MATERIAL SAFETY DATA SHEET

UV Plus Tinted Polyaspartic Part A

Part A: NON-HAZARDOUS ACCORDING TO THE CRITERIA OF SAFE WORK AUSTRALIA (NOHSC)

1. IDENTIFICATION OF MATERIAL AND SUPPLIER

Identification of Material

Product Name: Tinted Polyaspartic – Part A
Product Code:
Intended Use: Clear Topcoat Sealant/Resin
Chemical Name: Polyurethane Resin, Part A

Identification of the Company

Manufacturer / Supplier: SHIMICOAT Pty Ltd, 9a Morse Road, BIBRA LAKE WA 6163
Phone: (+61) (08) 9434 3302
E-mail: info@shimi.com.au
Website: www.shimi.com.au
Emergency phone number: Poisons Information Centre
Phone (Australia 13 1126; New Zealand 03 4747000)

2. HAZARD IDENTIFICATION

Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified
Health hazards Acute Tox. 4 - H302 Skin Sens. 1 - H317
Environmental hazards Aquatic Chronic 3 - H412

GHS label elements
Hazard pictograms

Signal word: WARNING

Hazard statements

H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing vapour/ spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P501 Dispose of contents/ container in accordance with national regulations.

Contains

Propane-1,2-diol, propoxylated, Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl
1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Supplementary precautionary statements

P264 Wash contaminated skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P302+P352 IF ON SKIN: Wash with plenty of water.
P362+P364 Take off contaminated clothing and wash it before reuse.

Other hazards

This product does not contain any substances classified as PBT or vPvB.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Name	CAS Number	Concentration
Name	**CAS Number**	**Concentration**
TETRAETHYL N,N'-(METHYLENEDICYCLOHEXANE-4,1-DIYL) BIS-DL-AS PARTATE	136210-30-5	>30%
DIETHYL FUMARATE	623-91-6	1-10%
Ingredients determined to be non-hazardous	N/A	balance

4. FIRST AID MEASURES

Description of first aid measures

Eye If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

Ingestion For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once).

First aid facilities Eye wash facilities and safety shower should be available.

For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once).
Eye wash facilities and safety shower should be available.

5. FIREFIGHTING MEASURES

Extinguishing media
Dry agent, carbon dioxide or foam. Prevent contamination of drains and waterways.

Special hazards arising from the substance or mixture
Combustible. May evolve carbon oxides and hydrocarbons when heated to decomposition.

Advice for firefighters
Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

Hazchem code
None allocated.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.

Environmental precautions
Prevent product from entering drains and waterways.

Methods of cleaning up
Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal.

Reference to other sections
See Sections 8 and 13 for exposure controls and disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area, removed from incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Large storage areas should have appropriate ventilation systems. Store as a Class C1 Combustible Liquid (AS1940).

Specific end uses

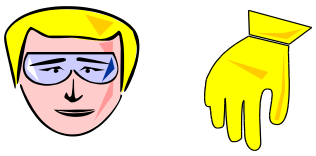
No information provided.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control Parameters

Exposure standards

No exposure standards have been entered for this product.



Biological limits

No biological limit values have been entered for this product.

Exposure Control

Engineering controls

Avoid inhalation. Use in well-ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended.

Eye / Face	Wear splash-proof goggles.
Hands	Wear viton (R) or nitrile or PVC or rubber gloves.
Body	When using large quantities or where heavy contamination is likely, wear coveralls. In a laboratory situation, wear a laboratory coat.
Respiratory	Where an inhalation risk exists, wear a Type A (Organic vapour) respirator.

Exposure controls / Protective equipment

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance:	Liquid.
Colour:	As required by client
Odour:	Characteristic.
Flammability (solid, gas):	CLASS C1 COMBUSTIBLE.
Bulk density:	1.5 Kg/L
Solubility in water:	Insoluble
Viscosity:	2.03 cSt @ 20°C
Explosive properties:	Not considered to be explosive.
Oxidising properties:	Does not meet the criteria for classification as oxidising.

