



SAFETY DATA SHEET

Conforms to WHS Code of Practice

Issued: May 8, 2019

ECLIPSE™ ANTI-SLIP TREATMENT

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

1.1 PRODUCT IDENTIFIER

Product Name: Anti-Slip Treatment

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 as hazardous according to Safe Work Australia criteria.

Acute Toxicity - Oral - Category 4

Eye Damage - Category 1

Skin Irritation - Category 2

2.2 LABEL ELEMENTS

Signal Word: DANGER

Hazard pictogram(s):



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.

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.

2.3 OTHER HAZARDS

No other hazards are known to the supplier

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ECLIPSE™ ANTI-SLIP TREATMENT**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1/3.2 SUBSTANCES/MIXTURES**

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

*See section 16 for the full text of Hazard Statements

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 MIXTURE

Hazardous 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.

HAZCHEM Code: 2X 2 - Fine water spray
X - Liquid tight chemical protective clothing and breathing apparatus. Contain.

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.

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.



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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	ACGIH TLV	-	1	-	2	
	AU Exposure Standard	-	1	-	2	

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: Safety eyewear is recommended, to avoid chemical splashes and mists. Safety glasses or goggles should comply with AS/NZS 1337 and be selected and used in accordance with AS/NZS 1336.

Hand Protection: Chemical resistant gloves are recommended. Hand protection should comply with AS/NZS 2161. 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. Protective footwear and Protective clothing should be comply with AS/NZS 2210 & AS/NZS 4503.

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. Respiratory protection should comply with AS/NZS 1716 and be selected in accordance with AS/ANZ 1715.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	clear liquid	
Odor:	none	
Odor Threshold:	No test data available	
pH:	4.0	[Method: ASTM E 70]

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Freezing Point:	No test data available	
Initial boiling point/boiling range:	No test data available	
Flash Point:	> 93°C	[Method: Closed cup, ASTM D 56]
Evaporation Rate:	No test data available	
Flammability (solid, gas)	Not applicable to liquids	
Upper/lower flammability/explosive limits:	No test data available	
Vapor Pressure:	No test data available	
Vapor Density:	No test data available	
Relative Density:	1.0 kg/L @ 20°C	[Method: Pycnometer, ASTM D 1475]
Solubility:	miscible in water	
Partition Coefficient (n-octanol/water):	No test data available	
Auto Ignition temperature:	No test data available	
Decomposition Temperature:	No test data available	
Viscosity:	<10 centipoise @ 20°C	[Method: Rotational viscometer, Brookfield]
Explosive Properties:	None	
Oxidizing properties:	None	

9.2 OTHER INFORMATION**SECTION 10: STABILITY AND REACTIVITY**

10.1 REACTIVITY:	None known
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:	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 TOXICOLOGICAL EFFECTS**

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

Component	CAS #	LD50 Oral-Rat (mg/kg)	LD50 Dermal - Rabbit (mg/kg)	LC ₅₀ Inhalation-Rat (mg/l)
Ammonium bifluoride	1341-49-7	130	data not available	data not available
Oxalic acid	144-62-7	375	20000	data not available

SKIN CORROSION/IRRITATION:	Can cause skin irritation.
SERIOUS EYE DAMAGE/IRRITATION:	Can cause 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 EXPOSURE:	Based on available data, the classification criteria are not met.
ASPIRATION HAZARD:	Based on available data, the classification criteria are not met.



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11.2 POTENTIAL ADVERSE HEALTH EFFECTS

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.

Component	CAS #	LC50 -freshwater fish	EC50 - freshwater invertebrates	LC50 - 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 PERSISTENCE 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 OTHER ADVERSE EFFECTS: None known

12.6 ADDITIONAL INFORMATION: Classification criteria, for environmental hazards, are not met.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Disposal of this material should be in accordance with local, regional and national regulations. During disposal activities, refer to Section 8 for relevant exposure controls and PPE requirements.

SECTION 14: TRANSPORT INFORMATION

This mixture is not classified as a dangerous good in accordance with ADG 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 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MAPROL73/78 AND THE IBC CODE: N/A



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SECTION 15: REGULATORY INFORMATION

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

AICS STATUS: Ingredients are listed on AICS inventory or are exempt.

POISON SCHEDULE:
(SUSMP)

Ingredient	%	Schedule
bifluorides	> 3	7
oxalic acid	≤ 2	6

SECTION 16: OTHER INFORMATION

REVISION INFORMATION:

May 8, 2019 - Issued in accordance WHS regulations.

ABBREVIATIONS:

N/A - Not applicable

N/E - Not Established

N/L - Not Listed

AICS - Australian Inventory of Chemical Substance

SUSMP - Standard for the Uniform Scheduling of Medicines and Poisons

FULL TEXT OF HAZARD STATEMENTS:

H301 Toxic if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

FULL TEXT OF PRECAUTIONARY STATEMENTS:

Safety data sheet available on request.

ISSUED BY:

Chemical/R&D Department

Amano Pioneer Eclipse Corporation