

Safetv data sheet

(Contd. of page 1)

50 - 100%

10 - 25%

10 - 25%

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Page 1/8 **HERCUL** Safety data sheet 06/EC. Article 31 according to 1907/2006/EC, Article 31 ber 16 Revision: 22.01.2015 Printing date 22.01.2015 Version number 16 Revision: 22.01.2015 Trade name: HERCULAN RB-S and of the company/undertaking Hazard statements H332 Harmful if inhaled B-S H315 Causes skin irritation. H319 Causes serious eye irritation. es advised against H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. construction work H317 May cause an allergic skin reaction. H351 Suspected of causing cancer. alants H335 May cause respiratory irritation. paints, thinners, paint removers , plasters, modelling clay H373 May cause damage to organs through prolonged or repeated exposure. · Precautionary statements lication or brushing P260 Do not breathe dust/fume/gas/mist/vapours/spray. P284 ing with intimate contact and only PPE available [In case of inadequate ventilation] wear respiratory protection. P280 Wear protective gloves/protective clothing/eye protection/face protection. resulting in inclusion into or onto a matrix P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact sive indoor use resulting in inclusion into or onto a matrix lenses, if present and easy to do. Continue rinsing. sive outdoor use resulting in inclusion into or onto a matrix P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/ Coating compound/ Surface coating/ paint international regulations. · Additional information: • 1.3 Details of the supplier of the safety data sheet Contains isocyanates. May produce an allergic reaction. 2.3 Other hazards HERCULAN B.V. · Results of PBT and vPvB assessment Eneraiewea 6 · PBT: Not applicable 4231 DJ Meerkerk vPvB: Not applicable The Netherlands Phone +31 183 354700 Fax: +31 183 354740 SECTION 3: Composition/information on ingredients e-mail: info@herculan.com 3.2 Chemical characterisation: Mixtures Enviromental department Description: There are no additional ingredients present which are classified as hazardous to health or the environment and on this basis need to be mentioned in this section. +49 (0) 6131 19240 [24 h - 365 d] - Giftinformationszentrale Mainz Dangerous components: or CAS: 39420-98-9 Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy-, polymer with 1,1'-methylenebis[isocyanatobenzene] +31 (0) 183 354 700 [Mo - Fr. 8 - 17 o'clock] - HERCULAN 🚯 Resp. Sens. 1, H334; 🚯 Skin Sens. 1, H317 CAS: 101-68-8 diphenylmethane-4,4'-di-isocyanante EINECS: 202-966-0 💩 Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; 🕐 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Škin Sens. 1, H317; STOT SE 3, H335 CAS: 5873-54-1 diphenylmethane-2,4'-diisocyanate EINECS: 227-534-9 🚯 Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; 🚯 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Škin Sens. 1, H317; STOT SE 3, H335 Additional information: For the wording of the listed risk phrases refer to section 16. SECTION 4: First aid measures 4.1 Description of first aid measures · After inhalation: Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation. · After skin contact: Immediately wash with water and soap and rinse thoroughly. · After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. After swallowing: If symptoms persist consult doctor. 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available • 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available SECTION 5: Firefighting measures The product is classified and labelled according to the CLP regulation. GHS07, GHS08 5.1 Extinguishing media

- Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam

Use fire extinguishing methods suitable to surrounding conditions.

(Contd. on page 3)

HERCUL	according to 1907/20	
rinting date 22.01.2015	Version num	
SECTION 1: Identification of	the substance/mixture a	
· 1.1 Product identifier		
· Trade name:	HERCULAN R	
· Article number:	223329 1/16	
· 1.2 Relevant identified uses of the s	ubstance or mixture and use	
· Sector of Use	SU19 Building and c	
· Product category	PC1 Adhesives, sea	
	PC9a Coatings and	
	PC9b Fillers, putties,	
Process category	PROC10 Roller appl	
	PROC19 Hand-mixir	
 Environmental release category 	ERC5 Industrial use	
	ERC8c Wide dispers	
Article esterence	ERC8f Wide dispers	
Article category	AC13 Plastic articles	
 Application of the substance / the m 	fixture Coating compound/ S	

Manufacturer/Supplier: · Further information obtainable from: · 1.4 Emergency telephone number:

