



SAFETY DATA SHEET

Conforms to 1907/2006/EC - (EU) 2020/878

Issued: 07 Nov 2022

Supersedes: 26 May 2016

ECLIPSE GLASS CLEANER

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER

Product Name: Eclipse Glass Cleaner (concentrate)

Product Number: 352L5

UFI: KH6F-00VC-2106-842E

1.2 RELEVANT IDENTIFIED USES OF THE MIXTURE AND USES ADVISED AGAINST

Product intended for commercial and industrial use only.

Intended Use: Water-based glass and multi-surface cleaner concentrate

Uses Advised Against: Other than per labelled instructions.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

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

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)

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE MIXTURE

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

Classification: Skin Sensitisation - Category 1

Eye Irritation - Category 2

2.2 LABEL ELEMENTS

Signal Word: Warning

Hazard pictogram:



Contains: Methylisothiazolinone

Hazard Statements:

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Precautionary Statements:

P264 Wash hands thoroughly after handling.

P280 Wear eye protection and protective gloves.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

2.3 OTHER HAZARDS

No additional information available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1/3.2 SUBSTANCES/MIXTURES



SAFETY DATA SHEET

Conforms to 1907/2006/EC - (EU) 2020/878

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ECLIPSE GLASS CLEANER

Ingredient	EC No.	Weight %	CAS No.	REACH-No.	CLP Classification	
					Hazard Class	Hazard Statement(s)*
Alcohols, C12-14, ethoxylated sulfates, sodium salts	500-234-8	1 - <5	68891-38-3	01-2119488639-16	Skin Irrit 2 Eye Dam 1 AquaChr 3	H315 H318 H412
Alcohols, C9-11, ethoxylated	614-482-0	1 - <5	68439-46-3	Exempted polymer	AcuteTox 4 Eye Dam 1	H302 H318
1-Methoxy-2-propanol	203-539-1	1 - <5	107-98-2	01-2119457435-35	Flam Liq 3 STOT SE 3	H226 H336
3-Butoxypropan-2-ol	225-878-4	1 - <5	5131-66-8	01-2119475527-28	Eye Irrit 2 Skin Irrit 2	H319 H315
Benzenesulphonic acid, C10-13-alkyl derivs., sodium salts	270-115-0	1 - <5	68411-30-3	Ionic Mixture	AcuteTox 4 Skin Irrit 2 Eye Dam 1 AquaChr 3	H302 H315 H318 H412
2-Methylisothiazol-3(2H)-one	220-293-6	< 0.1	2682-20-4	01-2120764690-50	AcuteTox 3 AcuteTox 2 Skin Corr 1B Skin Sens 1A Eye Dam 1 AquaChr 1	H301, H311 H330 H314 H317 H318 H410

*See section 16 for the full text of (EU) Hazard Statements

Ingredient	EC No.	CAS No.	Specific Concentration Limits M-Factors
Alcohols, C12-14, ethoxylated sulfates, sodium salts	500-234-8	68891-38-3	(5 ≤ C ≤ 10) Eye Irrit 2, H319 (10 ≤ C ≤ 100) Eye Dam 1, H3318
2-Methylisothiazol-3(2H)-one	220-293-6	2682-20-4	(0.0015 ≤ C ≤ 100) Skin Sens 1A, H317 Aquatic Acute 1, H100 (M=10)

SECTION 4: FIRST AID MEASURES

4.1 DECIPTION OF FIRST AID MEASURES

- Eye Contact:** In case of eye contact, immediately rinse with clean water for 10-15 minutes. Seek medical advice if irritation persists.
- Skin Contact:** Wash with plenty of soap and water. If irritation develops, seek medical attention.
- Inhalation:** If experiencing respiratory symptoms: Allow affected person to breathe fresh air.
- Ingestion:** Rinse mouth. Do NOT induce vomiting. Give water to drink. Seek medical advice immediately and show this container or label.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

- Eye Contact:** Causes serious eye irritation. Redness
- Skin Contact:** May cause an allergic skin reaction. Redness. Itching
- Inhalation:** None expected under normal use. Contact during a long period may cause light irritation.
- Ingestion:** May cause irritation of the linings of the mouth, throat and gastrointestinal tract.

