



## SAFETY DATA SHEET

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

Issued: 07 Nov 2022

Supersedes: 04 Feb 2021

### ECLIPSE™ TOILET BOWL CLEANER

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

##### 1.1 PRODUCT IDENTIFIER

Product Name: Eclipse Toilet Bowl Cleaner  
UFI: 7NEC-V0NC-S109-RRAW

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)

#### SECTION 2: HAZARDS IDENTIFICATION

##### 2.1 CLASSIFICATION OF THE MIXTURE

This mixture has been classified according to EC 1272/2008.  
Classification: Skin Irritation - Category 2  
Eye Damage - Category 1

##### 2.2 LABEL ELEMENTS

Signal Word: Danger

Hazard pictogram:



Contains: Formic acid, C9-11 Pareth-6

Hazard Statements:

H315 Causes skin irritation.  
H318 Causes serious eye damage.

Precautionary Statements:

P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves and 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+P338 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.

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

##### 3.1/3.2 SUBSTANCES/MIXTURES

**SAFETY DATA SHEET**

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

Issued: 07 Nov 2022

Supersedes: 04 Feb 2021

**ECLIPSE™ TOILET BOWL CLEANER**

Ingredient	EC No.	Weight %	CAS No.	REACH-No.	CLP Classification	
					Hazard Class	Hazard Statement(s)*
Formic acid	200-579-1	5 - < 10	64-18-6	01-2119491174-37	Skin Corr 1A	H314
Alcohols, C9-11, ethoxylated	614-482-0	1 - < 5	68439-46-3	Exempted, Polymer	AcuteTox 4 Eye Dam 1	H302 H318

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

Ingredient	EC No.	CAS No.	Specific Concentration Limits
Formic Acid	200-579-1	64-18-6	(2 ≤C< 10) Eye Irrit 2, H319 (2 ≤C< 10) Skin Irrit 2, H315 (10 ≤C< 90) Skin Corr 1B, H314 (90 ≤C< 100) Skin Corr 1A, H314

**SECTION 4: FIRST AID MEASURES****4.1 DESCRIPTION OF FIRST AID MEASURES**

- Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
- Skin Contact:** Wash skin with mild soap and water. Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.
- Inhalation:** If experiencing respiratory symptoms: Allow affected person to breathe fresh air. If you feel unwell, seek medical advice.
- Ingestion:** Rinse mouth. Do NOT induce vomiting. Seek medical advice immediately and show this container or label.

**4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED**

This mixture is not expected to present a significant hazard under anticipated conditions of normal use.

- Eye Contact:** Causes serious eye damage. Redness.
- Skin Contact:** May cause moderate irritation and redness.
- Inhalation:** None expected under normal use. May cause irritation to the respiratory tract and to other mucous membranes.
- 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.

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



## SAFETY DATA SHEET

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

Issued: 07 Nov 2022

Supersedes: 04 Feb 2021

### ECLIPSE™ TOILET BOWL CLEANER

#### 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.

Incompatible products: Strong bases.

#### 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 <sup>3</sup>	ppm	mg/m <sup>3</sup>	
Formic Acid (CAS# 64-18-6)	EU (2006/15/EC)	5	9	-	-	-
	NL - Grenswaarde TGG	-	-	-	5	-
	EH40	5	9.6	-	-	-

#### 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 protection. (EN166).

Hand Protection: Wear chemical resistant gloves. (EN374).

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)

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.



## SAFETY DATA SHEET

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

Issued: 07 Nov 2022

Supersedes: 04 Feb 2021

### ECLIPSE™ TOILET BOWL CLEANER

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

##### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Viscous liquid
Colour:	Red
Odour:	Pine
Melting point/Freezing point:	± -7 °C
Boiling point/Boiling range:	± 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:	2.1 - 2.5
Kinematic viscosity:	200 - 500 mm <sup>2</sup> /s
Solubility:	Water, completely soluble
Partition coefficient n-octanol/water [log Pow]:	-0.9 (calculated value)
Vapor pressure:	± 23.2 hPa
Density:	± 1.03 g/cm <sup>3</sup>
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:	8.20%

