

Conforms to 1910.1200 Issued: May 26, 2016 Supersedes: May 27, 2015

313D

STARSHINE GLASS AND SURFACE CLEANER

Product Number:

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: StarShine Glass & Surface Cleaner

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: sds@pioneereclipse.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



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3: COMPOSITION/INFORMATION ON INGREDIENTS

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

DECRIPTION 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:** May cause mild irritation.

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, CO₂, 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.

<u>Protective Equipment and Precautions:</u> 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.



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8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

		ACGIH		OSHA	
Ingredient	CAS Number	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

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.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: clear, blue liquid

Odor: Fresh and clean fragrance

Odor Threshold: data not available

pH: 9.0

Freezing Point:data not availableBoiling Point:data not availableFlash Point:95 °F / 35 °CEvaporation Rate:less than water

Flammability (solid/gas):

Flammability limits:

Vapor Pressure:

Vapor Density:

not applicable to liquids data not available data not available data not available data not available

Relative Density: 7.8 lb/gal @ 68°F / 0.94kg/l @ 20°C

Solubility: miscible in water
Partition Coefficient: data not available
Auto Ignition temperature: data not available
Decomposition Temperature: data not available

 Viscosity:
 <10 centipoise @ 68 °F (20 °C)</td>

 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.

<u>Incompatible materials:</u> Do not mix with other chemicals unless stated on the product label.

Hazardous decomposition products: None known.

11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Not determined on product.

LOCAL EFFECTS SPECIFIC EFFECTS

May cause mild irritation. Carcinogenicity: None known Skin contact: Eye contact: Can cause irritation. Reproductive effects: None known None expected Teratogenicity: Sensitization: None known None expected **Mutagenicity:** Chronic effects: None known



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COMPONENT INFORMATION

Component	LD50 Oral- LD50 Dermal - L Rat (mg/kg) Rabbit (mg/kg)		LC₅₀ 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

Ecotoxicity: Ecological testing has not been completed on the mixture.

Persistence and Degradability:Data not available.Bioaccumulative Potential:Data not available.Mobility in Soil:Data not available.Other Adverse Effects:Data not available.

13: DISPOSAL CONSIDERATIONS

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

14: TRANSPORT INFORMATION

UN Number: UN1993

UN Proper Shipping Name: Flammable liquid, n.o.s. (1-methoxy-2-propanol)

Hazard Class:3Packing Group:IIIMarine Pollutant:NoneTransport in Bulk:N/A

Other Information: 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.

CANADA REGULATIONS/REPORTING: This product has been classified in accordance with the hazard criteria of the

Hazardous Product Regulation (HPR) and the SDS contains the information required

by the HPR.

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.

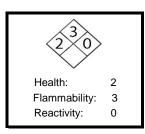


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Revision Information:

May 26, 2016 - Logo change, email address, minor edits



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This SDS has been provided to you in accordance with the OSHA Hazard Communication Standard (29CFR1910.1200).

IMPORTANT SAFETY INFORMATIONDO NOT DISCARD**PLEASE ROUTE TO COMPANY SAFETY OFFICER**