4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

In case of any doubt or when irritation occurs or persists seek medical advice. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

In case of fire: All known extinguishants can be used.

5.2 SPECIAL HAZARDS ARISING FROM THE MIXTURE

The product itself does not maintain combustion.



SAFETY DATA SHEET

Conforms to 1907/2006/EC - (EU) 2020/878

Issued: 07 Nov 2022

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ECLIPSE GLASS CLEANER

5.3 ADVICE FOR FIRE FIGHTERS

Use fire fighting measures that suit the environment. As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection. Fire-fighters should wear clothing conforming to EN469 for chemical incidents.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Material spilled on hard surface can present a serious slipping/falling hazard.

6.2 ENVIRONMENTAL PRECAUTIONS

Keep spills and cleaning runoff out of sewers and public waters.

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. Neutralize spill area. 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 - Personal precautions

Refer to Section 7 of the SDS - Precautions in handling and storage

Refer to Section 13 of the SDS - Waste disposal recommendations

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Avoid contact with eyes and skin. Wash thoroughly after handling. Use in well-ventilated areas.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

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.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Workplace Exposure Limits:

Ingredient	Source	TWA (8hours)		STEL (Short term)		Note(s)
		ppm	mg/m ³	ppm	mg/m ³	
1-Methoxy-2-propanal (CAS# 107-98-2)	ACGIH TLV	50	184	100	369	
	DE (TRGS 900)	-	-	100	370	^{2(l)} DFG, EU, Y
	DK - At-Vejledning Stoffer og materialier- C.0.1	50	185	-	-	E
	EU (2000/39/EC)	100	375	150	568	Skin
	NO - Forskrift, best.nr. 704	50	180	-	-	H *
	NL - Grenswaarde TGG	-	375	-	563	H
	EH40	100	375	150	560	Sk

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.

Environmental exposure controls: No specific environmental exposure controls known.

Personal Protective Equipment (PPE)

Eye/Face Protection: Wear eye or face protection.
Safety glasses or goggles (EN166).



SAFETY DATA SHEET

Conforms to 1907/2006/EC - (EU) 2020/878

Issued: 07 Nov 2022

Supersedes: 26 May 2016

ECLIPSE GLASS CLEANER

Hand Protection:	Chemical resistant gloves are recommended (EN 374). Protective gloves should be selected according to the application and duration of use. Workplace selection should take into consideration handling requirements, physical requirements and exposure to other substances. Long term or submersion: Use Nitrile gloves (Thickness \geq 0.31mm, Breakthrough \geq 480 mins) Short-term (\leq 30min) or splash protection: Use Nitrile gloves (Thickness \geq 0.12mm, Breakthrough \geq 30 mins)
Respiratory Protection:	Under normal use of this product, respiratory protection not necessary. 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 with multi-purpose combination filter. (E.g. - EN 14387- ABEK)
Other information:	Do not eat, drink, or smoke when using this product. Avoid contact with skin and eyes.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Colour:	Clear, blue
Odour:	Lemon
Melting point/Freezing point:	\pm -5 °C
Boiling point/Boiling range:	\pm 100 °C
Flammability:	Does not maintain combustion.
Lower and upper explosion limits:	No test data available
Flash Point:	> 100 °C
Auto-ignition temperature:	No test data available
Decomposition temperature:	No test data available
pH:	10 - 11
Kinematic viscosity:	< 10 mm ² /s
Solubility:	Water, completely soluble
Partition coefficient n-octanol/water [log Pow]:	- 0.96 (calculated value)
Vapor pressure:	\pm 23.4 hPa
Density:	\pm 1.015 g/cm ³
Relative vapor density:	No test data available
Particle characteristics:	Not applicable to liquids

9.2 OTHER INFORMATION

9.2.1 - Information with regard to physical hazard class:

Oxidising properties:	Not established
Explosive properties:	Not established

9.2.2 - Other safety characteristics:

