

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

Page 1/7

Flowseal PC Gloss Hardener

Revision 0
Revision date 2015-06-02

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	Flowseal PC Gloss Hardener
---------------------	-----------------------------------

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

Description	<p>Restricted to professional users.</p> <p>Component of a Two Pack Polyurethane Floor Seal.</p>
--------------------	--

1.3. Details of the supplier of the safety data sheet

Company	Virtus Resins
Address	The Shippon, Faenol Pentrecelyn Ruthin LL15 2SP
Web	www.epoxyresinsuppliers.co.uk
Telephone	+44 (0)1978 790 744
Fax	
Email	info@epoxyresinsuppliers.co.uk
Email address of the competent person	info@ epoxyresinsuppliers.co.uk

1.4. Emergency telephone number

Emergency telephone number	+44 (0)1978 790 744
	9.00am to 5.00pm Mon - Fri

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification - 1999/45/EC	Xn; R42/43 Xi; R36/37/38 R52/53 Symbols: Xn: Harmful.
2.1.2. Classification - EC 1272/2008	Asp. Tox. 1: H304; Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335; STOT SE 3: H336;

2.2. Label elements

Hazard pictograms	
--------------------------	---

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Flowseal PC Gloss Hardener

Revision 0

Revision date 2015-06-02

3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
1,2,4-Trimethylbenzene	601-043-00-3	95-63-6	202-436-9		10 - 20%	R10 Xn; R20 Xi; R36/37/38 N; R51/53	
4,4'-Diphenylmethane-diisocyanate	615-005-00-9	9016-87-9			1-10%		
1,3,5-Trimethylbenzene (Mesitylene)	601-025-00-5	108-67-8	203-604-4		1-10%	R10 Xi; R37 N; R51/53	
Propylbenzene	601-024-00-X	103-65-1	203-132-9		1-10%	R10 Xn; R65 Xi; R37 N; R51/53	

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Solvent Naphtha (Petroleum), Light Arom; Low boiling point		64742-95-6	265-199-0			Asp. Tox. 1: H304; STOT SE 3: H335; STOT SE 3: H336;	
1,2,4-Trimethylbenzene	601-043-00-3	95-63-6	202-436-9			Flam. Liq. 3: H226; Acute Tox. 4: H332; Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315; Aquatic Chronic 2: H411;	
4,4'-Diphenylmethane-diisocyanate	615-005-00-9	9016-87-9					
1,3,5-Trimethylbenzene (Mesitylene)	601-025-00-5	108-67-8	203-604-4			Flam. Liq. 3: H226; STOT SE 3: H335; Aquatic Chronic 2: H411;	
Propylbenzene	601-024-00-X	103-65-1	203-132-9			Flam. Liq. 3: H226; Asp. Tox. 1: H304; STOT SE 3: H335; Aquatic Chronic 2: H411;	

Description

Two Pack Polyurethane Floor Seal.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or has stopped, administer artificial respiration. Give nothing by mouth. If unconscious place in recovery position and seek medical advice.
Eye contact	Rinse immediately with plenty of water also under eyelids for at least 20 minutes. Remove contact lenses. Immediate medical attention is required.
Skin contact	Remove affected person from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.
Ingestion	Rinse mouth thoroughly. Immediately give a couple of glasses of water or milk, provided the victim is fully conscious. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	No data is available on this product.
Eye contact	No data is available on this product.
Skin contact	No data is available on this product.
Ingestion	No data is available on this product.

4.3. Indication of any immediate medical attention and special treatment needed

Inhalation	No data is available on this product.
Eye contact	No data is available on this product.
Skin contact	No data is available on this product.
Ingestion	No data is available on this product.

SECTION 5: Firefighting measures

Flowseal PC Gloss Hardener

Revision 0
Revision date 2015-06-02

5.1. Extinguishing media

Small Fires - Foam, carbon dioxide or dry powder. DO NOT use water if avoidable. Larger Fires: Water spray, fog or mist. Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture

Burning produces noxious and toxic fumes.

5.3. Advice for firefighters

Do not get water inside container. NOTE ! Use air-supplied respirators to protect against gases/fumes. Keep run-off water out of sewers and water sources. Dike for water control. Move container from fire area if it can be done without risk. If risk of water pollution occurs, notify appropriate authorities. Keep up-wind to avoid fumes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol.

6.2. Environmental precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose contaminated material as waste according to item 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid exceeding the given occupational exposure limits (see section 8).
Provide sufficient air exchange and/or exhaust in work rooms.
Smoking, eating and drinking should be prohibited in the application area.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed.
Never add water to this product.

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Use engineering controls to reduce air contamination to permissible exposure level.
Provide eyewash station.