SECTION 2: Hazards identification



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	Safety data sheet			Safety data sheet	
	rding to 1907/2006/EC, Article 31	D. 11. 00.01.0015		ding to 1907/2006/EC, Article 31	
Printing date 22.01.2015	Version number 16	Revision: 22.01.2015	Printing date 22.01.2015	Version number 16	Revision: 22.01.201
Trade name: HERCULAN RB-S			Trade name: HERCULAN RB-S		
· 5.2 Special hazards arising from the		(Contd. of page 2)		Store protective clothing separately.	(Contd. of page
substance or mixture	Formation of toxic gases is possible during heating or in case of fire.			Avoid contact with the eyes and skin.	
- 5.3 Advice for firefighters	· · · · · · · · · · · · · · · · · · ·		De en instano anato stiene	Do not eat, drink, smoke or sniff while working.	
· Protective equipment:	Do not inhale explosion gases or combustion gases.		· Respiratory protection:	Only during spraying without adequate removal b	by suction.
SECTION 6: Accidental release meas	sures			Use suitable respiratory protective device in case	e of insufficient ventilation.
· 6.1 Personal precautions, protective			· Protection of hands:	Use suitable respiratory protective device when I	
equipment and emergency procedures	Not required.			Protective gloves	
6.2 Environmental precautions:	Do not allow to enter sewers/ surface or ground water.				
 6.3 Methods and material for containment an cleaning up: 	Id Absorb with liquid-binding material (sand, diatomite, acid binders, unive.	rsal binders, sawdust).		The glove material has to be impermeable and re the preparation.	esistant to the product/ the substanc
	Dispose contaminated material as waste according to item 13.		· Material of gloves	The selection of the suitable gloves does not only depen	d on the material, but also on furth
6.4 Reference to other sections	Ensure adequate ventilation. See Section 7 for information on safe handling.			marks of quality and varies from manufacturer to manufactu	
0.4 Reference to other sections	See Section 7 for information on personal protection equipment.			several substances, the resistance of the glove material car therefore to be checked prior to the application.	n not be calculated in advance and ha
	See Section 13 for disposal information.		· Penetration time of glove material	The exact break trough time has to be found out by the mai	nufacturer of the protective gloves ar
		I		has to be observed.	
SECTION 7: Handling and storage				The determined penetration times according to EN 374 pair conditions. Therefore a maximum wearing time, which corre	
· 7.1 Precautions for safe handling	No appaid manufactory ind			is recommended.	
T.I Frecautions for sale handling	No special measures required. Ensure good ventilation/exhaustion at the workplace.		As protection from splashes gloves made of		
	Prevent formation of aerosols.		the following materials are suitable:	Nitrile rubber, NBR Natural rubber, NR	
 Information about fire - and explosion 			· Eye protection:		
protection:	No special measures required.			Tightly sealed goggles	
 7.2 Conditions for safe storage, including any Storage. 	y incompatibilities				
 Storage: Requirements to be met by storerooms and 			· Body protection:		
receptacles:	No special requirements.			Protective work clothing	
				•	
 Information about storage in one common 					
storage facility:	Not required.	*1	SECTION 9: Physical and chemical p		
-	Protect from frost.	*		roperties	
storage facility:	Control Form Frost. Keep container tightly sealed. Store in dry conditions.		• 9.1 Information on basic physical and chemic	•	
storage facility: • Further information about storage conditions	Control From Frost. Keep container tightly sealed. Store in dry conditions. Store in a cool place.		• 9.1 Information on basic physical and chemic • General Information	•	
storage facility:	Control Form Frost. Keep container tightly sealed. Store in dry conditions.		• 9.1 Information on basic physical and chemic • General Information • Appearance:	al properties	
storage facility: Further information about storage conditions 7.3 Specific end use(s)	S: Protect from frost. Keep container tightly sealed. Store in dry conditions. Store in a cool place. No further relevant information available.		• 9.1 Information on basic physical and chemic • General Information • Appearance: Form:	Fluid	
storage facility: Further information about storage conditions	S: Protect from frost. Keep container tightly sealed. Store in dry conditions. Store in a cool place. No further relevant information available.		• 9.1 Information on basic physical and chemic • General Information • Appearance:	al properties	
storage facility: • Further information about storage conditions • 7.3 Specific end use(s)	S: Protect from frost. Keep container tightly sealed. Store in dry conditions. Store in a cool place. No further relevant information available.		• 9.1 Information on basic physical and chemic • General Information • Appearance: Form: Colour:	Fluid According to product specification	
storage facility: Further information about storage conditions 7.3 Specific end use(s) SECTION 8: Exposure controls/perso Additional information about design of technical facilities:	S: Protect from frost. Keep container tightly sealed. Store in dry conditions. Store in a cool place. No further relevant information available.		• 9.1 Information on basic physical and chemic General Information Appearance: Form: Colour: Odour:	Fluid According to product specification Characteristic	
