

Safety Data Sheet

According to the Global Harmonized System

SDS : **Windscreen Repair Resin**

Issuing date 22/04/2015

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Version 4

Section 1: Company & Product Identification.

Product identifier

Product name **Windscreen Repair Resin**
Part Numbers **UV2PK – UV2ML – UV5ML – UV5PK – UV20ML – UV20PK – UV50ML**

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses **Automotive Adhesives**

Details of the supplier of the safety data sheet

AUSTRALIAN IMPORTER

BTB Auto Glass & Body Shop Tools
1b Wood Street
Bendigo
Victoria
3550
Australia
TEL: +61(0)3 5443 1755
Email: sales@btbtools.com

MANUFACTURER

Esprit Windscreen Systems LLP
Unit 44 Winpenny Road
Parkhouse Industrial Estate East
Newcastle under Lyme
Staffordshire
ST5 7RH
United Kingdom
TEL: +44 (0)1782 565811

24 HR EMERGENCY TELEPHONE NUMBER — 13 11 26 — Poisons Information Line (Within Australia)

Section 2: Hazards Identification

GHS Classification of the substance or mixture

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 1
Skin Sensitization	Category 1
Specific target organ toxicity - single exposure	Category 3

Physical hazards None **Target Organ Effects** Respiratory System, EYES, Skin.

Classification according to EU directives 67/548/EEC or 1999/45/EC

This substance / preparation is classified as dangerous in accordance with directive(s) 67/548/EEC with amendments and/or 1999/45/EC with amendments.

Symbols Xi irritant
Classification Xi R36/37/38 – R43
Labelling. Contains 2-Hydroxyethyl Methacrylate

Label elements



Signal word **Warning**

Hazard statements

- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H318 - Causes serious eye damage
- H335 - May cause respiratory irritation

Precautionary Statements

- P264 - Wash face, hands and any exposed skin after handling.
- P280 - Wear eye protection/ face protection
- P332 + P313 – If skin irritation occurs; get medical advice / attention
- P362 – Take off contaminated clothing and wash before reuse
- 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 POISON CENTRE or doctor / physician.
- P272 – Contaminated work clothing should not be allowed out of the workplace
- P363 – Wash contaminated clothing before reuse.
- P280 – Wear protective gloves / protective clothing / eye protection / face protection.
- P302 + P352 – if ON SKIN; wash with plenty of soap and water.
- P333 + P313 – If skin irritation / rash occurs; get medical advice / attention.
- P321 – Specific treatment (See supplemental first aid instructions on this label)
- P261 – Avoid breathing fumes / gas / vapors / mist / spray.
- P271 – Use only outdoors or in a well ventilated area.
- P304+P340 – IF INHALED, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P403+P233 – Store in a well ventilated place. Keep the container tightly closed.
- P405 – Store locked up.
- P273 – Avoid release into the environment.
- P501 - Dispose of contents/ container to an approved waste disposal plant.
- P391 – Collect Spillage.

2.3 Other information

General Hazards

None known

Section 3: Composition / Information on Ingredients

3.1 Substances

Hazardous components

The ingredients listed in this section have been determined to be hazardous and above threshold limits

Hazardous components

Chemical Name	EC-No	CAS-No	Weight percent	Classification (67/548)	GHS Classification
Benzyl Methacrylate	219-674-4	2495-37-6	25-49	Xi;R36/37/38	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)
2-Hydroxyethyl methacrylate	212-782-2	868-77-9	15-24	Xi;R36/38 R43	Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) Skin Sens.1 (H317)
Isobornyl Acrylate	227-561-6	5888-33-5	15-24	Xi;R36/37/38 N;R51-53	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)
octyl acrylate	219-696-4	2499-59-4	5-14	Xi;R36/37/38	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)
decyl acrylate	218-462-9	2156-96-9	5-14	Xi;R36/37/38 N;R51-53	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)
Acrylic Acid	201-177-9	79-10-7	1-4	R10 Xn;R20/21/22 C;R35 N;R50	Flam. Liq. 3 (H226) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Aquatic Acute 1 (H400)
Gama-Glycidoxypropyltrimethoxysilane	219-784-2	2530-83-8	1-4	Xi;R41	Eye Dam. 1 (H318)

Remaining ingredients are not considered hazardous in accordance with the Globally Harmonized System (GHS)

For the full text of the R-phrases mentioned in this Section, see Section 16

Section 4: First Aid Measures

4.1 Description of first aid measures

General advice

IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

Eye contact

Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists

Skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes

Ingestion

Get medical attention

Inhalation

Move to fresh air If symptoms persist, call a doctor

Protection of first-aiders

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves

Most important symptoms and effects, both acute and delayed

Main symptoms

None

4.3 Indication of any immediate medical attention and special treatment needed

Notes to doctors

Treat symptomatically

Section 5: Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media

Use CO₂, dry chemical, or foam.