Relative evaporation rate (butylacetate=1):	< 1
VOC:	< 30%

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY:	Stable under normal conditions.
10.2 CHEMICAL STABILITY:	Stable under normal conditions.
10.3 POSSIBILITY OF HAZARDOUS REACTIONS:	None under normal conditions.
10.4 CONDITIONS TO AVOID:	None under normal conditions.
10.5 INCOMPATIBLE MATERIALS:	None under normal conditions. Do not mix with other chemicals unless stated on the product label.
10.6 HAZARDOUS DECOMPOSITION PRODUCTS:	None under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON HAZARD CLASSES AS DEFINED BY REGULATION (EC) 1272/2008

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

ATE_{mix} (oral): > 2000 mg/kg

ATE_{mix} (dermal): > 2000 mg/kg

ATE_{mix} (inhalation): > 20 mg/l (4 hr/vapour)

Based on criteria 3.1.3 from (EC) 1272/2008, the Acute Toxicity classification criteria are not met.

Components details are given below:

Component	CAS #	LD50 Oral Rat	LD50 Dermal Rabbit	LC50 Inhalation Rat
Alcohols, C12-14, ethoxylated sulfates, sodium salts	68891-38-3	4100 mg/kg	> 2000 mg/kg	data not available
3-Butoxypropan-2-ol	5131-66-8	5660 mg/kg	> 2000 mg/kg	> 3.5 mg/l
1-Methoxy-2-propanol	107-98-2	3739 mg/kg	> 2000 mg/kg	> 26315 mg/l (4 h)
Benzenesulphonic acid, C10-13-alkyl derivs., sodium salts	68411-30-3	2000-5000 mg/kg	> 2000 mg/kg	data not available

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

SERIOUS EYE DAMAGE/IRRITATION: Classified as Eye Damage/Irritation - Category 2
Causes serious eye irritation.

RESPIRATORY OR SKIN SENSITIZATION: Classified as Skin Sensitisation - Category 1.
May cause an allergic skin reaction

GERM CELL MUTAGENICITY: Based on available data, the classification criteria are not met.

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

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

STOT-SINGLE EXPOSURE: Based on available data, the classification criteria are not met.

STOT-REPEATED EXPSURE: Based on available data, the classification criteria are not met.

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

11.2 INFORMATION ON OTHER HAZARDS

11.2.1 **Endocrine disrupting properties:** None known

11.2.2 **Other information:** No additional information available

SECTION 12: ECOLOGICAL INFORMATION

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

Based on criteria 4.1.3 of (EC) 1272/2008 this product is not dangerous to the environment. Components details are mentioned below:

Component	CAS #	LC50 fish (96 h)	EC50 Daphnia (48 h)	EC50 Algae (72 h)
Alcohols, C12-14, ethoxylated sulfates, sodium salts	68891-38-3	7.1 mg/l	7.2 mg/l	27 mg/l
Alcohols, C9-11, ethoxylated	68439-46-3	5 - 7 mg/ml	5.3 mg/l	1.4 -4.7 mg/l
3-Butoxypropan-2-ol	5131-66-8	560-1000 mg/ml	>1000 mg/l	560 mg/l
1-Methoxy-2-propanol	107-98-2	> 4600 mg/l	23300 mg/l	(IC50) > 500 mg/l
Alcohols, C9-11, ethoxylated	68439-46-3	5 - 7 mg/l	5.3 mg/l	1.4 - 4.7 mg/l
Benzenesulphonic acid, C10-13-alkyl derivs., sodium salts	68411-30-3	1.67 mg/l	> 1 - < 10 mg/l	127.9 mg/l
2-Methylisothiazol-3(2H)-one	2682-20-4	4.77 mg/l	0.934 mg/l	0.0725 mg/l

12.2 PERSISTANCE AND DEGRADABILITY:

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as 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 a detergent manufacturer.