storage facility: Further information about storage conditions 7.3 Specific end use(s) SECTION 8: Exposure controls/perso Additional information about design of technical facilities: 8.1 Control parameters	5: Protect from frost. Keep container tightly sealed. Store in dry conditions. Store in a cool place. No further relevant information available.		9.1 Information on basic physical and chemic General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition	Fluid According to product specification Characteristic Not determined.	
storage facility: Further information about storage conditions 7.3 Specific end use(s) SECTION 8: Exposure controls/perso Additional information about design of technical facilities: 8.1 Control parameters Ingredients with limit values that require more	5: Protect from frost. Keep container tightly sealed. Store in dry conditions. Store in a cool place. No further relevant information available.		9.1 Information on basic physical and chemic General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/Melting range:	al properties Fluid According to product specification Characteristic Not determined. Not determined. Undetermined.	
storage facility: Further information about storage conditions 7.3 Specific end use(s) SECTION 8: Exposure controls/perso Additional information about design of technical facilities: 8.1 Control parameters Ingredients with limit values that require mon 101-68-8 diphenylmethane-4,4'-di-isocyanante	5: Protect from frost. Keep container tightly sealed. Store in dry conditions. Store in a cool place. No further relevant information available.		9.1 Information on basic physical and chemic General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range:	Fluid According to product specification Characteristic Not determined. Not determined. Undetermined. 208 °C	
storage facility: Further information about storage conditions 7.3 Specific end use(s) SECTION 8: Exposure controls/perso Additional information about design of technical facilities: 8.1 Control parameters Ingredients with limit values that require mor 101-68-8 diphenyImethane-4,4*-di-isocyanante WEL Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³	5: Protect from frost. Keep container tightly sealed. Store in dry conditions. Store in a cool place. No further relevant information available.		9.1 Information on basic physical and chemic General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point:	Fluid According to product specification Characteristic Not determined. Not determined. Undetermined. 208 °C 201 °C	
storage facility: Further information about storage conditions 7.3 Specific end use(s) SECTION 8: Exposure controls/perso Additional information about design of technical facilities: 8.1 Control parameters Ingredients with limit values that require mor 101-68-8 diphenylmethane-4,4'-di-isocyanante WEL Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO	5: Protect from frost. Keep container tightly sealed. Store in dry conditions. Store in a cool place. No further relevant information available.		 9.1 Information on basic physical and chemic General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Flammability (solid, gaseous): 	Fluid According to product specification Characteristic Not determined. Not determined. Undetermined. 208 °C 201 °C Not applicable.	
storage facility: Further information about storage conditions 7.3 Specific end use(s) SECTION 8: Exposure controls/perso Additional information about design of technical facilities: 8.1 Control parameters Ingredients with limit values that require mor 101-68-8 diphenylmethane-4,4'-di-isocyanante WEL Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO 5873-54-1 diphenylmethane-2,4'-diisocyanate	5: Protect from frost. Keep container tightly sealed. Store in dry conditions. Store in a cool place. No further relevant information available.		• 9.1 Information on basic physical and chemic General Information · Appearance: Form: Colour: Odour: Odour threshold: · pH-value: · Change in condition Melting point/Melting range: Boiling point/Boiling range: · Flash point: · Flash point: · Ignition temperature:	Fluid According to product specification Characteristic Not determined. Not determined. 208 °C 201 °C Not applicable. 520 °C	
storage facility: • Further information about storage conditions • 7.3 Specific end use(s) SECTION 8: Exposure controls/perso • Additional information about design of technical facilities: • 8.1 Control parameters • Ingredients with limit values that require mor 101-68-8 diphenylmethane-4,4'-di-isocyanante WEL Short-term value: 0.07 mg/m ³ Sen; as -NCO 5873-54-1 diphenylmethane-2,4'-diisocyanate WEL Short-term value: 0.02 mg/m ³ Sen; as -NCO	5: Protect from frost. Keep container tightly sealed. Store in dry conditions. Store in a cool place. No further relevant information available.		9.1 Information on basic physical and chemic General Information Appearance: Form: Colour: Odour threshold: pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Flammability (solid, gaseous): Ignition temperature: Decomposition temperature:	Fluid According to product specification Characteristic Not determined. Not determined. Undetermined. 208 °C 201 °C Not applicable.	