Extinguishing media which shall not be used for safety reasons

Do not use a solid water stream as it may scatter and spread fire

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Hazardous decomposition products due to incomplete combustion

Specific hazards arising from the chemical

Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke

5.3 Advice for firefighters

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal precautions

Ensure adequate ventilation, Wear protective gloves/clothing and eye/face protection.

Environmental precautions

Environmental precautions

Local authorities should be advised if significant spillages cannot be contained, Try to prevent the material from entering drains or water courses.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Methods for containment

Prevent further leakage or spillage if safe to do so

OTHER INFORMATION

See Section 12 for additional information

Section 7: Handling & Storage

7.1 Precautions for safe handling

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice, Ensure adequate ventilation, Protect from light

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

Keep container tightly closed in a dry and well-ventilated place Protect from light Store at room temperature in the original container

Specific end uses

Exposure scenario

No information available

Section 8: Exposure Control / Personal Protection

Chemical Name	European Union	The United Kingdom	Denmark	France	Finland
Acrylic acid			TWA 2 ppm TWA 5.9 mg/m ³ H*	TWA 2 ppm TWA 6 mg/m ³ STEL 10 ppm STEL 30 mg/m ³	TWA 2 ppm TWA 6 mg/m ³ STEL 15 ppm STEL 45 mg/m ³

Chemical Name	Ireland	Norway	Poland	Portugal	Switzerland
Benzyl Methacrylate					S+
2-Hydroxyethyl methacrylate		TWA 2 ppm TWA 11 mg/m ³ A+ STEL 4 ppm STEL 16.5 mg/m ³			S+
Isobornyl Acrylate					S+
octyl acrylate					S+
decyl acrylate					S+
Acrylic acid	TWA 2 ppm TWA 6 mg/m ³ STEL 6 ppm STEL 18 mg/m ³	TWA 10 ppm TWA 30 mg/m ³ STEL 20 ppm STEL 45 mg/m ³	TWA 20 mg/m ³ STEL 29.5 mg/m ³	TWA 2 ppm C(A4) P*	SS-C** TWA 10 ppm TWA 30 mg/m ³ STEL 10 ppm STEL 30 mg/m ³

Chemical Name	Germany	The Netherlands	Austria	Italy	Spain
Acrylic acid	AGW 10 ppm AGW 30 mg/m ³				TWA 2 ppm TWA 6 mg/m ³ S*

Control parameters

Exposure limits

Derived No Effect Level (DNEL)

No information available

Predicted No Effect Concentration (PNEC)

No information available

Exposure controls

Occupational exposure controls

Engineering measures

Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Hygiene measures

When using do not eat drink or smoke. Wear suitable gloves eye/face protection Wash hands before breaks and at the end of the work day. Wash hands with water as a precaution. Regular cleaning of equipment, work area and clothing is recommended. Avoid breathing vapours mist or gas.

Personal protective equipment

General Information

Use personal protective equipment in good condition.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection

Safety glasses with side-shields, If splashes are likely to occur, wear:

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Skin and body protection

Long sleeved clothing, Apron, Impervious gloves.

Hand protection

Nitrile rubber, Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Environmental exposure controls

Do not allow material to contaminate ground water system.

Section 9: Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid	Odour	characteristic
Appearance	transparent	Odour Threshold	No information available
Colour	colourless		
Property	Values	Remarks - Method	
pH		No information available	
Melting/freezing point		No information available	
Boiling point/boiling range		No information available	
Flash point	101 °C / 214 °F		
Evaporation rate		No information available	
Flammability (solid, gas)		No information available	
Flammability Limits in Air		No information available	
upper flammability limit			
lower flammability limit			
Vapour pressure		No information available	
Vapour density		No information available	
Relative density		No information available	
Specific Gravity		No information available	
Water solubility		No information available	
Solubility in other solvents		No information available	
Partition coefficient: n-octanol/water		No information available	
Autoignition temperature		No information available	
Decomposition temperature		No information available	
Viscosity, dynamic			
Explosive properties		No information available	
Oxidizing properties		No information available	
Other information			
Softening point	No information available		
Molecular Weight	No information available		
VOC content (%)	No information available		
Density	No information available		
Bulk density	No information available		

Section 10: Stability & Reactivity

Reactivity

Reactivity

No dangerous reaction known under conditions of normal use

Chemical stability

Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerisation

None under normal processing

Hazardous reactions

None under normal processing

Conditions to avoid

Conditions to avoid

Heat, flames and sparks, Protect from light.

10.5 Incompatible materials

Materials to avoid

Amines, Oxygen scavengers, Strong oxidizing agents, Strong acids, Strong bases, Thiosulfates.