#### SECTION 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)
10.4 CONDITIONS TO AVOID:	None under normal conditions..
10.5 INCOMPATIBLE MATERIALS:	None under normal conditions. Bases. Chlorine-based bleaching agents. Do not mix with other chemicals unless stated on the product label.
10.6 HAZARDOUS DECOMPOSITION PRODUCTS:	None known 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 <sub>mix</sub> (oral):	> 2000 mg/kg
ATE <sub>mix</sub> (dermal):	> 2000 mg/kg
ATE <sub>mix</sub> (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:



# SAFETY DATA SHEET

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

Issued: 07 Nov 2022

Supersedes: 04 Feb 2021

## ECLIPSE™ TOILET BOWL CLEANER

Component	CAS #	LD50 Oral Rat	LD50 Dermal Rabbit	LC50 Inhalation Rat
Formic Acid	64-18-6	730 mg/kg	data not available	7400 mg/l (4 h)

- SKIN CORROSION/IRRITATION:** Classified as Skin Corrosion/ Skin Irritation - Category 2. Causes skin irritation.
- SERIOUS EYE DAMAGE/IRRITATION:** Classified as Eye Damage/ Eye Irritation - Category 1. 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.

### 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. Classified as Hazardous to the aquatic environment, Chronic Hazard - Category 2 Toxic to aquatic life with long lasting effects.

Component	CAS #	LC50 fish (96 h)	EC50 Daphnia (48 h)	EC50 Algae (72 h)
Formic Acid	64-18-6	130 - 1720 mg/l	365 - 540 mg/l	1240 mg/l
Alcohols, C9-11, ethoxylated	68439-46-3	5 - 7 mg/ml	5.3 mg/l	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.

Component	CAS #	Biodegradability
Formic Acid	64-18-6	Readily biodegradable
Alcohols, C9-11, ethoxylated	68439-46-3	Readily biodegradable

### 12.3 BIOACCUMULATIVE POTENTIAL:

Product / Component	CAS #	Partition coefficient n-octanol/water (Log Pow)
Eclipse Toilet Bowl Cleaner	mixture	-0.9 (calculated value)
Formic Acid	64-18-6	-2.3 - -1.9
Alcohols, C9-11, ethoxylated	68439-46-3	3.3 - 4.8

- 12.4 MOBILITY IN SOIL:** Testing has not been completed on the mixture.

### 12.5 RESULTS OF PBT AND vPvB ASSESSMENT:

Eclipse Toilet Bowl Cleaner	This mixture does not meet the PBT criteria of REACH regulation, annex XIII This mixture does not meet the vPvB criteria of REACH regulation, annex XIII
-----------------------------	---



## SAFETY DATA SHEET

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

Issued: 07 Nov 2022

Supersedes: 04 Feb 2021

### ECLIPSE™ TOILET BOWL CLEANER

- 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 dangerous 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.

##### Detergent Regulation: 648/2004

Labeling of contents

Component	%
non-ionic surfactants	< 5%
perfumes	

##### 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, 5, 8, 9, 11, 12, 14 & 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



# SAFETY DATA SHEET

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

Issued: 07 Nov 2022

Supersedes: 04 Feb 2021

## ECLIPSE™ TOILET BOWL CLEANER

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

### FULL TEXT OF HAZARD STATEMENTS:

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.

### FULL TEXT OF PRECAUTIONARY STATEMENTS:

P102	Keep out of reach of children.
EUH210	Safety data sheet available on request.

### ISSUED BY:

Chemical/R&D Department  
Amano Pioneer Eclipse Corporation

Neither this data sheet nor any statement contained herein grants or extends any license, expressed or implied, in connection with patents issued or pending which may be the property of the manufacturer or others. The information in this data sheet has been assembled by the manufacturer based on its own studies and the work of others. The manufacturer makes no warranties, expressed or implied, as to the accuracy, completeness or adequacy of the information contained herein. The manufacturer shall not be liable (regardless of fault) or the vendee, the vendee's employees or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnish of such information.