# **U-Bond**

by

# Glassbond

# **Material Safety Data Sheet**

Safety Data Sheet according to regulation (EC) N°1907/2006, (EU)

2015/830, 1272/2008(CLP) & 453/2010

Date Revised : 18.07.2022 Revision : 02
Product : **L905 – High Performance UV Adhesive** 

# Section 1 : Identification of the Substance/Mixture and of the Company/ Undertaking

1.1 Product Identifier

Product name : U-Bond High Performance UV Adhesive – L905 Liquid REACH notes : Substances contained in this product that are not classified as hazardous have been/will be registered for

UK/EU REACH at the appropriate time.

1.2 Relevant identified uses of the mixture and uses advised against.

Identified use : PC1, Adhesives, sealants

Uses advised against : No other uses

1.3 Details of the supplier of the safety data sheet

Company identification Glassbond (NW) Ltd

West Side Industrial Estate

Jackson Street St. Helens

Merseyside WA9 3AT United Kingdom

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1.4 Emergency telephone +44(0)1744 730334

number (GMT, English spoken, Mon-Friday; 08.30-16.30)

#### **Section 2: Hazard Identification**

2.1 Classification of the mixture:

Regulation (EC) No. 1272/2008(CLP)

Aquatic Chronic 2: H411; Aquatic Acute 1: H400; Eye Dam. 1: H318; Skin Irrit. 2:

H315; Skin Sens. 1A: H317; STOT SE 3: H335

Most important adverse effects:

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. Toxic to aquatic life with long lasting effects.

2.2 Label elements (According to Regulation (EC) No. 1272/2008(CLP))







GHS05: Corrosion GHS07: Harmful

GHS09: Dangerous for the environment

Contains: 2-hydroxyethyl methacrylate, isobornyl acrylate, isobornylmethacrylate,

acrylic acid, diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

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Signal Word(s) Danger

Hazard H315: Causes skin irritation

Statement(s) H317: May cause an allergic skin reaction

H318: Causes serious eye damage H335: May cause respiratory irritation

H411: Toxic to aquatic life with long lasting effects

H400: Very toxic to aquatic life

Precautionary P302+P352: IF ON SKIN: Wash with plenty of water Statement(s) P280: Wear protective gloves/protective clothing/eye

protection/face protection.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P273: Avoid release to the environment.

P308+P313: IF exposed or concerned: get medical

advice/attention.

Contains 2-Hydroxyethyl methacrylate, isobornyl acrylate, isobornyl

methacrylate, acrylic acid, diphenyl(2,4,6- trimethylbenzoyl)

phosphine oxide

#### 2.3 Other Hazards

This product is not identified as a PBT/vPvB substance

#### Section 3: Composition/Information on Ingredients

#### 3.2 Hazardous ingredients:

Isobornyl Acrylate - REACH registered number(s): 2119957862-25-XXXX

EINECS	CAS	PBT/WEL	CLP Classification	Percent
227-561-6	5888-33-5	-	Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H315; Aquatic Acute 1: H400; Skin Sens. 1: H317; Aquatic Chronic 1: H410; Aquatic Chronic 2: H411	10-30

#### 2-Hydroxyethyl Methacrylate - REACH registered number(s): 01-2119490169-29

212-782-2	868-77-9	-	Eye Irrit. 2: H319; Skin Irrit. 2:	10-30
			H315; Skin Sens. 1: H317	10-30

# Isobornylmethacrylate – REACH registered number(s): 2119886505-27-XXXX

231-403-1	7534-94-3	-	Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335; Aquatic	5-10
			Chronic 3: H412	

# Acrylic acid – REACH registered number(s): 2119452449-31-XXXX

201-177-9	79-10-7	-	Flam. Liq. 3: H226; Acute Tox. 4:	
			H302; Acute Tox. 4: H312; Acute	
			Tox. 4: H332; Skin Corr. 1A:	1-5
			H314; Eye Dam. 1: H318; STOT	1-5
			SE 3: H335; Aquatic Acute 1:	
			H400; Aquatic Chronic 2: H411	

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Diphenyl(2,4,6-trimethylbenzoyl)phosphine Oxide – REACH registered number(s): 21119972295-29-XXXX

278-335-8	75980-60-8	-	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317	1-<3
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#### **Section 4: First Aid Measures**

4.1 Description of first aid measures

Inhalation Move the exposed person to fresh air. Get medical attention if any

discomfort continues.

Eyes Remove any contact lenses and open eyelids wide apart. Promptly wash

eyes with plenty of water while lifting the eye lids. Continue to rinse for at

least 15 minutes. Get medical attention.

