



SAFETY DATA SHEET

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

Issued: April 26, 2018

DIAMOND SHINE™

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

1.1 PRODUCT IDENTIFIER

Product Name: Diamond Shine Ultra High Speed Floor Coating

Product Number: 104L5

1.2 RELEVANT IDENTIFIED USES OF THE MIXTURE AND USES ADVISED AGAINST

Product intended for commercial and industrial use only.

Intended Use: Floor finish

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)

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE MIXTURE

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

Not classified as hazardous.

2.2 LABEL ELEMENTS

Signal Word: None

Hazard pictogram(s): None

Hazard Statement(s): Contains Benzisothiazolinone. May produce an allergic reaction.

Precautionary Statement(s): None

2.3 OTHER HAZARDS

None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1/3.2 SUBSTANCES/MIXTURES

Ingredient	EC No.	Weight %	CAS No.	REACH-No.	CLP Classification	
					Hazard Class	Hazard Statement(s)*
Tributoxyethylphosphate	201-122-9	1 - <5	78-51-3	01-2119485835-23	Aquatic Chronic 3	H412
Trimethyl pentanyl diisobutyrate	229-934-9	1 - <5	6846-50-0	01-2119451093-47	Aquatic Chronic 3	H412

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

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

Eye Contact: Rinse with plenty of water. If irritation develops and persists, seek medical attention.

Skin Contact: Wash with plenty of water. If irritation develops and persists, seek medical attention.

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

Ingestion: If ingested, do not induce vomiting. Seek medical attention.



SAFETY DATA SHEET

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

Issued: April 26, 2018

DIAMOND SHINE™

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

This mixture is not expected to produce significant adverse health effects when recommended use instructions are followed.

Eye Contact: May cause slight irritation.

Skin Contact: None expected under normal use.

Inhalation: None expected under normal use.

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.

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

The product itself does not maintain combustion.

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

Material spilled on hard surface can present a serious slipping/falling hazard.

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.

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

Storage temperature (Min. 1°C - Max. 60°C). 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

Components do not have established work exposure limits.



SAFETY DATA SHEET

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

Issued: April 26, 2018

DIAMOND SHINE™

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 (EN166).

Hand Protection: This product is not classified as dangerous for the skin and therefore no protection gloves are necessary when this product is used. In case of prolonged use or sensitive skin, where irritation is possible, it would be recommended to use 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.

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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	white liquid
Odor:	slight odor characteristic of raw material, no added fragrance
Odor Threshold:	No test data available
pH:	9 - 10
Freezing Point:	± 0 °C
Initial boiling point/boiling range:	± 100 °C
Flash Point:	> 90 °C
Evaporation Rate:	< 1 (butyl acetate = 1)
Flammability (solid, gas)	Not applicable to liquids
Upper/lower flammability/explosive limits:	No test data available
Vapor Pressure:	23.4 hPa
Vapor Density:	No test data available
Relative Density:	1.03 kg/L @ 20°C
Solubility:	miscible in water
Partition Coefficient (n-octanol/water):	-0.79 (calculated value)
Auto Ignition temperature:	No test data available
Decomposition Temperature:	No test data available
Viscosity:	< 10mPa.s (dynamic)
Explosive Properties:	None
Oxidizing properties:	None

9.2 OTHER INFORMATION 8.49%

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 known
10.4 CONDITIONS TO AVOID:	None known
10.5 INCOMPATIBLE MATERIALS:	Do not mix with other chemicals unless stated on the product label.

**SAFETY DATA SHEET**

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

Issued: April 26, 2018

DIAMOND SHINE™**10.6 HAZARDOUS DECOMPOSITION PRODUCTS:** None known**SECTION 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.

Component	CAS #	LD50 Oral	LD50 Dermal	LC50 Inhalation Rat (Dust/Mist - mg/l/4h)
Tributoxyethylphosphate	78-51-3	3000 mg/kg bodyweight	data not available	data not available
Trimethyl pentanyl diisobutyrate	6486-50-0	> 2000 mg/kg	> 2000 mg/kg	> 0.12 mg/l (6 h)

SKIN CORROSION/IRRITATION: Based on available data, the classification criteria are not met.

SERIOUS EYE DAMAGE/IRRITATION: Based on available data, the classification criteria are not met.

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 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.

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 below.

Component	CAS #	LC50 fish 1	EC50 other aquatic organisms	EC50 algae
Tributoxyethylphosphate	78-51-3	24 mg/l	75 mg/l - Daphnia	data not available
Trimethyl pentanyl diisobutyrate	6846-50-0	≥ 6 mg/l	≥ 1.46 mg/l - Daphnia	> 7.49 mg/l (72 h)

12.2 PERSISTANCE AND DEGRADABILITY:

Component	CAS #	Biodegradability
Tributoxyethylphosphate	78-51-3	Readily biodegradable
Trimethyl pentanyl diisobutyrate	6846-50-0	70.73% 28 days

12.3 BIOACCUMULATIVE POTENTIAL:

Component	CAS #	Partition coefficient n-octanol/water
Diamond Shine UHS Floor Coating	mixture	-0.79 (calculated)
Tributoxyethylphosphate	78-51-3	3.75
Trimethyl pentanyl diisobutyrate	6846-50-0	4.04 - 4.91

12.4 MOBILITY IN SOIL: No information available.



SAFETY DATA SHEET

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

Issued: April 26, 2018

DIAMOND SHINE™

12.5 RESULTS OF PBT AND vPvB ASSESSMENT:

Diamond Shine UHS Floor Coating	This mixture does not meet the PBT criteria of REACH regulation, Annex XIII. This mixture does not meet vPvB criteria of REACH regulation, Annex XIII.	
Component	CAS #	PVT / vPvB
Trimethyl pentanyl diisobutyrate	6846-50-0	This substance does not meet the PBT criteria of REACH regulation, Annex XIII. This substance does not meet the vPvB criteria of REACH regulation, Annex XIII.

12.6 OTHER ADVERSE EFFECTS: None known

12.7 ADDITIONAL INFORMATION: 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 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 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MAPROL73/78 AND THE IBC CODE: N/A

SECTION 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

15.2 CHEMICAL SAFETY ASSESSMENT: No information available.

SECTION 16: OTHER INFORMATION

REVISION INFORMATION:

April 26, 2018 - SDS issue

ABBREVIATIONS:

N/A - Not applicable

N/E - Not Established

N/L - Not Listed

FULL TEXT OF HAZARD STATEMENTS:

H412 Harmful to aquatic life with long lasting effects.

FULL TEXT OF PRECAUTIONARY STATEMENTS:

Safety data sheet available on request.

ISSUED BY:

Chemical/R&D Department

Amano Pioneer Eclipse Corporation