**SAFETY DATA SHEET**

Conforms to 1907/2006/EC - (EU) 2020/878

Issued: 07 Nov 2022

Supersedes: 26 May 2016

ECLIPSE GLASS CLEANER

Component	CAS #	Biodegradation
Alcohols, C12-14, ethoxylated sulfates, sodium salts	68891-38-3	readily biodegradable
Alcohols, C9-11, ethoxylated	68439-46-3	readily biodegradable
3-butoxypropan-2-ol	5131-66-8	readily biodegradable
1-Methoxy-2-propanol	107-98-2	readily biodegradable
Benzenesulphonic acid, C10-13-alkyl derivs., sodium salts	68411-30-3	readily biodegradable

12.3 BIOACCUMULATIVE POTENTIAL:

Component	CAS #	Partition coefficient n-octanol/water (Log Pow)
Eclipse Glass Cleaner Concentrate	mixture	-0.96 (calculated)
Alcohols, C9-11, ethoxylated	68439-46-3	3.3 - 4.8
3-butoxypropan-2-ol	5131-66-8	1.2
1-Methoxy-2-propanol	107-98-2	1
Benzenesulphonic acid, C10-13-alkyl derivs., sodium salts	68411-30-3	1.4
2-Methylisothiazol-3(2H)-one	2682-20-4	-0.32

12.4 MOBILITY IN SOIL: Testing has not been completed on the mixture.**12.5 RESULTS OF PBT AND vPvB ASSESSMENT:** Not applicable

Eclipse Glass Cleaner Concentrate	This mixture does not meet the PBT criteria of REACH regulation, Annex XIII. This mixture does not meet vPvB criteria of REACH regulation, Annex XIII.
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12.6 ENDOCRINE DISRUPTING PROPERTIES: None known**12.7 OTHER ADVERSE EFFECTS:** No additional information available.**SECTION 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* - detergents containing hazardous substances

SECTION 14: TRANSPORT INFORMATION

Product is not classified as hazardous for transport regulations.

14.1 UN NUMBER: None**14.2 UN PROPER SHIPPING NAME:** None**14.3 TRANSPORT HAZARD CLASSES:** None**14.4 PACKING GROUP:** None**14.5 ENVIRONMENTAL HAZARDS:** None**14.6 SPECIAL PRECAUTIONS:** None**14.7 MARITIME TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS:** Product is not transported in bulk.**SECTION 15: REGULATORY INFORMATION****15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE MIXTURE:**

Does not contain substances or labelled product uses subject to REACH Annex XVII restriction.

See Annex XVII of Regulation (EC) 1907/2006 for Designation of the substances and Conditions of restriction.

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to EU 649/2012

Contains no substance subject to EU 2019/1021

**SAFETY DATA SHEET**

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ECLIPSE GLASS CLEANER**Detergent Regulation: 648/2004**

Labeling of contents

Component	%
anionic surfactants, non-ionic surfactants	< 5%
methylisothiazolinone	
benzisothiazolinone	
perfumes	
limonene	

15.2 CHEMICAL SAFETY ASSESSMENT:

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION**REVISION INFORMATION:**

07 Nov 2022 - Revisions per (EU) 2020/878; § 1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 13, 14, 15 & 16

ABBREVIATIONS:

ACGIH	American Conference of Governmental Industrial Hygienists
ATE	Acute Toxicity Estimate
CAS No.	Chemical Abstract Service Number
CLP	Classification Labeling Packaging Regulation (EC) 1272/2008
EC50	Median Effective Concentration.
EC No.	European Union Identification Number
IMO	International Maritime Organization
LC50	Median Lethal Concentration
LD50	Median Lethal Dose
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation, (EC) 1907/2006
SDS	Safety Data Sheet
STEL	Short-Term Exposure Limit
TWA	Time Weighted Average
UFI	Unique Formula Identifier
UN	United Nations
VOC	Volatile Organic Compound
vPvB	Very Persistent and Very Bioaccumulative

CLASSIFICATION ACCORDING TO EC 1272/2008:

Classification and procedure used to derive the classification for mixture:		
Eye Irritant 2	H319	Dilution bridging principles and expert judgement
Skin Sensitisation 1	H317	Calculation method

FULL TEXT OF HAZARD STATEMENTS:

H226	Flammable liquid and vapor.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

ISSUED BY:Chemical/R&D Department
Amano Pioneer Eclipse Corporation



SAFETY DATA SHEET

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