10. STABILITY AND REACTIVITY

Reactivity

Reactivity

There are no known reactivity hazards associated with this product.

Chemical stability

Stability

Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

Possibility of hazardous reactions

Possibility of hazardous reactions

No potentially hazardous reactions known.

Conditions to avoid

Conditions to avoid

There are no known conditions that are likely to result in a hazardous situation.

Incompatible materials
Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.
Hazardous decomposition products
Hazardous decomposition products
Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects
Acute toxicity: May be harmful if swallowed, in contact with skin, and/or if inhaled.
Skin: Contact may result in irritation, redness, rash and dermatitis.
Eye: Contact may result in irritation, lacrimation, pain and redness.
Sensitisation: May cause an allergic skin reaction. This product is not classified as a respiratory sensitiser. However, when combined with the isocyanate component, there is a risk of respiratory sensitisation with asthma-like symptoms.
Mutagenicity: Not classified as a mutagen.
Carcinogenicity: Not classified as a carcinogen.
Reproductive: Not classified as a reproductive toxin.
STOT - single exposure:
Over exposure may result in respiratory irritation, nausea, dizziness, drowsiness and headache.
STOT - repeated exposure
Not classified as causing organ damage from repeated exposure.
Aspiration: Not classified as causing aspiration.

12. ECOLOGICAL INFORMATION

Toxicity: Harmful to aquatic life with long lasting effects.
Persistence and degradability: No information provided.
Bio-accumulative potential: No information provided.
Mobility in soil: No information provided.
Other adverse effects: No information provided

13. DISPOSAL CONSIDERATIONS

Waste treatment methods
Waste disposal: Mix components together (small amounts), absorb with sand, vermiculite or similar and dispose of to an approved landfill site. Ensure protective equipment is worn when mixing. Do not seal containers/tins until reaction is complete. Contact the manufacturer/supplier for additional information (if required). Prevent contamination of drains and waterways as environmental damage may result.
Legislation: Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID). 14.1.
UN number Not applicable.
UN proper shipping name Not applicable.
Transport hazard class(es) No transport warning sign required.
Packing group Not applicable.
Environmental hazards
Environmentally hazardous substance No.
Marine pollutant No.
Special precautions for user Not applicable.
Transport in bulk according to Annex II of MARPOL and the IBC Code
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.
Environmental hazards: No information provided.
Special precautions for user
Hazchem code: Not Allocated.

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
UN Number	None allocated	None allocated	None allocated
Proper Shipping Name	None allocated	None allocated	None allocated
Transport hazard class	None allocated	None allocated	None allocated
Packing Group	None allocated	None allocated	None allocated

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Health and Safety at Work etc. Act 1974 (as amended). The Chemicals (Hazard Information and Packaging for Supply)
Regulations 2009 (SI 2009 No. 716). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment
Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.

EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the
Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Commission Regulation
(EU) No 453/2010 of 20 May 2010. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of
16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Dangerous
Preparations Directive 1999/45/EC. Dangerous Substances Directive 67/548/EEC. 15.2.

Chemical safety assessment

No chemical safety assessment has been carried out.

16. FURTHER INFORMATION

Training advice

Read and follow manufacturer's recommendations. Only trained personnel should use this material.
Please contact SHIMICOAT for further details.
To the best of our knowledge, this MSDS summarizes the health and safety hazards, which may be posed by the product. However, SHIMICOAT makes no representation with regard to the completeness or accuracy of the information or of any recommendations contained in this data sheet, and it accepts no responsibility for loss or damages whatsoever resulting from the use of, or reliance upon, the information and any recommendations herein.

REFERENCES

Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals, February 2016

- Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)] and subsequent amendments
- Australian Code for the Transportation of Dangerous Goods by Road and Rail (ADG Code), Edition 7.3, August 2014
- Standard for the Uniform Scheduling of Drugs and Poisons No. 23, June 2008

Reason for issue:

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.
If you are an employer, it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.

