

Conforms to 1907/2006/EC - (EU) 453/2010

Issued: May 1, 2015 Supersedes: Aug. 5, 2014

STARSHINE™ GLASS & SURFACE CLEANER

IDENTIFICATION OF THE MIXTURE (PREPARATION) AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER

Product Name: StarShine Glass & Surface Cleaner Product Number: 313

1.2 RELEVENT IDENTIFIED USES OF THE MIXTURE AND USES ADVISED AGAINST

Product intended for commercial and industrial use only.

Intended Use: Water based glass & surface cleaner concentrate.

Uses Advised Against: Other than per labelled instructions.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Manufacturer:

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

1.4 EMERGENCY TELEPHONE NUMBER

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

2.1 CLASSIFICATION OF THE MIXTURE (PREPARATION)

2.1.1 This mixture has been classified according to EC 1272/2008.

CLP Classification: Flammable Liquid - Category 3

Eye Irritation - Category 2

Specific Target Organ Toxicity (Single Exposure) - Category 3

2.1.2 This preparation has been classified according to 1999/45/EC.

DPD Classification: Flammable

2.2 LABEL ELEMENTS

Signal Word: Warning

Hazard pictogram(s):





Hazard Statement(s):

H226 Flammable liquid and vapour
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness

Precautionary Statement(s):

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.
P312 Call a POISON CENTER/doctor if you feel unwell.
P301+330+331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+361+353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. .

P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+351+338+ IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

337+313 easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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2.3 OTHER HAZARDS

No other hazards are known to the supplier

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1/3.2 SUBSTANCES/MIXTURES

				DSD Classification		CLP Classification	
Ingredient	EC No.	Weight %	CAS No.		Risk		Hazard
				Symbol	Phrase(s)*	Hazard Class	Statement(s)*
1-methoxy-2-propanol	203-539-1	40 – 70	107-98-2	F(Flammable)	R10	Flam Liq 3	H226
1-inethoxy-z-propanoi	203-339-1	40 - 70	107-90-2	(i laminable)	R67	STOT SE 3	H336
				F(Flammable)	R11	Flam Liq 2	H225
isopropanol	200-661-7	10 – 30	67-63-0	Xi (Irritant)	R36	Eye Irrit 2	H319
					R67	STOT SE3	H336
				E/El)	R10	Flam Liq 3	H226
				F(Flammable)	_	Skin Irrit 2	H315
2-methoxypropanol	216-455-5	<0.3	1589-47-5	47-5 T (Toxic) Xi (Irritant)	R61	Eye Dam 1	H318
					R37/38	STOTSE 3	H335
					R41	Repr 1B	H360D

^{*}See section 16 for the full text of R phrases and Hazard Statements

4 FIRST AID MEASURES

4.1 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.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Eye Contact: Can be irritating to eyes. Skin Contact: May cause mild irritation.

Inhalation: Vapours may cause drowsiness and dizziness.

Ingestion: May cause irritation to digestive tract.

4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

5.2 SPECIAL HAZARDS ARISING FROM THE MIXTURE

Hazardous combustion products: None known

5.3 ADVICE FOR FIRE FIGHTERS

Unusual fire and explosion hazards: Materials can splatter above 100°C/212°F.

Special firefighting procedures: None known

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Refer to Section 8 for appropriate personal protective equipment.

6.2 ENVIRONMENTAL PRECAUTIONS

Keep spills and cleaning runoff out of sewers and open bodies of water.





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6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

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.

6.4 REFERENCE TO OTHER SECTIONS: Refer to Section 8 of the SDS.

HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use in well-ventilated areas. Avoid breathing vapours or spray mists. Keep away from ignition sources.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage temperature (Max. 60°C/140°F) (Min. 1°C/34°F). Keep from freezing. Keep container sealed when not in use. Keep out of reach of children.

