



SAFETY DATA SHEET

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

Issued: 30 Nov. 2020

Supersedes: 23 June 2020

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.
Classification: Skin sensitisation - Category 1
Hazardous to the aquatic environment, Chronic Hazard - Category 2

2.2 LABEL ELEMENTS

Signal Word: Warning

Hazard pictogram:



Hazard Statement:

H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements:

P261 Avoid breathing vapours.
P273 Avoid release to the environment.
P280 Wear protective gloves.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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)*
Zinc(2+) ion tetraamine carbonate	254-099-2	1 - < 5	38714-47-5		Skin Irrit 2 Eye Irrit 2 Skin Sens 1 AquaAcute1 AquaChr3	H315 H319 H317 H400 H410



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Tributoxyethylphosphate	201-122-9	1 - < 5	78-51-3	01- 2119485835 -23	AquaChr 3	H412
Trimethyl pentanyl diisobutyrate	229-934-9	1 - < 5	6846-50-0	01- 2119451093 -47	Repr 2 AquaChr 3	H361d H412
1-Methoxy-2-propanol	203-539-1	< 0.1	107-98-2	01- 2119457435 -35	Flam Liq 3 STOT SE 3	H226 H336
1,2-Benzisothiazol-3(2H)-one	220-120-9	< 0.1	2634-33-5	01 2120761540 -60	AcuteTox 4 Skin Irrit 2 Eye Dam 1 Skin Sens 1 AqAcute1	H302 H315 H318 H317 H400
Maleic anhydride	203-571-6	< 0.1	108-31-6		AcuteTox 4 STOT RE 1 Skin Corr 1B Eye Dam 1 Resp Sens 1 Skin Sens 1A	H302 H372 H314 H318 H334 H317
Octhilinone (ISO); 2-octyl-2H-isothiazol-3-one	247-761-7	< 0.1	26530-20-1	01- 2120768921- 45	AcuteTox 3 Skin Corr 1B Skin Sens 1A AquaAcute1 AquaChr1	H301,H311,H330 H314 H317 H400 H410

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

Ingredient	EC No.	CAS No.	Specific Concentration Limits
1,2-Benzisothiazol-3(2H)-one	220-120-9	2634-33-5	(0.05 ≤ C ≤ 100) Skin Sens 1, H317
Maleic anhydride	203-571-6	108-31-6	(0.001 ≤ C ≤ 100) Skin Sens 1A, H317
Octhilinone (ISO); 2-octyl-2H-isothiazol-3-one	247-761-7	26530-20-1	(0.0015 ≤ C ≤ 100) Skin Sens 1A, H317

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

- Eye Contact:** In case of eye contact, immediately rinse with clean water for 10-15 minutes. If eye irritation persists: Get medical advice/attention.
- Skin Contact:** Wash skin with mild soap and water. If skin irritation or rash occurs: Get medical advice/attention.
- Inhalation:** If experiencing respiratory symptoms: Allow affected person to breathe fresh air.
- Ingestion:** Rinse mouth. Do NOT induce vomiting. Give water to drink. 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 produce significant adverse health effects when recommended use instructions are followed.

- Eye Contact:** May cause slight irritation.
- Skin Contact:** None expected under normal use. Contact for an extended time may cause mild irritation.
- 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. 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: use dry chemical, water spray, foam, carbon dioxide.

5.2 SPECIAL HAZARDS ARISING FROM THE MIXTURE

The product itself does not maintain combustion.



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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. 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. 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

Workplace Exposure Limits:

Ingredient	Source	TWA (8hours)		STEL (Short term)		Note(s)
		ppm	mg/m ³	ppm	mg/m ³	
1-Methoxy-2-propanal (CAS# 107-98-2)	ACGIH TLV	50	184	100	369	
	DE (TRGS 900)	-	-	100	370	^{2(l)} DFG, EU,Y
	DK - At-Vejledning Stoffer og materialier- C.0.1	50	185	-	-	E
	EU (2000/39/EC)	100	375	150	568	Skin
	NO - Forskrift, best.nr. 704	50	180	-	-	H *
	NL - Grenswaarde TGG	-	375	-	563	H
	EH40	100	375	150	560	Sk