Product Name: UV PLUSTinted Polyaspartic Part A / Resin
Issued: 03 Aug 2024
Revision: 3

MATERIAL SAFETY DATA SHEET

UV PLUS Tinted Polyaspartic Part B

Part A: NON-HAZARDOUS ACCORDING TO THE CRITERIA OF SAFE WORK AUSTRALIA (NOHSC)

1. IDENTIFICATION OF MATERIAL AND SUPPLIER

Identification of Material

Product Name: Tinted Polyaspartic – Part B
Product Code:
Intended Use: Clear Topcoat Sealant/Resin
Chemical Name: Polyurethane Resin, Part B

Identification of the Company

Manufacturer / Supplier: SHIMICOAT Pty Ltd
9a Morse Road
BIBRA LAKE WA
6163
Phone: (+61) (08) 9434 3302
E-mail: info@shimi.com.au
Website: www.shimi.com.au
Emergency phone number: Poisons Information Centre.
Phone (Australia 13 1126; New Zealand 03 4747000).

2. HAZARD IDENTIFICATION

Classification of the substance or mixture

Classification (EC 1272/2008)
Physical hazards Not Classified
Health hazards Acute Tox. 4 - H332 Skin Sens. 1 - H317 STOT SE 3 - H335
Environmental hazards Not Classified

GHS label elements
Hazard pictograms

Signal word: **WARNING**

Hazard statements

H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

Precautionary statements

P261	Avoid breathing vapour/ spray.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTRE/doctor if you feel unwell.
P501	Dispose of contents/ container in accordance with national regulations.
Contains	Hexamethylene diisocyanate, oligomers

Supplementary precautionary statements

P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P333+P313	If skin irritation or rash occurs: Get medical advice/ attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

Other hazards

This product does not contain any substances classified as PBT or vPvB.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredient	CAS Number	EC Number	Content
HEXANE 1,6-DIISOCYANATE HOMOPOLYMER	28182-81-2	500-060-2	>60%
DIPROPYLENE GLYCOL DIMETHYL ETHER, MIXTURE OF ISOMERS	111109-77-4	601-045-4	10 to 30%
HEXAMETHYLENE DIISOCYANATE (HMDI)	822-06-0	212-485-8	<0.3%

4. FIRST AID MEASURES

Description of first aid measures

Eye If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

Ingestion For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once).

First aid facilities Eye wash facilities and safety shower should be available.
For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once).
Eye wash facilities and safety shower should be available.

5. FIREFIGHTING MEASURES

Extinguishing media
Dry agent, carbon dioxide or foam. Prevent contamination of drains and waterways.

Special hazards arising from the substance or mixture
Combustible. May evolve carbon oxides and hydrocarbons when heated to decomposition.

Advice for firefighters
Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

Hazchem code: None allocated.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions
No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Avoid contact with skin and eyes.

Environmental precautions Environmental precautions
Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

Methods and material for containment and cleaning up.
Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Provide adequate ventilation. Approach the spillage from upwind. Small Spillages: If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container.

Large Spillages: If leakage cannot be stopped, evacuate area. Flush spilled material into an effluent treatment plant, or proceed as follows. Contain and absorb spillage with sand, earth or other non-combustible material. Place waste in labelled, sealed containers. Clean contaminated objects and areas thoroughly, observing environmental regulations. The contaminated absorbent may pose the same hazard as the spilled material. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Reference to other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Usage precautions

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

Conditions for safe storage, including any incompatibilities

Storage precautions

Store in accordance with local regulations. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Bund storage facilities to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent. Storage class Toxic storage.

