

STARSHINE GLASS AND SURFACE CLEANER

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: StarShine® Glass & Surface Cleaner (Ready to Use) Product Number: 313RTU
 Product Type: Non-butyl glass 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

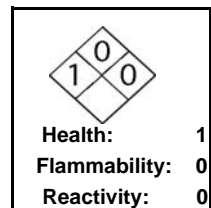
FOR CHEMICAL EMERGENCY: Spill, Leak, Fire, Exposure or Accident. Call CHEMTREC Day or Night.
 Within USA and Canada 1-800-424-9300. Outside USA and Canada 1-703-527-3887 (collect calls accepted)

2: HAZARDS IDENTIFICATION

OSHA status: Not classified as hazardous.
Precautions: Keep container closed when not in use. Keep out of reach of children.

Potential Health Effects:

Eye Contact: None expected under normal use.
Skin Contact: None expected under normal use.
Inhalation: None expected under normal use.
Ingestion: None expected under normal use.



3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient	CAS Number	Weight %
1-methoxy-2-propanol	107-98-2	1 - 5

4: FIRST AID MEASURES

Eye Contact: Rinse with plenty of water. If irritation develops and persists, seek medical attention.
Skin Contact: Rinse with plenty of water. If irritation develops and persists, seek medical attention.
Inhalation: If breathing is difficult, remove to fresh air. If symptoms persist, seek medical attention.
Ingestion: If ingested, do not induce vomiting. Seek medical attention.

5: FIRE FIGHTING MEASURES

Extinguishing Media: Dry chemical, water spray, foam, carbon dioxide
Special Fire Fighting Procedures: None
Hazardous Combustible Products: None
Unusual Fire and Explosion Hazards: Materials can splatter above 100°C/212°F

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Put on 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: 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 contains for disposal.
Waste Disposal: Landfill or incinerate the contaminated solids and diking material in accordance with local, state and federal regulations. Non-salvageable liquid should be drummed and disposed of in accordance with local, state and federal regulations.

STARSHINE GLASS AND SURFACE CLEANER

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: Avoid freezing. If frozen, allow to return to room temperature slowly. Mix thoroughly before using. 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
1-methoxy-2-propanol	107-98-2	100 ppm	150 ppm	not listed	not listed

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, blue liquid	Odor: Fresh and clean fragrance
Odor Threshold: N/E	pH: 9.0 ± 0.5
Freezing Point: 32°F / 0°C	Boiling Point: 212 °F / 100 °C
Flash Point: non-combustible	Evaporation Rate: less than water
Flammability: N/E	Upper/Lower Flammability limits: N/E
Vapor Pressure: less than water	Vapor Density: greater than air
Relative Density: 8.3 lb/gal @ 68°F/ 1.00 kg/l @ 20°C	Solubility: 100% soluble in water
Partition Coefficient (n-octanol/water): N/E	Auto Ignition temperature: N/E
Decomposition Temperature: N/E	Volatile by weight: 99+%
Viscosity: < 10 centipoise @ 68 °F (20 °C)	

10: STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Hazardous reactions: None expected.

Conditions to avoid: None known.

Incompatible materials: None known.

Hazardous decomposition products: None known.

11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Not determined on product.

Component	LD50 Oral - Rat (mg/kg)	LD50 Dermal - Rabbit (mg/kg)	LC ₅₀ Inhalation - Rat (mg/L)	Carcinogenicity	CA - Prop 65
1-methoxy-2-propanol	5,200	13,000	>54.6 (4hr)	N/L	N/L

LOCAL EFFECTS

Skin contact: May cause mild irritation

Eye contact: May cause mild irritation

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.

STARSHINE GLASS AND SURFACE CLEANER

13: DISPOSAL CONSIDERATIONS

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

14: TRANSPORT INFORMATION

This product is not classified as hazardous for transportation.

15: REGULATORY INFORMATION

U.S. Regulations/Reporting: Components not subject to US Reporting (SARA 302/304, 313, CERCLA)

State Right to Know Status:

Ingredient	CAS Number	MA - RTK	NJ - RTK	PA - RTK	RI - RTK
1-methoxy-2-propanol	107-98-2	present	present	present	present

Canada Regulations/Reporting: 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: Not a controlled product.

Ingredients required for disclosure:

Ingredient	CAS Number	Weight %	Classification
1-methoxy-2-propanol	107-98-2	>1%	B2

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, revision to Section 9 (pH)

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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****