  
**Ingestion:** Call a physician or poison control center immediately. Do not induce vomiting. Seek medical advice immediately.

#### 5: FIRE FIGHTING MEASURES

**Extinguishing Media:** Water spray, CO<sub>2</sub>, dry chemical, alcohol-type or universal type foams  
**Special Fire Fighting Procedures:** Corrosive liquid. (See Sections 8 and 10.) Do not spray a solid stream of water or foam directly in hot liquid. This may cause frothing. Fire fighters should wear NIOSH approved breathing apparatus.  
**Hazardous Combustible Products:** N/A  
**Unusual Fire and Explosion Hazards:** Materials can splatter above 100° C / 212° F.

#### 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Put on appropriate personal protective equipment (see Section 8). Keep spectators away. Floors may be slippery; use care to avoid falling.  
**Environmental Precautions:** Keep spills and cleaning run-off out of sewers and open bodies of water.  
**Containment and Clean-Up**  
**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:** Neutralize spill area. 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.

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**Waste Disposal:** Landfill or incinerate the contaminated solids and diking material in accordance with 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.

#### 7: HANDLING AND STORAGE

**Handling:** Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use only in well-ventilated areas. Avoid breathing vapors or mists. Remove and wash contaminated clothing and footwear before re-use.

**Storage:** Storage temperature ( Max. 60°C/140°F - Min. 1°C/34°F)

**Other information:** Keep from freezing, product may coagulate. Keep container sealed when not in use. Keep out of reach of children.

#### 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

##### Exposure Limit Values:

Ingredient	CAS Number	ACGIH		OSHA	
		TWA	STEL	TWA	STEL
hydrochloric acid	7647-01-0	N/L	2ppm (ceiling)	N/L	5ppm (ceiling)

**Engineering Controls:** Ensure adequate general ventilation.

##### Personal Protective Equipment (PPE)

**Eye/Face Protection:** Chemical splash goggles (ANSI Z87.1-1989 or approved equivalent.)

**Skin Protection:** Rubber gloves recommended. If major exposure is possible, wear suitable protective clothing such as rubber boots, apron, etc.

**Respiratory Protection:** None required when permissible airborne concentrations are not exceeded. In an emergency, use approved positive pressure self-contained breathing device.

#### 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b> thick, blue liquid	<b>Odor:</b> mint
<b>Odor Threshold:</b> N/E	<b>pH:</b> < 1.0
<b>Freezing Point:</b> N/E	<b>Boiling Point:</b> >212° F
<b>Flash Point:</b> None	<b>Evaporation Rate:</b> N/E
<b>Viscosity:</b> N/E	<b>Upper/Lower Flammability limits:</b> N/A
<b>Vapor Pressure:</b> N/E	<b>Vapor Density:</b> N/E
<b>Relative Density:</b> 8.9 lb/gal 68°F (1.06 kg/L @ 20°C)	<b>Solubility:</b> soluble in water
<b>Partition Coefficient (n-octanol/water):</b> N/E	<b>Auto Ignition temperature:</b> N/E
<b>Decomposition Temperature:</b> N/E	<b>VOC Content:</b> N/E

#### 10: STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions.

**Hazardous reactions:** Adding water directly to the product may generate heat and cause product to splash. To avoid adverse reaction, always add product to water, do not add water to product.

**Conditions to avoid:** Improper order of dilution. High temperature.

**Incompatible materials:** Strong alkalis, oxidizers, organic matter, certain metals

**Hazardous decomposition products:** CO, CO<sub>2</sub>, H<sub>2</sub>

#### 11: TOXICOLOGICAL INFORMATION

**Acute Toxicity:** Not determined on product. Component data as follows:

Component	LD50 Oral- Rat (mg/kg)	LD50 Dermal - Rabbit (mg/kg)	LC <sub>50</sub> Inhalation- Rat (ppm)	Carcinogenicity	CA - Prop 65
hydrochloric acid	700	>5010	3124	N/L	N/L

##### LOCAL EFFECTS

**Skin contact:** Corrosive. Can cause skin burns.

**Eye contact:** Corrosive. Can cause eye burns.

**Sensitization:** None known

**Chronic effects:** None known

##### SPECIFIC EFFECTS

**Carcinogenicity:** None known

**Reproductive effects:** None known

**Teratogenicity:** None known

**Mutagenicity:** None known

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#### 12: ECOLOGICAL INFORMATION

Ecological testing has not been completed.

#### 13: DISPOSAL CONSIDERATIONS

Disposal of this material should be in accordance with local, regional and national regulations.

#### 14: TRANSPORT INFORMATION

**Proper Shipping Name:** Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric Acid [Muriatic] Acid ) **Hazard Class:** 8

**UN Number:** UN3264 **Packing Group:** II

320Q12 is shipped as Limited Quantity for package volume <1L per 49 CFR 172.

#### 15: REGULATORY INFORMATION

##### U.S. Regulations/Reporting

Ingredient	CAS Number	SARA 302/304	SARA 313	CERCLA
hydrochloric acid	7647-01-0	500 TPQ	Listed	5000 RQ

##### State Right to Know Status:

Ingredient	CAS Number	MA - RTK	NJ - RTK	PA - RTK	RI - RTK
hydrochloric acid	7647-01-0	Listed	Listed	Listed	Listed

##### Canada Regulations/Reporting

**WHMIS Hazard Symbol:**



This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

**WHMIS hazard class:** E, D2B

**Ingredients required for disclosure:**

Ingredient	CAS Number	Weight %	Classification
hydrochloric acid	7647-01-0	>1%	D1A, E

#### 16: OTHER INFORMATION

##### Abbreviations Used:

N/E - Not Established

N/A - Not applicable

N/L - Not Listed

##### Revision History:

6/23/2011 - format change to ANSI Z400.1-2004

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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\*\***