Specific end use(s)

Specific end use(s)

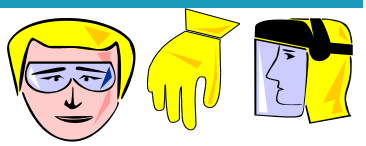
The identified uses for this product are detailed in Section 1.2.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters

Exposure controls

Protective equipment



Ingredient	Reference	TWA		STEL	
		ppm	mg/m³	ppm	mg/m³
Isocyanates, all (as-NCO)	SWA (AUS)	--	0.02	--	0.07

Appropriate engineering controls

Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimise exposure.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. Unless the assessment indicates a higher degree of protection is required,

the following protection should be worn: Tight-fitting safety glasses. Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

Other skin and body protection
Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

Hygiene measures
Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product.

Respiratory protection
Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14387. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.

Environmental exposure controls
Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Clear Water Colourless Liquid
Odour	Characteristic odour.
pH	Not applicable.
Melting point	<-20°C/<-4°F
Initial boiling point and range	>220°C/>428°F @ 1.33 hPa
Flash point	137°C / 278.6°F Method: Pensky-Martens closed cup.
Evaporation rate	Not available.
Flammability (solid, gas) Not available.	
Upper/lower flammability or explosive limits	
	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Bulk density	1.00 Kg/L
Solubility(ies)	Soluble in the following materials: Ketones. Esters. Aromatic solvents.
Partition coefficient	Not applicable.
Auto-ignition temperature	460°C/860°F
Decomposition Temperature	Not available.
Viscosity	1200 mPa s @ 25°C/77°F
Explosive properties	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.

10. STABILITY AND REACTIVITY

Reactivity There are no known reactivity hazards associated with this product.
Chemical stability Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
Possibility of hazardous reactions No potentially hazardous reactions known.
Conditions to avoid There are no known conditions that are likely to result in a hazardous situation.

Incompatible materials
Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.
Hazardous decomposition products
Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Ingredient	Oral Toxicity (LD50)	Dermal Toxicity (LD50)	Inhalation Toxicity (LC50)
HEXANE 1,6-DIISOCYANATE HOMOPOLYMER	--	--	18,500 mg/m³/1 hour
HEXAMETHYLENE DIISOCYANATE (HMDI)	350 mg/kg (mouse)	570 uL/kg (rabbit)	30 mg/kg

Acute toxicity – oral
Notes (oral LD_{50}) Based on available data the classification criteria are not met.
Acute toxicity – dermal Notes (dermal LD_{50}) Based on available data the classification criteria are not met.
Acute toxicity - inhalation Notes (inhalation LC_{50}) Based on available data the classification criteria are not met.
Skin corrosion/irritation Animal data 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 sensitization Based on available data the classification criteria are not met.
Skin sensitisation Based on available data the classification criteria are not met.
Germ cell mutagenicity Genotoxicity Based on available data the classification criteria are not met.
in vitro

Carcinogenicity Based on available data the classification criteria are not met.

IARC carcinogenicity None of the ingredients are listed or exempt.
Reproductive toxicity – fertility Based on available data the classification criteria are not met.
Reproductive toxicity - development Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure
STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure
STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazar Based on available data the classification criteria are not me

General information
The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation Prolonged inhalation of high concentrations may damage respiratory system.

Ingestion May cause sensitisation or allergic reactions in sensitive individuals. May cause discomfort if swallowed. Stomach pain. Nausea, vomiting.

Skin contact May cause skin sensitisation or allergic reactions in sensitive individuals. Prolonged contact may cause dryness of the skin.
Eye contact May cause temporary eye irritation.
Route of entry Ingestion Inhalation Skin and/or eye contact
Target organs No specific target organs known.
Medical considerations Skin disorders and allergies.

Toxicological information on ingredients.