7.3 SPECIFIC END USE(S): No information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Ingredient	Source	TWA (8hours)		STEL (Short term)		Note(s)	
Ingredient	Source	ppm	mg/m ³	ppm	mg/m ³	140(0(3)	
	ACGIH TLV	50	184	100	369		
	EU (2000/39/EC)	100	375	150	568	Skin	
	NO – Forskrift, best.nr. 704	50	180	-	-	Н	
1-methoxy-2-propanol	EH40	100	375	150	560	Sk	
(1-methoxypropanol-2)	DE (TRGS 900)	100	370	-	-	2(I), Y	
	DFG MAKs	100	370	-	-	I(2), C25	
	DK - At-Vejledning Stoffer og materialier- C.0.1	50	185	-	-	E	
La sua d'aut	0.53375.5	TWA (8hours)		STEL (Short term)		No(o(o)	
Ingredient	Source	ppm	mg/m ³	ppm	mg/m ³	Note(s)	
	ACGIH TLV	200	492	400	984		
	NO – Forskrift, best.nr. 704	100	245	-	-		
isopropanol (2-propanol)	EH40	400	999	500	1250		
	DE (TRGS 900)	200	500	-	-	2(II), Y	
	DFG MAKs	200	500	-	-	II (2)	
		TWA (8hours)	STEL (S	hort term)	T 1	
Ingredient	Source	ppm mg/m ³		ppm mg/m ³		Note(s)	
	NO – Forskrift, best.nr. 704	20	75	-	-	HR	
	DE (TRGS 900)	5	19	-	-	8(II), H, Z	
2-Methoxy-1-propanol	DFG MAKs	5	19	-	-	II (8), Skin, B	
	DK - At-Vejledning Stoffer og materialier- C.0.1	20	75	<u>-</u>	-	-	

8.2 EXPOSURE CONTROLS

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.



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Environmental exposure controls: No specific environmental exposure controls known.

Personal Protective Equipment (PPE)

Eye/Face Protection: Safety eyewear is recommended, to avoid chemical splashes and mists.

Hand Protection: Chemical resistant gloves are recommended.

Skin Protection: If major exposure is possible, wear suitable protection such as rubber boots, apron, etc.

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

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance: clear, blue liquid
Odor: slight solvent odor

Odor Threshold: N/E pH: 9.0 Freezing Point: N/E Initial boiling point/boiling range: N/E Flash Point: 35 °C **Evaporation Rate:** N/E Upper/lower flammability/explosive limits: N/E Vapor Pressure: N/E Vapor Density: N/E

Relative Density: 0.94 kg/L @ 20°C Solubility: miscible in water

Partition Coefficient (n-octanol/water): N/E
Auto Ignition temperature: N/E
Decomposition Temperature: N/E

Viscosity: <10 centipoise @ 20°C

Explosive Properties: N/A
Oxidizing properties: N/E

9.2 OTHER INFORMATION

VOC: 77% (as supplied), 2.14% (1:32)

10. STABILITY AND REACTIVITY

10.1 REACTIVITY: None known

10.2 CHEMICAL STABILITY: Stable under normal conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS: None expected10.4 CONDITIONS TO AVOID: None known

10.5 INCOMPATIBLE MATERIALS: Strong acids, bases and oxidizing agents.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS: None known

11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY: Toxicity testing has not been completed on the mixture.

Based on available data, the classification criteria are not met.

Component	CAS#	LD50 Oral- Rat (mg/kg)	LD50 Dermal - Rabbit (mg/kg)	LC ₅₀ Inhalation- Rat (mg/l)
1-methoxy-2-propanol	107-98-2	5660	> 5000	1000 / 5 hr
isopropanol	67-63-0	> 5000	> 5000	> 500 /1 hr
2-methoxypropanol	1589-47-5	5660	> 5000	not available





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SKIN CORROSION/IRRITATION:Based on available data, the classification criteria are not met.

SERIOUS EYE DAMAGE/IRRITATION: Classified as Eye Irritant - Category 2.

RESPIRATORY OR SKIN SENSITIZATION:

Based on available data, the classification criteria are not met.

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Based on available data, the classification criteria are not met.

