

### STARSHINE GLASS AND SURFACE CLEANER

#### 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** StarShine Glass & Surface Cleaner **Product Number:** 313D  
**Recommended Use:** Non-butyl glass cleaner  
Concentrate - Dilute prior to use.  
Product intended for commercial and industrial use only.  
**Uses Advised Against:** Other than per labelled instructions

#### **Manufacturer Address:**

Amano Pioneer Eclipse Corporation  
P.O. Box 909  
1 Eclipse Road  
Sparta, NC 28675  
Telephone: 1-336-372-8080  
Email: msds@pioneer-eclipse.com  
Internet: www.pioneereclipse.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

**Classification:** Flammable Liquid - Category 3  
Eye Irritation - Category 2  
Specific Target Organ Toxicity (Single Exposure) - Category 3

**Signal Word:** Warning

#### **Pictogram:**



#### **Hazard Statements:**

Flammable liquid and vapour  
Causes serious eye irritation.  
May cause drowsiness or dizziness

#### **Precautionary Statements:**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Use explosion-proof equipment.  
Use non-sparking tools.  
Take action to prevent static discharges.  
Avoid breathing mist/vapours/spray.  
Wash thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/eye protection/face protection.  
Call a POISON CENTER/doctor if you feel unwell.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.  
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
Store in a well-ventilated place. Keep container tightly closed. Keep cool.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulation.

**Other Hazards:** None known

**Supplemental Information:** None

#### 3: COMPOSITION/INFORMATION ON INGREDIENTS



# SAFETY DATA SHEET

Conforms to 1910.1200  
Issued: May 27, 2015  
Supersedes: April 1, 2011

## STARSHINE GLASS AND SURFACE CLEANER

Ingredient	CAS Number	Weight % *
1-methoxy-2-propanol	107-98-2	40 - 70
2-propanol	67-63-0	10 - 30

\* Exact concentration of the ingredients has been withheld as a trade secret.

### 4: FIRST AID MEASURES

#### DESCRIPTION OF FIRST AID MEASURES

**Eye Contact:** Flush eyes with plenty of water, for at least 15 minutes. If easy to do, remove contact lenses if worn. If irritation persists, seek medical attention.

**Skin Contact:** Wash with soap and plenty of water. If irritation persists, seek medical attention.

**Inhalation:** If breathing is difficult, remove subject to fresh air. If symptoms persist, seek medical attention.

**Ingestion:** Call a physician or poison control center. Do not induce vomiting. Seek medical advice.

#### MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

**Eye Contact:** Can be irritating to eyes.

**Skin Contact:** Can be irritating to skin.

**Inhalation:** Spray mist may cause irritation to nose, throat and lungs.

**Ingestion:** May cause irritation to mouth, esophagus and stomach.

#### INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically.

### 5: FIRE-FIGHTING MEASURES

**Suitable Extinguishing media:** Water spray, CO<sub>2</sub>, dry chemical, alcohol-type or universal type foams

**Specific Hazards:** Do not spray a solid stream of water or foam directly in hot liquid. This may cause frothing.

**Protective Equipment and Precautions:** Fire fighters should wear NIOSH approved breathing apparatus. 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.

**Environment 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 containers 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.

### 7: HANDLING AND STORAGE

**Precautions for Safe Handling:** Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use in well-ventilated areas. Avoid breathing vapors or mists.

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

**Other Information:** Keep from freezing. Keep container sealed when not in use. Keep out of reach of children.

### 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Exposure Limits:

Ingredient	CAS Number	ACGIH		OSHA	
		TWA	STEL	TWA	STEL
1-methoxy-2-propanol	107-98-2	100 ppm	150 ppm	N/L	N/L
2-propanol	67-63-0	200 ppm	400ppm	400 ppm	N/L

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**Engineering Controls:** Use only with adequate ventilation. Use local ventilation and other engineering controls to maintain airborne contaminants below established and recommended exposure limits. If this product contains ingredients with exposure limits, monitoring may be required to determine the effectiveness of ventilation and other control measures.

**Personal Protective Equipment (PPE)**

**Eye/Face Protection:** Safety eyewear is recommended, to avoid chemical splashes and mists.  
**Skin Protection:** Chemical resistant gloves are recommended.  
**Respiratory Protection:** Respiratory protection should be worn when there is a potential of inadequate ventilation. If exposure limits are exceeded or symptoms are experienced, use an approved respirator.

