

**SAFETY DATA SHEET**

Conforms to 1907/2006/EC - (EU) 2015/830

Issued: May 26, 2016

ECLIPSE GLASS CLEANER**1. IDENTIFICATION OF THE MIXTURE (PREPARATION) AND OF THE COMPANY/UNDERTAKING****1.1 PRODUCT IDENTIFIER**

Product Name: Eclipse Glass Cleaner (concentrate) Product Number: 352L5

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)

2. HAZARDS IDENTIFICATION**2.1 CLASSIFICATION OF THE MIXTURE (PREPARATION)**

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

CLP Classification: Eye Damage/Irritation - Category 2

2.2 LABEL ELEMENTS

Signal Word: Warning

Hazard pictogram(s):



Hazard Statement(s):

H319 Causes serious eye irritation.

Precautionary Statement(s):

P264 Wash hands thoroughly after handling.

P280 Wear eye protection.

P305+P351+338 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 other hazards are known to the supplier

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.1/3.2 SUBSTANCES/MIXTURES**

| Ingredient | EC No. | Weight % | CAS No. | EC Index 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 Aquatic Chronic 3 | H315, H318, H412 |



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3.1/3.2 SUBSTANCES/MIXTURES (continued)

| Ingredient | EC No. | Weight % | CAS No. | EC Index No. | REACH-No. | CLP Classification | |
|---|-----------|----------|------------|--------------|------------------|--|------------------------|
| | | | | | | Hazard Class | Hazard Statement(s)* |
| Alcohols, C9-11, ethoxylated | 500-234-8 | 1-5 | 68891-38-3 | | 01-2119488639-16 | Acute Tox 4 (Oral); Eye Dam. 1; Aquatic Chronic 3 | H302, H318 |
| 1-Methoxy-2-propanol | 203-539-1 | 1-5 | 107-98-2 | 603-064-00-3 | 01-2119457435-35 | Flam Liq. 3 STOT SE 3 | H226, H336 |
| 3-butoxypropan-2-ol | 225-878-4 | 1-5 | 5131-66-8 | 603-052-00-8 | 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 | Acute Tox 4 (Oral); Skin Irrit. 2; Eye Dam. 1; Aquatic Acute 1 | H302, H315, H318, H400 |

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

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:** Not expected to require first aid measures. If breathing is difficult: Remove subject to fresh air.
- Ingestion:** Rinse mouth and drink water. DO NOT induce vomiting unless directed to do so by medical personnel. Call a physician or poison control center immediately and show bottle or label.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

- Eye Contact:** May cause severe irritation and redness.
- Skin Contact:** Not expected to present a significant skin hazard.
- Inhalation:** None expected under normal use.
- Ingestion:** May cause irritation to mouth, throat and stomach.

4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Dry chemical, water spray, foam, and carbon dioxide.

5.2 SPECIAL HAZARDS ARISING FROM THE MIXTURE

Hazardous combustion products: None

5.3 ADVICE FOR FIRE FIGHTERS

Unusual fire and explosion hazards: Materials can splatter above 100°C/212°F.
 Special firefighting procedures: No special firefighting procedures recommended.



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6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Material may present a serious slipping hazard if spilled on a hard surface.

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

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

The product itself is not tested on occupational exposure limits. If the product contains substances with occupational exposure limits, these are listed here. No listing means that the product does not contain any substances with occupational exposure limits.

| Ingredient: 1-Methoxy-2-propanol (107-98-2) | | |
|---|---------------------------------|-----------------------|
| EU | Local name | 1- Methoxypropanol-2 |
| EU | IOELV TWA (mg/m ³) | 375 mg/m ³ |
| EU | IOELV TWA (ppm) | 110 ppm |
| EU | IOELV STEL (mg/m ³) | 568 mg/m ³ |
| EU | IOELV STEL (ppm) | 150 ppm |
| EU | Notes | Skin |

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: Under normal use not required. In case of calamity: wear safety glasses or goggles (EN166).



