



SAFETY DATA SHEET

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

Issued: May 26, 2016

ECLIPSE TOILET BOWL CLEANER

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

1.1 PRODUCT IDENTIFIER

Product Name: Eclipse Toilet Bowl Cleaner

Product Number: 351Q12

1.2 RELEVANT IDENTIFIED USES OF THE MIXTURE AND USES ADVISED AGAINST

Product intended for commercial and industrial use only.

Intended Use: Low acid toilet bowl cleaner/sanitary descaler

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 / USA

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)

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

CLP Classification: Skin corrosion/irritation - Category 2

Serious eye damage/eye irritation - Category 1

2.2 LABEL ELEMENTS

Signal Word: Danger

Hazard pictogram(s):



Hazard Statement(s):

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary Statement(s):

P264 Wash hands thoroughly after handling

P280 Wear protective gloves, face protection, eye protection.

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

P332+P313 If skin irritation occurs: Get medical advice/attention

P305+P351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a doctor/physician.

2.3 OTHER HAZARDS

No other hazards are known to the supplier

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ECLIPSE TOILET BOWL CLEANER**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) *
formic acid...%	200-579-1	5-<10	64-18-6	607-001-00-0	01-2119491174-37	Skin irritant 2, Eye irritant 2	H315, H319
Alcohols, C9-11, ethoxylated	614-482-0	1-5	68439-46-3		Exempted, Polymer	Acute Tox. 4 (oral), Eye Dam. 1	H302, H318

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

4 FIRST AID MEASURES**4.1 DECIPTION OF FIRST AID MEASURES**

Eye Contact: Immediately wash out with water for at least 15 minutes. (If easy to do, remove contact lenses, if worn.) Seek medical attention.

Skin Contact: Immediately wash with mild soap and plenty of water for at least 15 minutes. (Remove any contaminated clothing and shoes.) If irritation occurs: seek medical attention.

Inhalation: If breathing is difficult: Remove to fresh air. Seek medical attention immediately.

Ingestion: Rinse mouth and drink water or milk (0.25 liter). DO NOT induce vomiting unless directed to do so by medical personnel. Consume something with fat (i.e. butter, coffee cream, mayo, etc.) . Call a physician or poison control center immediately and show this container or label. Never give anything by mouth to an unconscious person.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Eye Contact: Harmful in contact with eyes. May cause serious damage and redness.

Skin Contact: May cause moderate irritation and redness.

Inhalation: None under normal use. May cause irritation to the respiratory tract and to other mucous membranes.

Ingestion: May cause irritation 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.

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.



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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.

Incompatible products: Strong bases.

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: formic acid ...% (64-18-6)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, inhalation	9.5 mg/m ³
Long-term - local effects, inhalation	9.5 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	9.5 mg/m ³
Acute - local effects, inhalation	9.5 mg/m ³
Long-term - systemic effects, inhalation	3 mg/m ³
Long-term - local effects, inhalation	3 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	2 mg/l
PNEC aqua (marine water)	0.2 mg/l
PNEC aqua (intermittent, freshwater)	1 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	13.4 mg/kg dwt
PNEC sediment (marine water)	1.34 mg/kg dwt
PNEC (Soil)	
PNEC soil	1.5 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	7.2 mg/l



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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).

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. 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.

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:	red liquid
Odor:	floral
Odor Threshold:	No data available
pH:	2.1-2.5
Melting Point/Freezing Point:	± -7 °C
Initial boiling point/boiling range:	± 100 °C
Flash Point:	> 100 °C
Evaporation Rate:	No test data available
Flammability (solid, gas)	Not applicable to liquids
Upper/lower flammability/explosive limits:	No test data available
Vapor Pressure:	23.2 hPa
Vapor Density:	No test data available
Relative Density:	± 1.03 g/cm ³
Solubility:	miscible in water
Partition Coefficient (n-octanol/water):	-0.9 (calculated value)
Auto Ignition temperature:	No test data available
Decomposition Temperature:	No test data available
Viscosity:	200 - 500 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. Product may react strongly with bases (release of heat)

10.2 CHEMICAL STABILITY: Stable under normal conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS: None under normal conditions. Product may react strongly with bases (release of heat)



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- 10.4 CONDITIONS TO AVOID:** None under normal use.
- 10.5 INCOMPATIBLE MATERIALS:** Bases
- 10.6 HAZARDOUS DECOMPOSITION PRODUCTS:** None known under normal conditions.

11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY:

Toxicity testing has not been completed on the mixture.

Additional information:

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.

Component	CAS #	LD50 Oral- (mg/kg) bodyweight	LC50 Inhalation- Rat (Dust/Mist - mg/l/4h)
formic acid...%	64-18-6	730 mg/kg	7400 mg/m ³

SKIN CORROSION/IRRITATION:

Causes skin irritation.

SERIOUS EYE DAMAGE/IRRITATION:

Causes serious eye damage.

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
formic acid...%	64-18-6	46 mg/l	EC50 waterflea (48h)	26.9 mg/l
Alcohols, C9-11, ethoxylated	68439-46-3	5-7 mg/l	EC50 Daphnia 1 - 5.3 mg/l	ErC50 (algae) 1.4-4.7 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.

12.3 BIOACCUMULATIVE POTENTIAL: No data available.

Mixture	Partition coefficient n-octanol/water (Log Pow)
Eclipse Toilet Bowl Cleaner	-0.9 (calculated value)
Component	Partition coefficient n-octanol/water (Log Pow)
formic acid...% (64-18-6)	-0.54

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

EU Waste Catalogue: 20 01 29* - detergents containing dangerous substances

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 REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Detergent Regulation: Labelling of contents

Component	%
non-ionic surfactants	< 5%
perfumes	

15.2 CHEMICAL SAFETY ASSESSMENT:

No chemical safety assessment has been carried out.

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. 3 (Inhalation:vapor) - Acute toxicity (inhalation:vapor) Category 3

Acute Tox. 4 (Oral) - Acute toxicity (oral), Category 4

Eye Dam. 1 - Serious eye damage/eye irritation, Category 1

Flam. Liq. 3 - Flammable liquids, Category 3

Skin Corr. 1A - Skin corrosion/irritation, Category 1A

Skin Irrit. 2 - Skin corrosion/irritation, Category 2

H315 - Causes skin irritation

H318 - Causes serious eye damage

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H319 - Causes serious eye irritation

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:

Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method

ISSUED BY:

Chemical/R&D Department

Amano Pioneer Eclipse Corporation