

according to 1907/2006/EC, Article 31

Chemdur Silk Clear Hardener

Revision 0

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Revision date 2016-10-17

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

1.1. Product identifier		
Product name	Chemdur Silk Clear Hardener	
1.2. Relevant identified uses of	f the substance or mixture and uses advised against	
Description	Restricted to professional users.	
	Component Of A Two Pack Polyurethane Floor Coating.	
1.3. Details of the supplier of the supplication of the suppli		
Company	Virtus Resins	
Address	The Shippon, Faenol	
Address	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	info@ epoxyresinsuppliers.co.uk	
competent person		
1.4. Emergency telephone num	nber	
Emergency telephone number	+44 (0)1978 790 744	
	8.30am to 5.00pm Mon - Fri	
SECTION 2: Hazards identi	fication	
2.1. Classification of the subst	ance or mixture	
2.1.1. Classification -	Xn; R20 Xi; R37-43	
1999/45/EC	Symbols: Xn: Harmful.	
Main hazards	Harmful by inhalation. Irritating to respiratory system. May cause sensitisation by skin contact.	
2.1.2. Classification - EC 1272/2008	Skin Irrit. 2: H315; Skin Sens. 1: H317; Acute Tox. 4: H332;	
2.2. Label elements		
Hazard pictograms		

virtusresins



2.2. Label elements	
Precautionary Statement:	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
Prevention	P264 - Wash thoroughly after handling.
	P271 - Use only outdoors or in a well-ventilated area.
	P272 - Contaminated work clothing should not be allowed out of the workplace.
	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement:	P302+P352 - IF ON SKIN: Wash with plenty of water/ .
Response	P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P312 - Call a POISON CENTER/doctor/ /if you feel unwell.
	P321 - Specific treatment (see on this label).
	P332+P313 - If skin irritation occurs: Get medical advice/attention.
	P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
Precautionary Statement:	P501 - Dispose of contents/container to local and national regulations
Disposal	

SECTION 3: Composition/information on ingredients

3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. Classification N (%w/w)	I-factor.
aliphatic polyisocyanate		28182-81-2		01-2119485796-17	70 - 80% Xn; R20 Xi; R37-43	
2-methoxy-1-methylethyl acetate (1-Methoxypropylacetate)	607-195-00-7	108-65-6	203-603-9	01-2119475791-29	10 - 20% R10	
Xylene (Xylene, o-,m-,-p-or mixed isomers)	601-022-00-9	1330-20-7	215-535-7	01-2119488216-32	1 - 10% R10 Xn; R20/21 Xi; R38	
Ethylbenzene	601-023-00-4	100-41-4	202-849-4		1 - 10% F; R11 Xn; R20	
Hexamethylene-di-isocyanate	615-011-00-1	822-06-0	212-485-8	01-2119457571-37	0 - 0.5% T; R23 Xi; R36/37/38 R42/43	

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. Classification M-f	actor.
aliphatic polyisocyanate		28182-81-2		01-2119485796-17	70 - 80% Skin Sens. 1: H317; Acute Tox. 4: H332;	
Xylene (Xylene, o-,m-,-p-or mixed isomers)	601-022-00-9	1330-20-7	215-535-7	01-2119488216-32	1 - 10% Flam. Liq. 3: H226; Acute Tox. 4: H332; Acute Tox. 4: H312; Skin Irrit. 2: H315;	
Ethylbenzene	601-023-00-4	100-41-4	202-849-4		1 - 10% Flam. Liq. 2: H225; Acute Tox. 4: H332;	
Hexamethylene-di-isocyanate	615-011-00-1	822-06-0	212-485-8	01-2119457571-37	0 - 0.5% Acute Tox. 3: H331; Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315; Resp. Sens. 1: H334; Skin Sens. 1: H317;	

Further information If REACH registartion numbers do not appear the substance is either exempt from registration, does not meet the minimum volume threshold for registration, or the registration date has not yet come due. Refer to section 16 for full text of each relevant R-phrase and H-phrase.

