



SAFETY DATA SHEET

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

Issued: 21-Dec-2022

Supersedes: 3-Apr-2020

ECLIPSE™ ANTI-SLIP TREATMENT

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

1.1 PRODUCT IDENTIFIER

Product Name: Eclipse Anti-Slip Treatment
UFI: VP51-W03A-P00S-42D7

Product Number: 427

1.2 RELEVANT IDENTIFIED USES OF THE MIXTURE AND USES ADVISED AGAINST

Product intended for commercial and industrial use only.
Intended Use: Anti-slip floor treatment
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: 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.
Acute Toxicity - Oral - Category 4
Eye Damage - Category 1
Skin Irritation - Category 2

2.2 LABEL ELEMENTS

Signal Word: DANGER

Hazard pictogram(s):



Contains: Ammonium bifluoride, Oxalic acid

Hazard Statement(s):

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.

Precautionary Statement(s):

P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves and eye protection.
P301+P330+P311 IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of 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 for medical advice/ attention.
P363 Wash contaminated clothing before reuse.
P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

**SAFETY DATA SHEET**

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

Issued: 21-Dec-2022

Supersedes: 3-Apr-2020

ECLIPSE™ ANTI-SLIP TREATMENT**2.3 OTHER HAZARDS** No other hazards are known to the supplier**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1/3.2 SUBSTANCES/MIXTURES**

Ingredient	EC No.	Weight %	CAS No.	CLP Classification	
				Hazard Class	Hazard Statement(s)*
Ammonium bifluoride	215-676-4	2 - 4	1341-49-7	Acute Tox 3 Skin Corr 1B	H301 H314
Oxalic acid	1205-634-3	1 - 2	144-62-7	Acute Tox 4	H302 H312

**See section 16 for the full text of Hazard Statements*

Ingredient	EC No.	CAS No.	Specific Concentration Limits
Ammonium bifluoride	215-676-4	1341-49-7	Eye Irrit. 2; H319: 0,1 % ≤ C < 1 % Skin Corr. 1B; H314: C ≥ 1 % Skin Irrit. 2; H315: 0,1 % ≤ C < 1 %

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

Eye Contact: In case of contact, immediately flush eye with plenty of water for at least 15 minutes. (If easy to do, remove contact lenses, if worn). Seek medical attention.

Skin Contact: In case of contact, wash with plenty of water. If symptoms persist, seek medical attention.

Inhalation: If breathing is difficult. Remove subject to fresh air. If symptoms persist, seek medical attention.

Ingestion: Rinse mouth. Do not induce vomiting. Call a physician or poison control center.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Eye Contact: Causes serious eye damage.

Skin Contact: Causes skin irritation.

Inhalation: May cause irritation to nose, throat and respiratory tract.

Ingestion: Harmful if swallowed. May cause nausea or irritation if ingested.

4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES**5.1 EXTINGUISHING MEDIA**

In case of fire: use dry chemical, water spray, foam, carbon dioxide.

5.2 SPECIAL HAZARDS ARISING FROM THE MIXTUREHazardous combustion products: CO, CO₂

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include but not limited to the above mentioned substances.

5.3 ADVICE FOR FIRE FIGHTERS

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. Materials can splatter above 100°C/212°F.

SECTION 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.



SAFETY DATA SHEET

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

Issued: 21-Dec-2022

Supersedes: 3-Apr-2020

ECLIPSE™ ANTI-SLIP TREATMENT

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.

SECTION 7: 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. Remove and wash contaminated clothing and footwear before re-use.

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Ingredient	Source	TWA (8hours)		STEL (Short term)		Note(s)
		ppm	mg/m ³	ppm	mg/m ³	
Oxalic acid (CAS # 144-62-7)	ACGIH TLV	-	1	-	2	
	DE (TRGS 900)	-	1 E	-	-	1(I), H, EU, 13
	DK - At-Vejledning Stoffer og materialier- C.0.1	-	1	-	-	E
	EH40	-	1	-	2	
	EU 2006/15/EC	-	1	-	2	
	NO – Forskrift, best.nr. 704	-	1	-	-	*

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/face protection.
Safety glasses or goggles (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.

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 with multi-purpose combination filter. (E.g. - EN 14387- ABEK)

Hygiene Measures: Do not eat, drink or smoke when using this product.