Skin Remove all contaminated clothes and footwear immediately unless stuck

to skin. Wash immediately with plenty of soap and water. Get medical

attention promptly if symptoms occur after washing.

Ingestion Never give anything by mouth to an unconscious person. Rinse mouth

thoroughly with water. Give plenty of water to drink. Do not induce

vomiting. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation May cause respiratory irritation.

Eyes May cause serious eye damage.

Skin Skin irritation. Mild dermatitis, allergic skin rash.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate/special treatment 
No specific recommendations. Treat symptomatically.

#### **Section 5 : Fire-Fighting Measures**

5.1 Extinguishing media Extinguish with foam, carbon dioxide, dry powder or water

fog. Do not use water jet, as this will spread the fire.

5.2 Special hazards arising In combustion emits toxic and obnoxious fumes – carbon from the mixture monoxide, carbon dioxide and unknown hydrocarbons.

5.3 Advice for fire fighters Wear positive-pressure self-contained breathing apparatus

(SCBA) and appropriate protective clothing.

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#### Section 6: Accidental Release Measures

6.1 Personal Precautions, protective equipment and emergency procedures Wear protective clothing as described in Section 8 of this safety data sheet.

6.2 Environmental Precautions
Do not discharge into drains or watercourses or onto the ground.

6.3 Methods and material for containment and cleaning up

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as soon as possible.

6.4 Reference to other sections Refer to sections 8 and 13 of SDS.

# Section 7: Handling and Storage

7.1 Precautions for safe handling

Handling Avoid contact with skin and eyes. Do not eat, drink or smoke when

requirements using this product.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions Store in closed original container at temperatures between 5°C

and 25°C. Protect against

direct sunlight. Never return unused material to storage

receptacle.

7.3 Specific end use(s) Adhesive.

#### **Section 8 : Exposure Controls/Personal Protection**

8.1 Control parameters

2-Hydroxyethyl methacrylate (868-77-9)		
DNEL (Workers)		
Long-term – systemic effects, dermal	1.3 mg/Kg bodyweight/day	
Long-term - systemic effects, inhalation 4.9 mg/m³		
PNEC		
Water – long-term	0.482 mg/l	

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Soil - long-term	0.476 mg/Kg
Sewage treatment plant – long-term	10 mg/l
Freshwater	3.79 mg/l

Isobornyl Acrylate (5888-33-5)		
DNEL (Workers)		
Long-term – systemic effects, dermal	1.39 mg/Kg bodyweight/day	
PNEC		
Freshwater	0.001 mg/l	
Marine water	0 mg/l	
Sewage treatment plant	2 mg/l	
Sediment (Freshwater)	0.145 mg/Kg	
Sediment (Marnie water)	0.015 mg/Kg	

Isobornylmethacrylate (7534—94-3)		
DNEL (Workers)		
Long-term – systemic effects, dermal	1.04 mg/Kg bodyweight/day	
PNEC		
Freshwater	4.66 μg/l	
Marine water	0.466 μg/l	
Sewage treatment plant	2.45 mg/l	
Sediment (Freshwater)	0.604 mg/Kg	
Sediment (Marnie water)	0.06 mg/Kg	
Soil	0.118 mg/Kg	

Acrylic Acid (79-10-7)	
DNEL (Workers)	
Long-term – systemic effects, inhalation	30 mg/m <sup>3</sup>
Short-term – systemic effects, dermal	1 mg/cm <sup>2</sup>
PNEC	
Freshwater	0.003 mg/l

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Intermittent release	0.001 mg/l
Marine water	0 mg/l
Sewage treatment plant	0.9 mg/l
Sediment (Freshwater)	0.024 mg/Kg/day
Sediment (Marnie water)	0.002 mg/Kg/day

Diphenyl(2,4,6-trimethylbenzoyl)phosphine Oxide (75980-60-8)		
DNEL (Workers)		
Long-term – systemic effects, dermal	1.04 mg/Kg bodyweight/day	
Long-term – systemic effects, inhalation	3.5 mg/m <sup>3</sup>	
PNEC		
Freshwater	0.004 mg/l	
Marine water	0 mg/l	
Sewage treatment plant	>1000 mg/Kg	
Sediment (Freshwater)	0.29 mg/Kg	
Sediment (Marnie water)	0.029 mg/Kg	
Soil	0.056 mg/Kg	

# 8.2 Exposure controls

Engineering controls

Normal (mechanical) room ventilation should be adequate for small volumes. For higher volume activities, or if needed for worker comfort, local

mechanical exhaust should be provided.