SECTION 4: First aid measures

4.1. Description of first	t aid measures
Inhalation	Keep patient calm, remove to fresh air, seek medical attention.
Eye contact	Immediately wash affected eyes for at least 15 minutes under running water with eyelids help open, consult an eye specialist.
Skin contact	After contact with skin, wash immediately with plenty of water and soap.
Ingestion	DO NOT induce the patient to vomit, medical advice is required.
4.2. Most important sy	mptoms and effects, both acute and delayed



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4.2 Most important symptoms	and effects, both south and delayed
4.2. Most important symptoms	and effects, both acute and delayed
Inhalation	Seek medical attention if irritation or symptoms persist.
Eye contact	Seek medical attention if irritation or symptoms persist.
Skin contact	Seek medical attention if irritation or symptoms persist.
Ingestion	Seek medical attention if irritation or symptoms persist.
4.3. Indication of any immediat	e medical attention and special treatment needed
Inhalation	Seek medical attention.
Eye contact	Seek medical attention.
Skin contact	Seek medical attention.
Ingestion	Seek medical attention.
SECTION 5: Firefighting me	easures
5.1. Extinguishing media	
	Carbon dioxide (CO2). Foam.
5.2. Special hazards arising fro	om the substance or mixture
	Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen, isocyanate vapors
	and traces of hydrogen cyanide. In the event of fire and/or explosion do not breathe fumes.
5.3. Advice for firefighters	
	Special protective equipment.
	Wear self-contained breathing apparatus and chemical-protective clothing.
	Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.
SECTION 6: Accidental rele	ease measures
6.1. Personal precautions, pro	tective equipment and emergency procedures
	Ensure adequate ventilation of the working area. Eliminate all sources of ignition. Wear
	suitable protective clothing.
6.2. Environmental precaution	S
	Do not allow runoff water to enter sewers or drains. Do not let product contaminate subsoil.
6.3. Methods and material for o	containment and cleaning up
	Remove mechanically; cover the remainder with wet, absorbant material (e.g sawdust,
	chemical bindr based on calcium silicate hydrate, sand). After approx. one hour transfer
	to waste container and do not seal. (evolution of CO2 !). Keep damp in a safe ventilated
6.4. Reference to other section	area for several days. For further disposal measures see chapter 13.
0.4. Reference to other section	
	Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.
SECTION 7: Handling and s	
7.1. Precautions for safe hand	
	Ensure adequate ventilation of the working area.
7.2. Conditions for safe storage	e, including any incompatibilities
	Keep container dry and tightly closed in a cool and well ventilated place.
7.3. Specific end use(s)	
,	The identified uses for this product are detailed in Section 1.2.
SECTION 8: Exposure cont	
8.1. Control parameters	



8.1. Control parameters

Are listed on the following items according to where it is going to be used.

8.1.1. Exposure Limit Values		
2-methoxy-1-methylethyl acetate (1-Methoxypropylacetate)	WEL 8-hr limit ppm: 50	WEL 8-hr limit mg/m3: 274
	WEL 15 min limit ppm: 100	WEL 15 min limit mg/m3: 548
	WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total -
	inhalable dust:	inhalable dust:
	WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total -
	respirable dust:	respirable dust:
Ethylbenzene	WEL 8-hr limit ppm: 100	WEL 8-hr limit mg/m3: 441
	WEL 15 min limit ppm: 125	WEL 15 min limit mg/m3: 552
	WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total -
	inhalable dust:	inhalable dust:
	WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total -
	respirable dust:	respirable dust:
Hexamethylene-di-isocyanate	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3: 0.02
	WEL 15 min limit ppm:	WEL 15 min limit mg/m3:
	WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total -
	inhalable dust:	inhalable dust:
	WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total -
	respirable dust:	respirable dust:
Xylene (Xylene, o-,m-,-p-or mixed isomers)	WEL 8-hr limit ppm: 50	WEL 8-hr limit mg/m3: 220
	WEL 15 min limit ppm: 100	WEL 15 min limit mg/m3: 441
	WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total -
	inhalable dust:	inhalable dust:
	WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total -
	respirable dust:	respirable dust:

8.2. Exposure controls



8.2.1. Appropriate engineering	Ensure adequate ventilation of the working area.		
controls			
Eye / face protection	Wear eye/face protection.		
Skin protection -	Wear suitable gloves.		
Handprotection			
Skin protection - Other	Wear suitable protective clothing.		
SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and chemical properties			