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| | |
|-------------------------|---|
| 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. |
| Skin Protection: | If major exposure is possible, wear suitable protection such as rubber boots, apron, etc. |
| Respiratory Protection: | Not required under normal use. |
| Other information: | Do not eat, drink, or smoke when using this product. Avoid contact with skin and eyes. |

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|---------------------------|
| Appearance: | clear, blue liquid |
| Odor: | lemon |
| Odor Threshold: | No data available |
| pH: | 10-11 |
| Melting Point/Freezing Point: | ± -5 °C |
| Initial boiling point/boiling range: | ± 100 °C |
| Flash Point: | > 100 °C |
| Evaporation Rate: | < 1 |
| Upper/lower flammability/explosive limits: | No test data available |
| Vapor Pressure: | No test data available |
| Vapor Density: | No test data available |
| Relative Density: | ± 1.015 g/cm ³ |
| Solubility: | miscible in water |
| Partition Coefficient (n-octanol/water): | -0.96 (calculated value) |
| Auto Ignition temperature: | No test data available |
| Decomposition Temperature: | No test data available |
| Viscosity: | < 10 mPa.s |
| Explosive Properties: | No test data available |
| Oxidizing properties: | No test data available |

9.2 OTHER INFORMATION

| | |
|------|--------|
| VOC: | < 30 % |
|------|--------|

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 known |
| 10.4 CONDITIONS TO AVOID: | None known |
| 10.5 INCOMPATIBLE MATERIALS: | None known |
| 10.6 HAZARDOUS DECOMPOSITION PRODUCTS: | None under normal conditions. |

11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

| | |
|-----------------|---|
| ACUTE TOXICITY: | Toxicity testing has not been completed on the mixture. Based on criteria 3.1.3 from (EC) 1272/2008, the classification criteria are not met and this product is not toxic. Toxic components are mentioned in section 3. |
|-----------------|---|



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| Component | CAS # | LD50 Oral | | LD50 Dermal | | LC50 Inhalation Rat (Dust/Mist - mg/l/4h) |
|---|------------|-----------------------|-----------------------|-------------------------|-------------------------|---|
| Alcohols, C12-14, ethoxylated sulfates, sodium salts | 68891-38-3 | 4100 mg/kg bodyweight | | > 2000 mg/kg bodyweight | | |
| 1-Methoxy-2-propanol | 107-98-2 | 3739 mg/kg bodyweight | | > 2000 mg/kg bodyweight | | > 26315 mg/m ³ |
| Benzenesulphonic acid, C10-13-alkyl derivs., sodium salts | 68411-30-3 | 2000-5000 mg/kg, rat | 1080 mg/kg bodyweight | > 2000 mg/kg, rat | > 2000 mg/kg bodyweight | |

| | |
|---|---|
| SKIN CORROSION/IRRITATION: | Based on available data, the classification criteria are not met. |
| SERIOUS EYE DAMAGE/IRRITATION: | Causes serious eye irritation. |
| RESPIRATORY OR SKIN SENSITIZATION: | Based on available data, the classification criteria are not met. |
| 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. |

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 that are dangerous to the environment are mentioned in section 3.

| Component | CAS # | LC50 fish 1 | EC50 other aquatic organisms 1 | EC50 other aquatic organisms 2 |
|--|------------|-------------|---------------------------------|----------------------------------|
| Alcohols, C12-14, ethoxylated sulfates, sodium salts | 68891-38-3 | 7.1 mg/l | 7.2 mg/l EC50 waterflea (48h) | 27 mg/l IC50 algae (72h) mg/l |
| 1-Methoxy-2-propanol | 107-98-2 | > 4600 mg/l | 23300 mg/l EC50 waterflea (48h) | > 500 mg/l IC50 algae (72h) mg/l |
| Alcohols, C9-11, ethoxylated | 68439-46-3 | 5-7 mg/l | 5.3 mg/l | ErC50 (algae) 1.4-4.7 mg/l |