Eye/face protection

Use approved safety goggles or face shield. Personal eye protection

should conform to EN

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Hand protection

It is recommended that chemical-resistant, impervious gloves are worn. Gloves should conform to EN 374. For exposure up to 4 hours, wear gloves made of the following material: Nitrile rubber. Thickness:  $\geq 0.4$  mm The selected gloves should have a breakthrough time of at least 0.5 hours. For exposure up to 8 hours, wear gloves made of the following material: Nitrile rubber. Thickness:  $\geq 0.4$  mm The selected gloves should have a breakthrough time of at least 8 hours. The breakthrough time for any glove material may be different for different glove manufacturers. 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. 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.

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Other skin and body protection

Uniforms, coveralls, or a lab coat should be worn

Hygiene measures Wash at the end of each work shift and before eating, smoking and using

the toilet. When

using do not eat, drink or smoke. Wash promptly if skin becomes contaminated. Use of good industrial hygiene practices is required.

Respiratory protection

Ensure adequate ventilation of the working area. Respiratory protection may be required if excessive airborne contamination occurs. Respiratory protection complying with an approved standard should be worn if a risk

assessment indicates inhalation of contaminants is possible. Organic

vapour filter. Type A. (EN14387)

# **Section 9 : Physical and Chemical Properties**

# 9.1 Information on basic physical and chemical properties

Appearance	Liquid	Colour	Colourless
Odour	Acrylic	Odour threshold ppm	Not Available
Ph Value	Not applicable	Relative Density	1.1 g/ml
Melting Point/freezing pt	Not applicable	Solubility in Water @ 20°C	Not available
Initial Boiling Point/Range	Not applicable	Partition Coefficient	Not available
Flashpoint °C	>100°C	(n-octanol/water)	
Evaporation rate	Not applicable	Auto ignition temperature	Not available
Flammability (solid/gas)	Not applicable	decomposition temperature °C	Not available
Upper explosive limit	Not Available	Viscosity mPa.s @ 25°C	4000 - 5000
Lower explosive limit	Not Available	Explosive Properties	Not available
Vapour pressure	Not applicable	Oxidizing Properties	Not oxidising
Vapour density (air=1)	Not applicable		

# **Section 10: Stability and Reactivity**

10.1	Reactivity	The following materials may react with the product: Strong oxidising agents. Light.
10.2	Chemical Stability	Stable under normal conditions.
10.3	Possibility of Hazardous reactions	There are no known reactivity hazards associated with this product.
10.4	Conditions to Avoid	Direct sunlight
10.5	Incompatible materials	Strong reducing agents. Strong oxidising agents.
10.6	Hazardous Decomposition Products	Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified organic compounds.

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# **Section 11: Toxicological information**

Toxicological

effects

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed

under Section 3 is provided in the following.

Skin

Sensitisation

May cause sensitisation by skin contact.

Aspiration Hazard None under normal conditions.

Inhalation May cause respiratory irritation.

Skin contact Irritating to skin.

Eye contact Causes serious eye damage.

2-Hydroxyethyl methacrylate	
LD50 oral - rat	5,000 mg/kg bodyweight
LD50 dermal – rabbit	5,000 mg/kg bodyweight
LC50 Inhalation	No information available.
Skin corrosion/irritation – animal	Erythema/eschar score: Very slight erythema - barely perceptible (1). Not irritating.
Serious eye damage/irritation	Moderately irritating.
Respiratory sensitisation	No information available.
Skin sensitisation	Guinea pig maximization test (GPMT) - Guinea pig: Sensitising.
Genotoxicity – in vitro	Conclusive data but not sufficient for classification.
Genotoxicity – in vivo	Chromosome aberration: Negative.
Carcinogenicity	No specific test data available.
Reproductive toxicity – fertility	Screening - NOAEL >=1000 mg/kg/day, Oral, Rat F1
Reproductive toxicity – development	Developmental toxicity: - NOAEL: >=1000 mg/kg/day, Oral, Rat
STOT – single exposure	No specific test data available.
STOT – repeated exposure	No specific test data available.
Aspiration hazard	Not applicable.

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Isobornyl Acrylate	
LD50 oral - rat	5,000 mg/kg bodyweight
LD50 dermal – rabbit	3,000 mg/kg bodyweight
LC50 Inhalation	No information available.
Skin corrosion/irritation – animal	Not irritating.
Serious eye damage/irritation	Not irritating.
Skin sensitisation	Local Lymph Node Assay (LLNA) - : Sensitising
Genotoxicity – in vitro	Genome mutation: Negative
Genotoxicity – in vivo	Chromosome aberration: Negative.
Carcinogenicity	No information available
Reproductive toxicity – fertility	Two-generation study - NOEC 0.092 mg/l, Inhalation, Rat P
Reproductive toxicity – development	Developmental toxicity: - NOAEL: >=500 mg/kg/day, Oral, Rat
STOT – single exposure	No information available.
STOT – repeated exposure	No information available.
Aspiration hazard	No information available.

