

PRODUCT NAME: STARSHINE GLASS & SURFACE CLEANER

I. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	: StarShine Glass & Surface Cleaner	Product Number: 313
PRODUCT USE	: Water based glass & surface cleaner	

MANUFACTURER	: Pioneer Eclipse Corp.	
P.O.BOX	: 909	
ADDRESS	: 1 Eclipse Road, Sparta NC28675, USA	
PHONE	: +1 336 372 8080	

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation: Preparation

INFORMATION ON HAZARDOUS INGREDIENTS

Chemical Name	Einecs No.	Weight %	CAS No.	Symbol	R phrases
1-Methoxy-2-Propanol	203-539-1	60-70	107-98-2	F (flammable) Xi (irritant)	R10
2-Propanol	200-661-7	10-20	67-63-0	Xi (irritant) F (flammable)	R11 R36, R67
Amines, C12-18-alkyldimethyl, N-oxides	273-281-2	2-5	68955-55-5	Xi (irritant) N (Dangerous for the Environment)	R38, R41, R50

*See section 16 for the full text of relevant R phrases

3. HAZARDS IDENTIFICATION

Physical/chemical hazards: Flammable
Human health hazards: Flammable and irritating to skin and eyes.
Environmental hazards: On the basis of available information this material/preparation is not expected to produce any significant adverse environmental effects when used as directed.

4. FIRST AID MEASURES

EFFECTS AND SYMPTOMS

Inhalation: None known
Ingestion: None known
Skin contact: May be mildly irritating
Eye contact: May be mildly irritating

FIRST AID MEASURES

Inhalation: No specific measures required
Ingestion: No specific measures required
Skin contact: Immediately wash off with plenty of water. If irritation develops, get medical attention.
Eye contact: Immediately wash out with water. If irritation develops, get medical attention.

5. FIRE FIGHTING MEASURES

Extinguishing media: Dry chemical, water spray, foam, carbon dioxide



MATERIAL SAFETY DATA SHEET

Conforms to 2001/58/EC Issued: 21/03/2006

PRODUCT NAME: STARSHINE GLASS & SURFACE CLEANER

Hazardous combustion products: None
Unusual fire and explosion hazards: Materials can splatter above 100°C/212°F.
Special fire fighting procedures: None

6. ACCIDENTAL RELEASE MEASURES

Small spills: Absorb spill on inert material (e.g. sand, earth) and dispose of as waste material in accordance with national and regional provisions.
Large spills: Keep spectators away. Floors may be slippery; use care to avoid falling. 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. Keep spills and cleaning runoff out of sewers and open bodies of water.

7. HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes
Storage: Storage temperature (Max. 60°C/140°F) (Min. 1°C/34°F). Keep from freezing, product may coagulate. Keep container sealed when not in use. Keep out of reach of children.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure limit values:

Component Name:	Source / Date	Value / Units	Type	Carcinogenic Listing*
1-Methoxy-2-propanol	US (ACGIH)/2005	100 ppm 369 mg/m ³	8 HRS / TWA.	N/L
1-Methoxy-2-propanol	US (ACGIH)/2005	150 ppm 553 mg/m ³	15 MIN / STEL.	
2-Propanol	US (ACGIH)/2005	200 ppm 491 mg/m ³	8 HRS / TWA.	N/L
2-Propanol	US (ACGIH)/2005	400 ppm 983 mg/m ³	15 MIN / STEL.	

*1 = OSHA, 2 = IARC, 3 = NTP, 4 = Others, N/L = Not Listed

Exposure controls: No special ventilation requirements. Ensure adequate general ventilation.

OCCUPATIONAL EXPOSURE CONTROLS

Respiratory protection: No specific personal protection is required.
Hand protection: Rubber gloves recommended
Eye protection: Safety glasses recommended
Skin protection: If major exposure is possible, wear suitable protective clothing such as rubber boots, apron, etc.

Environmental exposure controls: No specific environmental exposure controls required.

9. PHYSICAL AND CHEMICAL PROPERTIES

GENERAL INFORMATION

Appearance: Clear blue liquid

Odour: Slight solvent odour

IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION

pH: 8.50 to 9.50

Boiling point/boiling range: 100°C

Flash point: 53°C

Explosive properties: None

PRODUCT NAME: STARSHINE GLASS & SURFACE CLEANER

Oxidizing properties: Not an oxidizer
Relative density: 1.00 kg/l @ 20°C
Partition coefficient (n-octanol/water): Not determined
Vapour density: Greater than air

Vapour pressure: Less than water
Solubility: 100% soluble in water
Viscosity: less than 10 CPS @ 20°C
Evaporation rate: Less than water

10. STABILITY AND REACTIVITY

Conditions to avoid: None known
Materials to avoid: None known
Hazardous decomposition products: None known

11. TOXICOLOGICAL INFORMATION

COMPONENT SUMMARY

1-METHOXY-2-Propanol

LD₅₀: (Oral) Rat 5660 mg/kg

Potential Health Effects

Eye: Moderately irritating to eyes.
Skin: May cause moderate irritation to skin.
Ingestion: Causes irritation to gastrointestinal tract.
Inhalation: Slightly irritating to respiratory tract.
Chronic: May damage liver and kidneys.

