

STARSHINE® TOILET BOWL CLEANER

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: StarShine Toilet Bowl Cleaner
 Product Type: Cleaner and deodorant

Product Number: 320Q12

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.



Health: 3
Flammability: 0
Reactivity: 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, CO₂, 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.

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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.

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
Hydrogen chloride	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

Appearance: Thick, blue liquid	Odor: mint
Odor Threshold: N/E	pH: < 1.0
Freezing Point:	Boiling Point:
Flash Point:	Evaporation Rate: less than water
Viscosity:	Upper/Lower Flammability limits: N/A
Vapor Pressure: less than water	Vapor Density: greater than air
Relative Density:	Solubility: miscible
Partition Coefficient (n-octanol/water):	Auto Ignition temperature:
Decomposition Temperature:	VOC Content:

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.

Incompatible materials: Strong acids (or bases) and oxidizing agents.

Hazardous decomposition products: Carbon monoxide, carbon dioxide and nitrogen oxides.

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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 ₅₀ Inhalation-Rat (mg/l)	Carcinogenicity	CA - Prop 65

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.

12: ECOLOGICAL INFORMATION

Ecological testing has not been completed on the mixture; hazards are based on component data and mixture physical properties.

Aquatic Toxicity: Not determined.
Ecotoxicity: Material components are highly soluble in water. Limited toxicity tests and models indicate these materials should exhibit low toxicity to aquatic organisms.
Environmental Fate: Material components will biodegrade relatively rapidly in both soil and water, and not expected to persist in the environment. Due care should be taken to avoid accidental releases to aquatic or terrestrial systems.
Bioaccumulation: Because of the material high solubility and rapid biodegradability, it is unlikely that bioaccumulation will occur in aquatic or terrestrial systems. On the basis of available information this material is not expected to produce significant adverse environmental effects when used as directed.

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, n.o.s. ()
UN Number: UN1760
Hazard Class: 8
Packing Group: III
Medical First Aid Guide (MFAG): 730
Emergency Schedules (EmS): Fire F-A, Spillage S-B
Marine Pollutant: none

15: REGULATORY INFORMATION

U.S. Regulations/Reporting


Ingredient	CAS Number	SARA 302/304	SARA 313	CERCLA

State Right to Know Status:

Ingredient	CAS Number	MA - RTK	NJ - RTK	PA - RTK	RI - RTK

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Canada Regulations/Reporting

WHMIS Hazard Symbol: 

WHMIS hazard class: E: Corrosive

Ingredients required for disclosure:

Ingredient	CAS Number	Weight %	Classification

16: OTHER INFORMATION

Abbreviations Used:

N/E - Not Established

N/A - Not applicable

N/L - Not Listed

Revision History:

xx/xx/xxx- format change to ANSI Z400.1-2004

xx/xx/xxx-

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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****