Acrylic Acid	
LD50 oral - rat	1,405 mg/kg bodyweight
LD50 dermal – rabbit	2,000 mg/kg bodyweight
LC50 Inhalation – rat	3.6 mg/l
Skin corrosion/irritation – animal	Rabbit Highly corrosive.
Serious eye damage/irritation	Rabbit Corrosive
Skin sensitisation	Not sensitising.
Genotoxicity – in vitro	Genome mutation: Negative
Genotoxicity – in vivo	Chromosome aberration: Negative.
Carcinogenicity	NOAEL >=78 mg/kg/day, Oral, Rat
IARC carcinogenicity	IARC Group 3 Not classifiable
Reproductive toxicity – fertility	NOEC 460 mg/l, Oral, Rat P, F1
Reproductive toxicity – development	Fetotoxicity: - NOAEC: >= 0.673 mg/l, Inhalation, Rabbit
STOT – single exposure	No information available.
STOT – repeated exposure	No information available.
Aspiration hazard	No information available.

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Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	
LD50 oral – rat	5,000 mg/kg bodyweight
LD50 dermal – rat	2,000.1 mg/kg bodyweight
LC50 Inhalation – rat	No information available.
Skin corrosion/irritation - animal	Not irritating.
Serious eye damage/irritation	Not irritating.
Skin sensitisation	Local Lymph Node Assay (LLNA) - Mouse: Sensitising.
Genotoxicity – in vitro	Genome mutation: Negative
Carcinogenicity	No data available.
Reproductive toxicity – fertility	Possible risk of adverse reproductive effects.
Reproductive toxicity – development	Developmental toxicity: - NOAEL: 150 mg/kg, Oral, Rat
STOT – single exposure	No information available.
STOT – repeated exposure	NOAEL 50 mg/kg/day, Oral, Rat
Aspiration hazard	No information available.

# **Section 12: Ecological Information**

12.1 Ecotoxicity Toxic to aquatic life with long lasting effects. Very toxic to aquatic

life.

Toxicity The mixture is classified based on the available hazard information

for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in

the following.

2-Hydroxyethyl methacrylate	
Acute aquatic toxicity	
Acute toxicity - fish	LC50, 96 hours: > 100 mg/l, Oryzias latipes (Red killifish)
Acute toxicity – aquatic invertebrates	EC50, 48 hours: 380 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC <sub>50</sub> , 72 hours: 836 mg/l, Selenastrum capricornutum NOEC, 72 hours: 400 mg/l, Selenastrum capricornutum
Acute toxicity - microorganisms	EC <sub>50</sub> , 16 hours: > 3000 mg/l, Pseudomonas fluorescens
Chronic aquatic toxicity	
Chronic toxicity – aquatic invertebrates	NOEC, 21 days: 24.1 mg/l, Daphnia magna

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Isobornyl Acrylate	
Acute aquatic toxicity	
LE(C) <sub>50</sub>	$0.1 \text{ , L(E)C50} \le 1$
M factor (acute)	1
Acute toxicity – fish	LC <sub>50</sub> , 96 hours: 0.704 mg/l, Danio rerio (Zebrafish)
Acute toxicity - aquatic plants	EC50, 72 hours: 1.98 mg/l, Pseudokirchneriella subcapitata NOEC, 72 hours: 0.405 mg/l, Pseudokirchneriella subcapitata
Chronic aquatic toxicity	
M factor (chronic)	1
Chronic toxicity – aquatic invertebrates	NOEC, 21 days: 0.092 mg/l, Daphnia magna

Isobornylmethacrylate	
Acute aquatic toxicity	
Acute toxicity - fish	LC50, 96 hours: 1.79 mg/l, Danio rerio (Zebrafish)
Acute toxicity – aquatic invertebrates	EC50, 48 hours: > 2.57 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC50, 72 hours: 2.28 mg/l, Pseudokirchneriella subcapitata
Chronic aquatic toxicity	
Chronic toxicity – aquatic invertebrates	NOEC, 21 days: 0.233 mg/l, Daphnia magna