CARCINOGENICITY: Not expected to occur.

2-Propanol

LD₅₀: (Oral) Rat 5045 mg/kg

Potential Health Effects

Eye: Causes eye irritation, reddening and burns.
Skin: Causes skin irritation and burns.
Ingestion: Can cause drowsiness, unconsciousness and death.
Inhalation: Causes severe irritation to upper respiratory tract and can lead to death.
Chronic: May cause skin effects.

CARCINOGENICITY: Not expected to occur

Amines, C12-18-alkyldimethyl, N-oxides

Potential Health Effects

Eye: Severely irritating to eyes. May cause permanent damage.
Skin: Irritating to skin.
Ingestion: May cause gastrointestinal irritation including nausea and diarrhea.
Inhalation: May be irritating to respiratory system.
Chronic: None known.

CARCINOGENICITY: Not expected to occur.

PREPARATION SUMMARY

Acute Toxicity:

LD₅₀ estimated to be greater than 5000 mg/kg.

PRODUCT NAME: STARSHINE GLASS & SURFACE CLEANER

LOCAL EFFECTS

Skin contact:	Irritating to skin upon repeated or prolonged contact.
Eye contact:	Slightly irritating
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

Component Summary

2-Propanol

Fish low toxicity: LC/EC/IC50 > 100 mg/l

1-METHOXY-2-Propanol

Fish low toxicity: LC/EC/IC50 > 1000 mg/l

Amines, C12-18-alkyldimethyl, N-oxides

Aquatic Toxicity: fish, CL50: <1 mg/l

Also poisonous for fish and plankton in water bodies.

PREPARATION SUMMARY

Ecotoxicity:	This preparation is highly soluble in water. Limited toxicity tests and models indicate this preparation should exhibit low toxicity to aquatic organisms.
Environmental Fate:	This preparation will biodegrade relatively rapidly in both soil and water, and will not persist in the environment. Due care should be taken to avoid accidental releases to aquatic or terrestrial systems.
Bioaccumulation:	Because of this preparation's high solubility and rapid biodegradability, it is unlikely that bioaccumulation will occur in aquatic or terrestrial systems. Models estimate that this material will preferentially partition to water versus air or soil. Based on available information, this preparation is not expected to produce any significant adverse environmental effects, when used as directed.

13. DISPOSAL

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

14. TRANSPORT INFORMATION

INTERNATIONAL TRANSPORTATION REGULATIONS:

UN number:	UN1993
Packing group:	III

LAND-ROAD/RAILWAY

Proper shipping name:	Flammable, n.o.s. mixture contains isopropyl alcohol and 1-methoxy-2-propanol
ADR/RID class:	3

PRODUCT NAME: STARSHINE GLASS & SURFACE CLEANER

ADR/RID item number: 30°C

SEA

Proper shipping name: Flammable, n.o.s. mixture contains isopropyl alcohol and 1-methoxy-2-propanol

IMDG class: 3
 Medical First Aid Guide (MFAG): 330
 Emergency Schedules (EmS): Fire F-E, Spillage S-E
 Marine Pollutant: none

15. REGULATORY INFORMATION

NATIONAL REGULATIONS: No additional national regulations are known to the supplier.

EU REGULATIONS

Hazard Symbol:



EU Classification: Classified as Flammable according to current legislation (67/548/EEC, 1999/45/EC).

Risk phrases: See section 16.

Safety phrases: S2-Keep out of reach of children.
 S7-Keep container tightly closed.
 S16-Keep away from sources of ignition-No smoking.
 S24/25-Avoid contact with eyes and skin.
 S26-In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S28a-After contact with skin, wash immediately with plenty of water.
 S37/39- Wear suitable gloves and eye/face protection.
 S61-Avoid release to the environment.

EINECS Status: All ingredients are included in the EINECS inventories.

CANADA CPR Status: This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations*.

Other Data

The surfactant contained in this preparation complies with the biodegradability criteria laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member states and will be made available to them, at their direct request or at the request of the detergent manufacturer.

PRODUCT NAME: STARSHINE GLASS & SURFACE CLEANER**16. OTHER INFORMATION****Relevant R phrases**

R10-Flammable.

R11-Highly flammable.

R36- Irritating to eyes.

R38-irritating to skin.

R41-Risk of serious damage to eyes.

R50-Very toxic to aquatic organisms.

R67-Vapors may cause drowsiness and dizziness.

Detergent/Cleaner labeling (89/542/EEC):

(0.2<5%) Nonionic surfactants and (<5%) Perfume.

Issued by:

Genie G Bost, Regulatory Affairs Manager

Revision Information:

21/03/2006, revision conforming to 648/2004/EC