Hazardous decomposition products Hazardous Decomposition Products

Hazardous Decomposition Products

No decomposition if stored and applied as directed.

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity 0% of the mixture consists of ingredients of unknown toxicity

Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation	There is no data available for this product
Eye contact	There is no data available for this product
Skin contact	There is no data available for this product
Ingestion	There is no data available for this product

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
2-Hydroxyethyl methacrylate	= 5050 mg/kg (Rat)	> 3000 mg/kg (Rabbit)	
Isobornyl Acrylate	= 4890 mg/kg (Rat)	> 5 g/kg (Rabbit)	
octyl acrylate	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	
decyl acrylate	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	
Acrylic acid	= 193mg/kg (Rat) = 33500 µg/kg (Rat)	= 295 mg/kg (Rabbit) = 280 µL/kg (Rabbit)	= 5300 mg/m ³ (Rat) 2 h
Gama- Glycidoxypropyltrimethoxysilane	= 22600 µL/kg (Rat)	= 3970 µL/kg (Rabbit)	

SDS: WSR Resin

Chronic toxicity

Carcinogenic effects

Contains no ingredient listed as a carcinogen

Subchronic toxicity

Sensitisation

Target Organ Effects

Corrosivity

Neurological effects

Reproductive Toxicity

Mutagenic effects

Developmental Toxicity

Teratogenicity

Specific TOST - Single Exposure. Oral. Graphic

STOT - repeated exposure

Other adverse effects

Aspiration hazard

May cause sensitisation of susceptible persons

Respiratory system, EYES, Skin.

No information available

No information available

No information available

No information available

No information available

No information available

No information available

No information available

No information available

No information available

Section 12: Ecological Information

Toxicity

Ecotoxicity effects

Experiments with similar products indicate no serious harmful effects on aquatic organisms

Acute aquatic toxicity

Product Information

Testing for acute and chronic aquatic effects determined no environmental classification is required.

Component Information

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Benzyl Methacrylate		LD50 4.25 - 5.13 mg/L 96 h (Pimephales promelas)	
2-Hydroxyethyl methacrylate		LC50 213-242 mg/L 96 h (Pimephales promelas)	EC 50 >380 mg/L 48 h (Daphnia magna)
Isobornyl Acrylate	ErC 50 = 2.7 mg/L 96 h (Pseudokirchneriella subcapitata)	LC50 = 1.8 mg/L 96 h (Danio rerio)	EC 50 = 1.1 mg/L 48 h (Daphnia magna)
Acrylic Acid	EC50 0.17 mg/L 96 h (Pseudokirchneriella subcapitata) EC50 0.04 mg/L 72 h (Desmodesmus subspicatus)	LC50= 222 mg/L 96 h (Brachydanio rerio)	EC50 = 95 mg/L 48 h

Persistence and degradability

No information available

Bioaccumulative potential

Component Information

Chemical Name	log Pow
2-Hydroxyethyl methacrylate	0.47
Acrylic acid	0.46

Mobility in soil

No information available

Results of PBT and vPvB assessment

No information available

Other adverse effects

None

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

Section 13: Disposal Considerations

13.1 Waste treatment methods

Waste from residues / unused products

Should not be released into the environment. Dispose of in accordance with the European Directives on waste and hazardous waste.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal

OTHER INFORMATION

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used

Section 14: Transport Information

<u>ADR/RID</u>	not regulated
<u>IMDG/IMO</u>	not regulated
<u>ICAO/IATA</u>	not regulated

Section 15: Regulatory Information

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

WGK Classification

Water endangering class = 1 (self classification)

International Inventories

The components of this product are included on the following inventories or exempt from listing:

TSCA	Complies
KECL	Complies
IECSC	Complies
AICS	Not Listed
EINECS/ELINCS	Complies
DSL/NDSL	Complies
ENCS	Not Listed
PICCS	Not Listed
NZIoC	Not Listed
CSNN	Not Listed

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

KECL - Korean Existing and Evaluated Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

ENCS - Japan Existing and New Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

CSNN - Taiwan Chemical Substance Nomination & Notification

15.2 Chemical Safety Assessment

No information available

Section 16: Other Information

Full text of H-Statements referred to under sections 2 and 3

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H318 - Causes serious eye damage
H226 - Flammable liquid and vapour
H302 - Harmful if swallowed
H312 - Harmful in contact with skin
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H400 - Very toxic to aquatic life
H411 - Toxic to aquatic life with long lasting effects

Full text of R-phrases referred to under sections 2 and 3

R43 - May cause sensitisation by skin contact
R35 - Causes Severe Burns
R10 - Flammable
R36 - Irritating to eyes
R36/38 - Irritating to eyes and skin
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R36/37/38 - Irritating to eyes, respiratory system and skin
R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Revision Date 22-04-2015

Revision Note not applicable.

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

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End of Safety Data Sheet