Derived No-Effect Level (DNEL/DMEL)

Ingredient	Workers			Consumers		
	Long-term systemic effects			Long-term systemic effects		
	Oral	Dermal	Inhalation	Oral	Dermal	Inhalation
Trimethyl Pentanyl Diisobutyrate (CAS# 6846-50-0)	-	31.2 mg/kg bodyweight/d ay	110 mg/m ³	18.8 mg/kg bodyweight/d ay	18.8 mg/kg bodyweight/d ay	32.6 mg/m ³



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Predicted no-effect concentration (PNEC)

Ingredient	PNEC	
Trimethyl Pentanyl Diisobutyrate (CAS# 6846-50-0)	PNEC aqua (freshwater)	0.014 mg/l
	PNEC aqua (marine water)	0.0014 mg/l
	PNEC aqua (intermittent, freshwater)	0.14 mg/l
	PNEC sediment (freshwater)	1.15 mg/kg dwt
	PNEC sediment (marine water)	0.115 mg/kg dwt
	PNEC soil	0.926 mg/l
	PNEC sewage treatment plant	3 mg/l

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 of this product, eye protection not necessary. If there is a risk of liquid being splash Safety glasses or goggles (EN166).

Hand Protection: Chemical resistant gloves are recommended. (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: 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)

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

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DIAMOND SHINE™**9.2 OTHER INFORMATION**

VOC: 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.
- 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/6h
1-Methoxy-2-propanol	107-98-2	3739 mg/kg	> 2000 mg/kg	> 26315 mg/l/4h
1,2-Benzisothiazol-3(2H)-one	2634-33-5	1020 mg/kg	4115 mg/kg	100 mg/l/4h

- 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:** Classified as Skin sensitisation - Category 1.
May cause an allergic skin reaction
- 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.

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

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	6486-50-0	≥ 6 mg/l	≥ 1.46 mg/l - Daphnia	> 7.49 mg/l (72 h)
1-Methoxy-2-propanol	107-98-2	> 4600 mg/l	23300 mg/l - waterflea	LC50 > 500 mg/l (72 h)
1,2-Benzisothiazol-3(2H)-one	2634-33-5	2.18 mg/l	2.94 mg/l - waterflea	0.11 mg/l (72 h)

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DIAMOND SHINE™**12.2 PERSISTENCE AND DEGRADABILITY:**

Component	CAS #	Biodegradability
Tributoxyethylphosphate	78-51-3	Readily biodegradable
Trimethyl pentanyl diisobutyrate	6846-50-0	70.73% 28 days
1-Methoxy-2-propanol	107-98-2	Readily biodegradable

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
1-Methoxy-2-propanol	107-98-2	1
1,2-Benzisothiazol-3(2H)-one	2634-33-5	0.7

12.4 MOBILITY IN SOIL:

Component	CAS #	Ecology - soil
1-Methoxy-2-propanol	107-98-2	Product absorbs little onto the soil

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
Contains no substance subject to EU 649/2012
Contains no substance subject to EU 2019/1021

15.2 CHEMICAL SAFETY ASSESSMENT: No chemical safety assessment has been carried out.



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SECTION 16: OTHER INFORMATION

REVISION INFORMATION:

30 Nov. 2020 - Revisions § 3

ABBREVIATIONS:

N/A - Not applicable
N/E - Not Established
N/L - Not Listed

FULL TEXT OF HAZARD STATEMENTS:

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
H336 May cause drowsiness or dizziness.
H361d Suspected of damaging the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

FULL TEXT OF PRECAUTIONARY STATEMENTS:

EUH210 Safety data sheet available on request.
P272 Contaminated work clothing should not be allowed out of the workplace.
P321 Specific treatment (see the label).
P362+P364 Take off contaminated clothing and wash it before reused.
P391 Collect spillage.
P501 Dispose of contents/container in accordance with local, regional and national regulations.

CLASSIFICATION ACCORDING TO EC 1272/2008:

Classification and procedure used to derive the classification for mixture:		
Skin Sens 1	H317	Calculation method
Aquatic Chronic 2	H411	Calculation method

ISSUED BY:

Chemical/R&D Department
Amano Pioneer Eclipse Corporation