8.1.1. Exposure Limit Values

1,2,4-Trimethylbenzene	DIR: 2000/39	8hTWA ppm: 20
	8hTWA mg/m3: 100	STEL ppm: -
	STEL mg/m3: -	NOT: -
1,3,5-Trimethylbenzene (Mesitylene)	DIR: 2000/39	8hTWA ppm: 20
	8hTWA mg/m3: 100	STEL ppm: -
	STEL mg/m3: -	NOT: -


8.2. Exposure controls

Flowseal PC Gloss Hardener

Revision 0

Revision date 2015-06-02

8.2. Exposure controls

	
8.2.1. Appropriate engineering controls	Provide adequate general and local exhaust ventilation.
Eye / face protection	No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit. Use chemical cartridge protection with appropriate cartridge. FILTER. Gas cartridge suitable for organic substances. Wear splash-proof eye goggles to prevent any possibility of eye contact. Contact lenses should not be worn when working with the chemical.
Skin protection - Hand protection	GENERAL GUIDANCE ON HAND PROTECTION. Chemical resistant gloves required for prolonged or repeated contact. Protective gloves must be used if there is a risk of direct contact or splash. SPECIFIC RECOMMENDATIONS. Use protective gloves made of: Nitrile or Neoprene.

Further information

Other Protection	Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station and safety shower. Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene Measures	Wash at the end of each work shift and before eating, smoking and using the toilet. DO NOT SMOKE IN WORK AREA! Wash promptly if skin becomes contaminated. Change work clothing daily if contamination is reasonably probable. Promptly remove any clothing that becomes contaminated. Contaminated clothing to be placed in closed container until disposal or decontamination. Warn cleaning personnel of chemical's hazardous properties.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Brown
Odour	smell of solvent
Odour threshold	No data available
pH	No data available
Melting point	No data available
Freezing Point	No data available
Initial boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Fat Solubility	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available
Solubility	No data available

9.2. Other information

Flowseal PC Gloss Hardener

Revision 0

Revision date 2015-06-02

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	No data available
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic compounds)	No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended storage conditions.

10.2. Chemical stability

No decomposition if stored and applied as described.

10.3. Possibility of hazardous reactions

Stable under recommended storage conditions.

10.4. Conditions to avoid

Avoid contact with water. Avoid Heat, flames and other sources of ignition.

10.5. Incompatible materials

No data is available on this product.

10.6. Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	No data is available on this product.
Skin corrosion/irritation	No data is available on this product.
Serious eye damage/irritation	No data is available on this product.
Respiratory or skin sensitisation	No data is available on this product.
Germ cell mutagenicity	No data is available on this product.
Carcinogenicity	No data is available on this product.
Reproductive toxicity	No data is available on this product.

11.1.4. Toxicological Information

No data available

SECTION 12: Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

No data is available on this product.

12.3. Bioaccumulative potential

Partition coefficient

Flowseal PC Gloss Hardener No data available

12.4. Mobility in soil

No data is available on this product.

Flowseal PC Gloss Hardener

Revision 0

Revision date 2015-06-02

12.5. Results of PBT and vPvB assessment

No data is available on this product.

12.6. Other adverse effects

No data is available on this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Do not allow runoff sewer, waterway or ground.

SECTION 14: Transport information

Hazard pictograms



14.1. UN number

UN1866

14.2. UN proper shipping name

RESIN SOLUTION

14.3. Transport hazard class(es)

ADR/RID	3
Subsidiary risk	-
IMDG	3
Subsidiary risk	-
IATA	3
Subsidiary risk	-

14.4. Packing group

Packing group III

14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

ADR/RID

Hazard ID	30
Tunnel Category	(D/E)

IMDG

EmS Code F-E S-E

IATA

Packing Instruction (Cargo)	366
Maximum quantity	220 L
Packing Instruction (Passenger)	355
Maximum quantity	60 L

SECTION 15: Regulatory information

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

"COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation,

Flowseal PC Gloss Hardener

Revision 0

Revision date 2015-06-02

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

Regulations	<p>Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC".</p> <p>"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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC".</p>
	<p>R10 - Flammable. R36/37/38 - Irritating to eyes, respiratory system and skin. R40 - Limited evidence of a carcinogenic effect. R42/43 - May cause sensitisation by inhalation and skin contact. R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65 - Harmful: may cause lung damage if swallowed.</p> <p>S23 - Do not breathe gas/fumes/vapour/spray. S25 - Avoid contact with eyes. S36/37 - Wear suitable protective clothing and gloves. S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S57 - Use appropriate container to avoid environmental contamination. S60 - This material and its container must be disposed of as hazardous waste. S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.</p>

15.2. Chemical safety assessment

For advice on essential measures see sections 7 and 8 of this safety data sheet.

SECTION 16: Other information

Other information

Text of risk phrases in Section 3	<p>R10 - Flammable</p> <p>R20 - Harmful by inhalation.</p> <p>R36/37/38 - Irritating to eyes, respiratory system and skin.</p> <p>R37 - Irritating to respiratory system.</p> <p>R42/43 - May cause sensitisation by inhalation and skin contact.</p> <p>R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p>R65 - Harmful: may cause lung damage if swallowed.</p>
Text of Hazard Statements in Section 3	<p>Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.</p> <p>STOT SE 3: H335 - May cause respiratory irritation.</p> <p>STOT SE 3: H336 - May cause drowsiness or dizziness.</p> <p>Flam. Liq. 3: H226 - Flammable liquid and vapour.</p> <p>Skin Irrit. 2: H315 - Causes skin irritation.</p> <p>Eye Irrit. 2: H319 - Causes serious eye irritation.</p> <p>Acute Tox. 4: H332 - Harmful if inhaled.</p> <p>Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.</p>

General information

This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy.

Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.