**9: PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** clear, blue liquid  
**Odor:** Fresh and clean fragrance  
**Odor Threshold:** N/E  
**pH:** 9.0  
**Freezing Point:** N/E  
**Boiling Point:** N/E  
**Flash Point:** 95 °F / 35 °C  
**Evaporation Rate:** less than water  
**Flammability:** Flammable  
**Flammability limits:** N/E  
**Vapor Pressure:** N/E  
**Vapor Density:** N/E  
**Relative Density:** 7.8 lb/gal @ 68°F / 0.94kg/l @ 20°C  
**Solubility:** miscible in water  
**Partition Coefficient:** N/E  
**Auto Ignition temperature:** N/E  
**Decomposition Temperature:** N/E  
**Viscosity:** <10 centipoise @ 68 °F (20 °C)  
**VOC:** 77% (as supplied), 2.14% (1:32)

**10: STABILITY AND REACTIVITY**

**Reactivity:** Not reactive under normal conditions.  
**Stability:** Stable under normal conditions.  
**Hazardous reactions:** None expected.  
**Conditions to avoid:** None known.  
**Incompatible materials:** Strong acids and oxidizing agents  
**Hazardous decomposition products:** None known.

**11: TOXICOLOGICAL INFORMATION**

**Acute Toxicity:** Not determined on product.

**LOCAL EFFECTS**

**Skin contact:** May cause irritation.  
**Eye contact:** May cause irritation.  
**Sensitization:** None expected  
**Chronic effects:** None expected

**SPECIFIC EFFECTS**

**Carcinogenicity:** None known  
**Reproductive effects:** None known  
**Teratogenicity:** None known  
**Mutagenicity:** None known

**COMPONENT INFORMATION**

**STARSHINE GLASS AND SURFACE CLEANER**

Component	LD50 Oral-Rat (mg/kg)	LD50 Dermal - Rabbit (mg/kg)	LC <sub>50</sub> Inhalation-Rat (mg/l)
1-methoxy-2-propanol	5660	> 5000	1000 / 5 hr
2-propanol	> 5000	> 5000	> 500 / 1 hr

**Carcinogenicity:**

Component	IARC	NTP	OSHA
2-propanol	IARC - 3	N/L	N/L

**12: ECOLOGICAL INFORMATION**

<b>Ecotoxicity:</b>	Ecological testing has not been completed on the mixture.
<b>Persistence and Degradability:</b>	Data not available.
<b>Bioaccumulative Potential:</b>	Data not available.
<b>Mobility in Soil:</b>	Data not available.
<b>Other Adverse Effects:</b>	Data not available.

**13: DISPOSAL CONSIDERATIONS**

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

**14: TRANSPORT INFORMATION**

<b>UN Number:</b>	UN1993
<b>UN Proper Shipping Name:</b>	Flammable liquid, n.o.s. (1-methoxy-2-propanol)
<b>Hazard Class:</b>	3
<b>Packing Group:</b>	III
<b>Marine Pollutant:</b>	None
<b>Transport in Bulk:</b>	N/A
<b>Other Information:</b>	Package volumes < 5 L are shipped as Limited Quantity; as permitted by hazard class and quantity limits.

**15: REGULATORY INFORMATION**
**U.S. REGULATIONS/REPORTING:**

Ingredient	CAS Number	SARA 302/304	SARA 313	CERCLA
2-propanol	67-63-0	N/L	1%*	N/L

\*- de minimus concentration (strong acid process only)

**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
2-propanol	67-63-0	present	present	present	present

**CALIFORNIA PROPOSITION 65:** Components are not present on CA Prop 65 listing.

**16: OTHER INFORMATION**
**Abbreviations Used:**

N/A - Not applicable  
 N/E - Not Established  
 N/L - Not Listed  
 IARC 3- Unclassifiable as to carcinogenicity in humans.

**Revision Information:**

May 27, 2015 - Revisions to 1910.1200 GHS standard

### STARSHINE GLASS AND SURFACE CLEANER



Health: 2

Flammability: 3

Reactivity: 0

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This SDS 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\*\***