

STARSHINE® TILE & GROUT CLEANER

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: StarShine Tile & Grout Cleaner (Ready to Use) Product Number: 327RTU

Product Type: Heavy-duty grout cleaner

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. Keep container closed when not in use. Keep out of reach of children.

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 Ingredients	CAS Number	Weight %
sodium hydroxide	1310-73-2	< 6
sodium hypochlorite	7681-52-9	< 2

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.

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. 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

Waste Disposal: drummed and turned over to a licensed hazardous waste disposal facility.

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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
sodium hydroxide	1310-73-2	N/E	2 mg/m ³ (Ceiling)	2 mg/m ³	N/E

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: clear liquid	Odor: chlorine odor
Odor Threshold: N/E	pH: 12 ± 0.5
Freezing Point: 32 °F / 0 °C	Boiling Point: 212 °F / 100 °C
Flash Point: none	Evaporation Rate: less than water
Viscosity: <10 centipoise @ 68 °F/ 20 °C	Upper/Lower Flammability limits: N/E
Vapor Pressure: less than water	Vapor Density: greater than air
Relative Density: 9.1 lb/gal @ 68°F / 1.09 lb/gal @ 20 °C	Solubility: 100% soluble in water
Partition Coefficient (n-octanol/water): N/E	Auto Ignition temperature: N/E
Decomposition Temperature: N/E	

10: STABILITY AND REACTIVITY

Stability: Stable under normal conditions

Hazardous reactions: None known

Conditions to avoid: None known

Incompatible materials: Strong acids and ammonia

Hazardous decomposition products: None known

11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Not determined on product.

Ingredient	LD50 Oral-Rat (mg/kg)	LD50 Dermal - Rabbit (mg/kg)	LC ₅₀ Inhalation-Rat (mg/l)	Carcinogenicity	CA - Prop 65
sodium hydroxide	220 (50% solution)	1350	N/A	N/L	N/L
sodium hypochlorite	5800 (mouse)	N/A	N/A	N/L	N/L

LOCAL EFFECTS

Skin contact: Corrosive. Can cause skin burns.

Eye contact: Corrosive. Can cause eye burns.

Sensitization: None expected

Chronic effects: None expected

SPECIFIC EFFECTS

Carcinogenicity: None known

Reproductive effects: None known

Teratogenicity: None known

Mutagenicity: None known

12: ECOLOGICAL INFORMATION

Ecological data not available.

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13: DISPOSAL CONSIDERATIONS

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

14: TRANSPORT INFORMATION

Based on packaging volume, this product is shipped under the Limited Quantity Exception.

15: REGULATORY INFORMATION

U.S. Regulations/Reporting:

Ingredient	CAS Number	SARA 302/304	SARA 313	CERCLA
sodium hydroxide	1310-73-2	N/L	N/L	1000 lb RQ
sodium hypochlorite	7681-52-9	N/L	N/L	100 lb RQ

State Right to Know Status:

Ingredient	CAS Number	MA - RTK	NJ - RTK	PA - RTK	RI - RTK
sodium hydroxide	1310-73-2	present	present	present	present
sodium hypochlorite	7681-52-9	present	present	present	N/L

Canada Regulations/Reporting

WHMIS Hazard Symbol:



WHMIS hazard class:

E

Ingredients required for disclosure:

Ingredient	CAS Number	Weight %	Classification
sodium hydroxide	1310-73-2	>1%	E
sodium hypochlorite	7681-52-9	>1%	E

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*.

16: OTHER INFORMATION

Abbreviations Used:

N/E - Not Established

N/A - Not applicable

N/L - Not Listed

Revision History:

04/01/2011- 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****