| Component | CAS # | LC50 fish 1 | EC50 Daphnia 1 | EC50 other aquatic organisms 1 | EC50 other aquatic organisms 2 | ErC50 (other aquatic plants) | NOEC (chronic) | NOEC chronic fish |
|---|------------|-----------------|----------------|--------------------------------|-----------------------------------|------------------------------|-----------------|-------------------|
| Benzenesulphonic acid, C10-13-alkyl derivs., sodium salts | 68411-30-3 | > 1 (≤ 10) mg/l | > 1 (≤ 10) | 2.9 mg/l EC50 waterflea (48 h) | 127.9 mg/l IC50 algae (72 h) mg/l | > 10 (≤ 100) mg/l | > 1 (≤ 10) mg/l | > 0.1 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.

| Component | CAS # | Biodegradation |
|---|------------|-----------------------|
| 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 |



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12.3 BIOACCUMULATIVE POTENTIAL:

| Mixture | Partition coefficient n-octanol/water (Log Pow) |
|-----------------------------------|---|
| Eclipse Glass Cleaner Concentrate | -0.96 (calculated value) |

| Component | Partition coefficient n-octanol/water (Log Pow) | Bioaccumulative Potential |
|--|---|---------------------------|
| 3-butoxypropan-2-ol (5131-66-8) | | Bioaccumulation unlikely |
| 1-Methoxy-2-propanol (107-98-2) | -0.49 | No bioaccumulation |
| Benzenesulphonic acid, C10-13-alkyl derivs., sodium salts (68411-30-3) | 2.02 | Bioaccumulation unlikely |

12.4 MOBILITY IN SOIL:

| Component | Ecology - soil |
|---------------------------------|--------------------------------------|
| 1-Methoxy-2-propanol (107-98-2) | Product adsorbs little onto the soil |

12.5 RESULTS OF PBT AND vPvB ASSESSMENT: Not applicable

12.6 OTHER ADVERSE EFFECTS: No data available.

12.7 ADDITIONAL INFORMATION: 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 30 - detergents other than those mentioned in 20 01 29

14. TRANSPORT INFORMATION

14.1 UN NUMBER: Product is not classified as hazardous for transport regulations.

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 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MAPROL73/78 AND THE IBC CODE: N/A
Not intended to be carried in bulk tankers.

15. REGULATORY INFORMATION

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

Contains no substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Detergent Regulation: Labeling of contents

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

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ECLIPSE GLASS CLEANER**15.2 CHEMICAL SAFETY ASSESSMENT:**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

16: OTHER INFORMATION**ABBREVIATIONS:**

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

FULL TEXT OF HAZARD STATEMENTS AND EUH-STATEMENTS:

- Acute Tox. 4 (Oral) - Acute toxicity (oral), Category 4
- Aquatic Acute 1 - Hazardous to the aquatic environment — Acute Hazard, Category 1
- Aquatic Chronic 3 - Hazardous to the aquatic environment — Chronic Hazard, Category 3
- Eye Dam. 1 - Serious eye damage/eye irritation, Category 1

- Eye Irrit. 2 - Serious eye damage/eye irritation, Category 2
- Flam. Liq. 3 - Flammable liquids, Category 3
- Skin Irrit. 2 - Skin corrosion/irritation, Category 2
- STOT SE 3 - Specific target organ toxicity — Single exposure, Category 3, Narcosis
- H226 - Flammable liquid and vapor
- H302 - Harmful if swallowed
- H315 - Causes skin irritation
- H318 - Causes serious eye damage
- H319 - Causes serious eye irritation
- H336 - May cause drowsiness or dizziness
- H400 - Very toxic to aquatic life
- H412 - Harmful to aquatic life with long lasting effects

Classification according to Regulation (EC) No.1272/2008 [CLP]:

| | | |
|---|------|---|
| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008: | | |
| Eye Irrit. 2 | H319 | Expert judgement, Bridging principle "Substantially similar mixtures", Bridging principle "Dilution", Classification logging number: DetNet/520 |

ISSUED BY:

Chemical/R&D Department
Amano Pioneer Eclipse Corporation