ASPIRATION HAZARD: Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

12.1 TOXICITY: Ecological testing has not been completed on the mixture.

Component	CAS#	LC50 - 96 hr	EC50-48 hr	LC50
1-methoxy-2-propanol	107-98-2	vertebrate, 19202 mg/l	Daphnia magna, 400 mg/l	not available
isopropanol	67-63-0	vertebrate, >100 mg/l	Daphnia magna, >1000 mg/l	algae (72hr), >1000 mg/l
2-methoxypropanol	1589-47-5	vertebrate, 4998 mg/l	Daphnia magna, 19000 mg/l	not available

12.2 PERSISTANCE AND DEGRADABILITY: No data available.

Component	CAS#	Biodegradation
1-methoxy-2-propanol	107-98-2	readily biodegradable
isopropanol	67-63-0	readily biodegradable
2-methoxypropanol	1589-47-5	readily biodegradable

12.3 BIOACCUMULATIVE POTENTIAL: No data available.

Component	CAS#	Partition coefficient n- octanol/water (Log Kow)	Bioconcentration factor (BCF)
1-methoxy-2-propanol	107-98-2	not available	3.16
isopropanol	67-63-0	0.05	3
2-methoxypropanol	1589-47-5	not available	not available

12.4 MOBILITY IN SOIL: No data available.

Component	CAS#	Soil Organic Carbon- Water Partitioning Coefficient (Koc)
1-methoxy-2-propanol	107-98-2	not available
isopropanol	67-63-0	25
2-methoxypropanol	1589-47-5	not available

12.5 RESULTS OF PBT AND vPvB ASSESSMENT: No data available.

12.6 OTHER ADVERSE EFFECTS: No data available.

12.7 ADDITIONAL INORMATION: Mixture is not classified with Aquatic hazards.

13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

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

EU Waste Catalogue: 20 01 29*

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14. TRANSPORT INFORMATION

14.1 UN NUMBER: UN1993

14.2 UN PROPER SHIPPING NAME: Flammable liquids n.o.s. (1-methoxy-2-propanol and isopropanol)

14.3 TRANSPORT HAZARD CLASSES: 3

14.4 PACKING GROUP: III

14.5 ENVIRONMENTAL HAZARDS: N/A

14.6 SPECIAL PRECAUTIONS FOR USER:

Package volumes < 5 L are shipped as Limited Quantity; as permitted by hazard class and quantity limits.

IMDG

Emergency Schedules (EmS): Fire F-E, Spillage S-B

Stowage and Segregation: Category A.

Marine Pollutant: None

ADR/RID

Class: 3
Item Number: 30
Classification Code F1

14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MAPROL73/78 AND THE IBC CODE: N/A

15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE MIXTURE

EINECS STATUS: Ingredients are included in the EINECS/ELINCS/NLP inventories.

NATIONAL REGULATIONS:

648/2004 The surfactants contained in this preparation comply 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.

No additional national regulations are known to the supplier.

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

15.2 CHEMICAL SAFETY ASSESSMENT: No information available.

16: OTHER INFORMATION

REVISION INFORMATION:

May 1, 2015 - Revisions required per EC 1272/2008.

ABBREVIATIONS:

N/A - Not applicable N/E - Not Established N/L - Not Listed

DETERGENT/CLEANER LABELING (EC/648/2004):

<5% - amphoteric surfactant, perfume

FULL TEXT OF HAZARD STATEMENTS:

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.
 H335 May cause respiratory irritation.
 H360D May damage the unborn child.



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FULL TEXT OF PRECAUTIONARY STATEMENTS:

P241 Use explosion-proof equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/eye protection/face protection.

P370+378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

P403+233+235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

FULL TEXT OF RISK PHRASES:

R10 Flammable. R11 Highly flammable.

R36/37/38 Irritating to eyes, respiratory system and skin.

R41 Risk of serious damage to eyes.
R61 May cause harm to the unborn child.

R67 Vapours may cause drowsiness and dizziness.

ISSUED BY:

Chemical/R&D Department

Amano Pioneer Eclipse Corporation