storage facility: Further information about storage conditions 7.3 Specific end use(s) SECTION 8: Exposure controls/perso Additional information about design of technical facilities: 8.1 Control parameters Ingredients with limit values that require mor 101-68-8 diphenylmethane-4,4'-di-isocyanante WEL Short-term value: 0.07 mg/m ³ Long-term value: 0.07 mg/m ³ Sen; as -NCO 5873-54-1 diphenylmethane-2,4'-diisocyanate WEL Short-term value: 0.07 mg/m ³ Long-term value: 0.07 mg/m ³ Long-term value: 0.07 mg/m ³ Sen; as -NCO	5: Protect from frost. Keep container tightly sealed. Store in a cool place. No further relevant information available. Conal protection No further data; see item 7. nitoring at the workplace:		• 9.1 Information on basic physical and chemic General Information · Appearance: Form: Colour: Odour: Odour threshold: · pH-value: · Change in condition Melting point/Melting range: Boiling point/Boiling range: · Flash point: · Flash point: · Ignition temperature:	Fluid According to product specification Characteristic Not determined. Not determined. 208 °C 201 °C Not applicable. 520 °C	
storage facility: Further information about storage conditions 7.3 Specific end use(s) SECTION 8: Exposure controls/perso Additional information about design of technical facilities: 8.1 Control parameters Ingredients with limit values that require mor 101-68-8 diphenylmethane-4,4'-di-isocyanante WEL Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO 5873-54-1 diphenylmethane-2,4'-diisocyanate WEL Short-term value: 0.02 mg/m ³ Sen; as -NCO Additional information:	5: Protect from frost. Keep container tightly sealed. Store in dry conditions. Store in a cool place. No further relevant information available.		9.1 Information on basic physical and chemic General Information Appearance: Form: Colour: Odour threshold: pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Flammability (solid, gaseous): Ignition temperature: Decomposition temperature:	Fluid According to product specification Characteristic Not determined. Not determined. Undetermined. 208 °C 201 °C Not applicable. 520 °C Not determined.	
storage facility: Further information about storage conditions 7.3 Specific end use(s) SECTION 8: Exposure controls/perso Additional information about design of technical facilities: 8.1 Control parameters Ingredients with limit values that require mor 101-88-8 diphenylmethane-4,4'-di-isocyanante WEL Short-term value: 0.07 mg/m ³ Long-term value: 0.07 mg/m ³ Sen; as -NCO 5873-54-1 diphenylmethane-2,4'-diisocyanate WEL Short-term value: 0.07 mg/m ³ Sen; as -NCO 5873-54-1 diphenylmethane-2,4'-diisocyanate WEL Short-term value: 0.07 mg/m ³ Sen; as -NCO Additional information: 8.2 Exposure controls	5: Protect from frost. Keep container tightly sealed. Store in a cool place. No further relevant information available. Conal protection No further data; see item 7. nitoring at the workplace:		9.1 Information on basic physical and chemic General Information Appearance: Form: Colour: Odour threshold: pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Flammability (solid, gaseous): Ignition temperature: Decomposition temperature: Self-igniting:	Fluid According to product specification Characteristic Not determined. Undetermined. 208 °C 201 °C Not applicable. 520 °C Not determined. Product is not selfigniting.	
storage facility: Further information about storage conditions 7.3 Specific end use(s) SECTION 8: Exposure controls/perso Additional information about design of technical facilities: 8.1 Control parameters Ingredients with limit values that require mor 101-68-8 diphenylmethane-4,4'-di-isocyanate WEL Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO 5873-54-1 diphenylmethane-2,4'-diisocyanate WEL Short-term value: 0.02 mg/m ³ Sen; as -NCO Additional information: 8.2 Exposure controls Personal protective equipment:	S: Protect from frost. Keep container tightly sealed. Store in dry conditions. Store in a cool place. No further relevant information available. Donal protection No further data; see item 7. Inforing at the workplace: The lists valid during the making were used as basis.		• 9.1 Information on basic physical and chemic General Information · Appearance: Form: Colour: Odour: Odour threshold: · pH-value: · Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Flash point: Flash point: Ignition temperature: Decomposition temperature: Self-igniting: Danger of explosion: Explosion limits: Lower:	Fluid According to product specification Characteristic Not determined. Not determined. 208 °C 201 °C Not applicable. 520 °C Not determined. Product is not selfigniting. Product does not present an explosion hazard. 0.4 Vol %	
storage facility: Further information about storage conditions 7.3 Specific end use(s) SECTION 8: Exposure controls/perso Additional information about design of technical facilities: 8.1 Control parameters Ingredients with limit values that require mor 101-88-8 diphenylmethane-4,4'-di-isocyanante WEL Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO 5873-54-1 diphenylmethane-2,4'-diisocyanate WEL Short-term value: 0.07 mg/m ³ Long-term value: 0.07 mg/m ³ Sen; as -NCO 5873-54-1 diphenylmethane-2,4'-diisocyanate WEL Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO Additional information: 8.2 Exposure controls	5: Protect from frost. Keep container tightly sealed. Store in a cool place. No further relevant information available. Conal protection No further data; see item 7. nitoring at the workplace:		9.1 Information on basic physical and chemic General Information Appearance: Form: Colour: Odour threshold: pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Flammability (solid, gaseous): Ignition temperature: Decomposition temperature: Self-igniting: Danger of explosion: Explosion limits:	Fluid According to product specification Characteristic Not determined. Not determined. Undetermined. 208 °C 201 °C Not applicable. 520 °C Not determined. Product is not selfigniting. Product does not present an explosion hazard.	(Contd. on page 9