Acrylic Acid	
Acute aquatic toxicity	
LE(C) <sub>50</sub>	0.1 , L(E)C50 ≤ 1
M factor (acute)	1
Acute toxicity – fish	LC50, 96 hours: 222 mg/l, Brachydanio rerio (Zebra Fish)
Acute toxicity – aquatic invertebrates	LC <sub>50</sub> , 24 hours: 270 mg/l, Daphnia magna EC <sub>50</sub> , 48 hours: 95 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC50, 72 hours: 0.04 mg/l, Desmodesmus subspicatus EC50, 96 hours: 0.17 mg/l, Pseudokirchneriella subcapitata
Chronic aquatic toxicity	
Chronic toxicity – aquatic invertebrates	NOEC, 21 days: 19 mg/l, Daphnia magna

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Diphenyl(2,4,6-trimethylbenzoyl)phosphine Oxide	
Acute aquatic toxicity	
Acute toxicity - fish	LC50, 48 hours: 6.53 mg/l, Oryzias latipes (Red killifish)
Acute toxicity – aquatic invertebrates	EC50, 48 hours: 3.53 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC50, 72 hours: > 2.01 mg/l, Pseudokirchneriella subcapitata
Acute toxicity – microorganisms	EC50, 180 minutes: > 1000 mg/l, Activated sludge

12.2 Persistence and degradability No data available.

Ecological information on ingredients:

2-Hydroxyethyl methacrylate Water - Degradation 84%: 28 days

Isobornyl acrylate Water - Degradation 57%: 28 days

Isobornylmethacrylate Water - Degradation 70%: 28 days

Acrylic acid Water - Degradation 81%: 28 days

Diphenyl(2,4,6- Water - Degradation < 20%: 28 days

trimethylbenzoyl)phosphine oxide

12.3 Bioaccumulative potential No data available on bioaccumulation

potential.

Ecological information on ingredients:

2-Hydroxyethyl methacrylate Bioaccumulative potential BCF: 1.34 – 1.54

Acrylic acid Partition coefficient log Kow: 0.46

Diphenyl(2,4,6- Bioaccumulative potential BCF: 23 – 55,

12.4 Mobility in soil No data available.

Ecological information on ingredients:

2-Hydroxyethyl methacrylate Water - Koc: 42.7 @ 20°C

Acrylic acid 69.6 mN/m @ 20°C

12.5 Results of PBT and vPvB assessment This substance is not classified as PBT or

vPvB according to current EU criteria.

12.6 Other adverse effects None known

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# **Section 13: Disposal Consideration**

13.1 Waste treatment methods

General information Waste disposal should be in accordance with existing

Community, National and local regulations Empty containers may contain product residue; follow SDS and label warnings even after they have been emptied.

Disposal methods Dispose of waste to licensed waste disposal site in

accordance with the requirements of the

local Waste Disposal Authority.

Waste class 08 04 09\* waste adhesives and sealants containing

organic solvents or other dangerous

substances.

#### **Section 14: Transport Information**

Applies to road, sea, and air transportation to inner containers > 5 litres

14.1 UN number UN3082

14.2 UN shipping name ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, LIQUID, N.O.S. (contains Isobornyl Acrylate)

14.3 Transport hazard class(es) 9



14.4 Packing group III

14.5 Environmental hazards Environmentally hazardous: Yes

Marine pollutant: Yes



14.6 Special precautions for user Special precautions: F-A, S-F

Tunnel code: E

14.7 Transport in bulk according to Annex Not applicable

II of Marpol 73/78 and the IBC code

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### **Section 15: Regulatory Information**

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

Specific regulations

National regulations:

The Chemicals (Hazard Information and Packaging for Supply Regulations 2009 (SI 2009 No.716)

EU Legislation:

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).

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending

Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Guidance:

Workplace Exposure Limits EH40.

CHIP for everyone HSG228.

Safety Data Sheets for Substances and Preparations.

Approved Classification and Labelling Guide (Sixth edition) L131.

15.2 Chemical safety assessment:

No chemical safety assessment has been carried out.

#### **Section 16: Other Information**

\* Sections Revised 1 Supercedes date 12.08.2019

Reference made to UK/EU REACH

Other information This safety data sheet is prepared in accordance with Commission

Regulation (EU) No 453/2010

Phrases used in

H226 Flammable liquid and vapour.

s.2 and s.3

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H361f Suspected of damaging fertility.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

H400: Very toxic to aquatic life

H411: Toxic to aquatic life with long lasting effects

H412: Harmful to aquatic life with long lasting effects

H413: May cause long lasting harmful effects to aquatic life

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This information relates only to the specific material designated and is to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness and without acceptance of liability for loss or damage attributable to reliance thereon as conditions of use lie outside our control. Users should always carry tests to establish the suitability of any products for their intended applications. No statements shall be incorporated in any contract unless expressively agreed in writing or construed as recommending the use of any product in conflict of any patent. All goods are supplied subject to Glassbond Ltd's General Conditions of Sale.