SAFETY DATA SHEET

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

Issued: 21-Dec-2022

Supersedes: 3-Apr-2020

ECLIPSE™ ANTI-SLIP TREATMENT

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Colour:	Clear, colourless
Odour:	No added fragrance
Melting point/Freezing point:	No test data available
Boiling point/Boiling range:	No test data available
Flammability:	Does not maintain combustion.
Lower and upper explosion limits:	No test data available
Flash Point:	> 93 °C [Method: Closed cup, ASTM D 56]
Auto-ignition temperature:	No test data available
Decomposition temperature:	No test data available
pH:	4.0 (as supplied) [Method: ASTM E 70]
Kinematic viscosity:	< 10 centipoise @ 20°C [Method: Rotational viscometer, Brookfield]
Solubility:	Water, completely soluble
Partition coefficient n-octanol/water [log Pow]:	No test data available
Vapor pressure:	No test data available
Density:	1.0 kg/L @ 20°C [Method: Pycnometer, ASTM D 1475]
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):	No test data available
VOC:	0%

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 expected under normal conditions.
10.4 CONDITIONS TO AVOID:	None known under normal conditions.
10.5 INCOMPATIBLE MATERIALS:	Oxidising agents. Do not mix with other chemicals unless stated on the product label.
10.6 HAZARDOUS DECOMPOSITION PRODUCTS:	carbon monoxide, carbon dioxide and nitrogen oxides

SECTION 11: TOXICOLOGICAL INFORMATION

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

ACUTE TOXICITY:	Toxicity testing has not been completed on the mixture.	
ATE _{mix} (oral):	2272 mg/kg	Classified as Acutely Toxic (oral) - Category 4.
ATE _{mix} (dermal):	> 2000 mg/kg	Not classified as Acutely Toxic (dermal).
ATE _{mix} (inhalation):	> 20 mg/l (4 hr/vapour)	Not classified as Acutely Toxic (inhalation).

Component	CAS #	LD50 Oral	LD50 Dermal	LC50 Inhalation (Dust/Mist)
Ammonium bifluoride	1341-49-7	130 mg/kg	data not available	data not available
Oxalic acid	144-62-7	375 mg/kg	20000 mg/kg	data not available

SKIN CORROSION/IRRITATION:	Can cause skin irritation. Classified as Skin Irritant - Category 2.
-----------------------------------	---

**SAFETY DATA SHEET**

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

Issued: 21-Dec-2022

Supersedes: 3-Apr-2020

ECLIPSE™ ANTI-SLIP TREATMENT

- SERIOUS EYE DAMAGE/IRRITATION:** Can cause serious eye damage.
Classified as Eye Damage - Category 1.
- 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:** Effects and symptoms related to this mixture, if any, are listed in Section 4.2

SECTION 12: ECOLOGICAL INFORMATION

- 12.1 TOXICITY:** Ecological testing has not been completed on the mixture.
Based on available data, this product is not classified as hazardous to the environment.
Component details are given below:

Component	CAS #	LC50	EC50	LC50
		freshwater fish	freshwater invertebrates	freshwater algae
Ammonium bifluoride	1341-49-7	421.4 mg/L (4 days)	26 mg/L (4 days)	2.7 g/L (18 days)
Oxalic acid	144-62-7	160 mg/L (48 hr)	162.2 mg/L (48 hr)	19.14 mg/L (72 hr)

- 12.2 PERSISTANCE AND DEGRADABILITY:** Testing has not been completed on the mixture.

Component	CAS #	Biodegradation
Ammonium bifluoride	1341-49-7	inorganic
Oxalic acid	144-62-7	readily biodegradable

- 12.3 BIOACCUMULATIVE POTENTIAL:** Testing has not been completed on the mixture.

Component	CAS #	Partition coefficient n-octanol/water (Log Kow)	Bioconcentration factor (BCF)
Ammonium bifluoride	1341-49-7	data not available	data not available
Oxalic acid	144-62-7	-1.7	data not available

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

Component	CAS #	Soil Organic Carbon- Water Partitioning Coefficient (Koc)
Ammonium bifluoride	1341-49-7	data not available
Oxalic acid	144-62-7	data not available

- 12.5 RESULTS OF PBT AND vPvB ASSESSMENT:** Not applicable
- 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: 16 03 05* - Organic wastes containing hazardous substances



SAFETY DATA SHEET

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

Issued: 21-Dec-2022

Supersedes: 3-Apr-2020

ECLIPSE™ ANTI-SLIP TREATMENT

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 $\geq 0,1$ % / SCL

Contains no REACH Annex XIV substances

Contains no substance subject to EU 649/2012

Contains no substance subject to EU 2019/1021

- 15.2 CHEMICAL SAFETY ASSESSMENT:** No information available.

SECTION 16: OTHER INFORMATION

REVISION INFORMATION:

21-Dec-2022 - Revisions per (EU) 2020/878; § 1, 2, 3, 8, 9, 10, 11, 12, 14, 15 & 16

ABBREVIATIONS:

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:		
Acute Toxicity (oral) - Category 4	H302	Calculation method, bridging principle
Eye Damage - Category 1	H318	Calculation method
Skin Irritation - Category 1	H315	Calculation method

FULL TEXT OF HAZARD STATEMENTS:

H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.



SAFETY DATA SHEET

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

Issued: 21-Dec-2022

Supersedes: 3-Apr-2020

ECLIPSE™ ANTI-SLIP TREATMENT

FULL TEXT OF PRECAUTIONARY STATEMENTS:

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.