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9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Yellowish
Odour	smell of solvent
Fat Solubility	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	No data available
Explosive properties	Not determined
Oxidising properties	No data available
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	Not applicable.
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
Solubility	No data available

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	No data available
compounds)	
CECTION 40. Stability and	

SECTION 10: Stability and reactivity

10.1. Reactivity

	Water.		
10.2. Chemical stability			
	No data is available on this product.		
10.3. Possibility of hazardous	reactions		
	Amines. Alcohols.		
10.4. Conditions to avoid			
	No data is available on this product.		
10.5. Incompatible materials			
	No data is available on this product.		
10.6. Hazardous decompositio	n products		
	No hazardous decomposition products if stored and handled as prescribed/indicated.		
SECTION 11: Toxicological information			
11.1. Information on toxicolog	ical effects		

Acute toxicity

No data is available on this product.



11.1. Information on toxicological effects

Skin corrosion/irritation	No data is available on this product.			
Serious eye damage/irritation	No data is available on this product.			
Respiratory or skin	No data is available on this product.			
sensitisation				
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.			

SECTION 12: Ecological information

12.2. Persistence and degradability

12.3. Bioaccumulative potential

	No data is available on this product.	
Partition coefficient	•	
	Chemdur Silk Clear Hardener No data available	2-methoxy-1-methylethyl acetate No data available
12.4. Mobility in soil		
	No data is available on this product.	
12.5. Results of PBT and vPvB	3 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 in accordance with applicable international, national and local laws,
ordinances and satutes.
For disposal within the EC, the appropriate code according to the European Waste
Catalogue (EWC) should be used.
After final product withdrawel, all residues must be removed from containers (drip-free, powder-
free or paste-free). Once the product residues adhering to the walls of the containers have been
rendered harmless, teh product and hazard labels must be invalidated. Containers must be
recycled in compliance with national legislation and environmental regulations.

Further information

Further information on waste can be obtained from the document "Guidence on t	
	Classification and Assessment of Waste, Technical guidance WM3.

SECTION 14: Transport information

Hazard pictograms



14.1. UN number



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14.1. UN number				
	UN1866			
14.2. UN proper shipping name				
	RESIN SOLUTION			
14.3. Transport hazard class(e	s)			
ADR/RID	3			
Subsidiary risk	-			
IMDG	3			
Subsidiary risk	-			
ΙΑΤΑ	3			
Subsidiary risk	-			
14.4. Packing group				
Packing group	111			
14.5. Environmental hazards				
Environmental hazards	Νο			
Marine pollutant	Νο			
ADR/RID				
Hazard ID	30			
Tunnel Category	(D/E)			
IMDG				
EmS Code	F-E S-E			
ΙΑΤΑ				
Packing Instruction (Cargo)	366			
Maximum quantity	220 L			
Packing Instruction	355			
(Passenger)				
Maximum quantity	60 L			
SECTION 15: Regulatory information				
15.1. Safety, health and enviro	nmental 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,			
	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".			
	"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".			
SECTION 16: Other information				
Other information				
Text of risk phrases in Section	R10 - Flammable			



Other information	
Text of Hazard Statements in Section 3	 R20 - Harmful by inhalation. R23 - Toxic by inhalation. R36/37/38 - Irritating to eyes, respiratory system and skin. R37 - Irritating to respiratory system. R38 - Irritating to skin. R42/43 - May cause sensitisation by inhalation and skin contact. R43 - May cause sensitisation by skin contact. Skin Sens. 1: H317 - May cause an allergic skin reaction. Acute Tox. 4: H332 - Harmful if inhaled. Flam. Liq. 3: H226 - Flammable liquid and vapour. Acute Tox. 4: H312 - Harmful in contact with skin. Skin Irrit. 2: H315 - Causes skin irritation. Flam. Liq. 2: H225 - Highly flammable liquid and vapour. Eye Irrit. 2: H319 - Causes serious eye irritation. Acute Tox. 3: H331 - Toxic if inhaled. Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. STOT SE 3: H335 - May cause respiratory irritation.
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.