Hexamethylene diisocyanate, oligomers

Acute toxicity – inhalation
ATE inhalation (gases ppm) 4,500.0
ATE inhalation (vapours mg/l) 11.0
ATE inhalation (dusts/mists mg/l) 1.5

hexamethylene-di-isocyanate

Acute toxicity – inhalation
ATE inhalation (gases ppm) 700.0
ATE inhalation (vapours mg/l) 3.0
ATE inhalation (dusts/mists mg/l) 0.5

12. ECOLOGICAL INFORMATION

Ecotoxicity Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.
Toxicity
Toxicity Based on available data the classification criteria are not met.
Persistence and degradability
Persistence and degradability
The degradability of the product is not known. 12.3. Bioaccumulative potential Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not applicable. 12.4. Mobility in soil Mobility No data available. 12.5. Results of PBT and vPvB assessment 12.6. Other adverse effects Other adverse effects None known.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods
General information
The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.
Disposal methods
Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

14. TRANSPORT INFORMATION

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID). 14.1.
UN number Not applicable.
UN proper shipping name Not applicable.
Transport hazard class(es) No transport warning sign required.
Packing group Not applicable.

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
UN Number	None allocated	None allocated	None allocated
Proper Shipping Name	None allocated	None allocated	None allocated
Transport hazard class	None allocated	None allocated	None allocated
Packing Group	None allocated	None allocated	None allocated

Environmental hazards

Environmentally hazardous substance No.
Marine pollutant No.
Special precautions for user Not applicable.
Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Health and Safety at Work etc. Act 1974 (as amended). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.

EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Commission Regulation (EU) No 453/2010 of 20 May 2010. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Dangerous Preparations Directive 1999/45/EC. Dangerous Substances Directive 67/548/EEC. 15.2.

Chemical safety assessment No chemical safety assessment has been carried out.

16. FURTHER INFORMATION

Classification procedures according to Regulation (EC) 1272/2008 Acute Tox. 4 - H302: Skin Sens. 1 - H317: : Calculation method. Aquatic Chronic 3 - H412: : Calculation method.

Training advice Read and follow manufacturer's recommendations. Only trained personnel should use this material. Please contact SHIMICOAT for further details.

To the best of our knowledge, this MSDS summarizes the health and safety hazards, which may be posed by the product. However, SHIMICOAT makes no representation with regard to the completeness or accuracy of the information or of any recommendations contained in this data sheet, and it accepts no responsibility for loss or damages whatsoever resulting from the use of, or reliance upon, the information and any recommendations herein.

REFERENCES

Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals, February 2016

- Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)] and subsequent amendments
- Australian Code for the Transportation of Dangerous Goods by Road and Rail (ADG Code), Edition 7.3, August 2014
- Standard for the Uniform Scheduling of Drugs and Poisons No. 23, June 2008

Reason for issue:
This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer, it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.
Product Name: UV PLUS Tinted Polyaspartic Part B / Curing Agent / Hardener
Issued: 03 Aug 2024
Revision: 3

Hazchem Code:
Emergency action code of numbers and letters that provide information to emergency services especially fire fighters
IARC: International Agency for Research on Cancer
IOELV: Indicative Occupational Exposure Limit Value
LC50: Lethal Concentration, 50 percent
LD50: Lethal Dose, 50 percent
NICNAS: National Industrial Notification & Assessment Scheme
NIOSH: National Institute for Occupational Safety & Health
NOAEL: No Observed Adverse Effect Level
NOEC: No Observed Effect Concentration
NOS: Not otherwise specified
NTP: National Toxicology Program (USA)
OEL: Occupational Exposure Limit
OSHA: Occupational Safety & Health Administration
PBT: Persistent Bioaccumulative Toxic chemical
PMCC: Pensky Martens Closed Cup
PNEC: Predicted No Effect Concentration
R-Phrase: Risk Phrase
STEL: Short Term Exposure Limit
STOT-SE: Specific Target Organ Toxicity (Single Exposure)
STOT-RE: Specific Target Organ Toxicity (Repeated Exposure)
SUSMP: Standard for the Uniform Scheduling of Medicines & Poisons
TWA: Time Weighted Average
UN Number: United Nations Number
vPvB: Very Persistent and Very Bioaccumulative
WEEL: Workplace Environmental Exposure Level
WEL-TWA: Workplace Exposure Limit, Time Weighted Average

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