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Trade name: HERCULAN RB-S

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according to 1907/2006/EC, Article 31 Version number 16 Revision: 22.01.2015 Printing date 22.01.2015 Version number 16 Trade name: HERCULAN RB-S (Contd. of page 4) Harmful Irritant CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) 101-68-8 diphenylmethane-4,4'-di-isocyanante OECD 414 12 mg/m3 (rat) (NOAEL) 5873-54-1 diphenylmethane-2,4'-diisocyanate OECD 414 4 mg/m3 (rat) Carc. 2 SECTION 12: Ecological information 12.1 Toxicity · Aquatic toxicity: 101-68-8 diphenylmethane-4,4'-di-isocyanante LogPow 200 BCF (-) OECD 202 > 1000 mg/l (daphnia) OECD 203 > 1000 mg/l (fish) OECD 209 > 100 mg/l (Bacterie) OECD 211 > 10 mg/l (Daphnia Magna) OECD 302 C 0 % (-) (Modified MITI Test (II)) 5873-54-1 diphenylmethane-2,4'-diisocyanate LogPow 200 BCF (-) OECD 202 > 1000 mg/l (Daphnia Magna) OECD 203 > 1000 mg/l (fish) OECD 209 > 100 mg/l (Bacterie) 0ECD 211 > 10 mg/l (Daphnia Magna) OECD 302 C 0 % (-) (Modified MITI Test (II))

OECD 471 - (Bacterial Reserve Mutation Test) 12.2 Persistence and degradability No further relevant information available. · 12.3 Bioaccumulative potential No further relevant information available. · 12.4 Mobility in soil No further relevant information available. Additional ecological information: General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. · 12.5 Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable. 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations		
	ste treatment methods nendation	Must not be disposed together with household garbage. Do not allow product to reach sewage system.
· European waste catalogue		
08 04 09*	waste adhesives and sealants contair	ning organic solvents or other dangerous substances
08 04 10	10 waste adhesives and sealants other than those mentioned in 08 04 09	
· Uncleaned packaging: · Recommendation: Disposal must be made according to official regulations.		

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· Vapour pressure:	Not determined.
· vapour pressure.	Not determined.
· Density at 20 °C:	1.13 g/cm³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	0.0 %
Water:	0.0 %
Solids content:	13.2 %
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity · 10.2 Chemical stability · Thermal decomposition / conditions to be	
avoided:	No decomposition if used according to specifications.
 10.3 Possibility of hazardous reactions 	No dangerous reactions known.
10.4 Conditions to avoid	No further relevant information available.
 10.5 Incompatible materials: 	No further relevant information available.
10.6 Hazardous decomposition products:	No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects · Acute toxicity:				
· LD/LC50 valu	· LD/LC50 values relevant for classification:			
101-68-8 diphe	101-68-8 diphenylmethane-4,4'-di-isocyanante			
Inhalative	LC50/4 h	0.31 mg/l (rat)		
	OECD 453	positive (rat) (2 years - 5	days per week)	
	without guidelines	Sensitising (Guinea pig)		
Irritation of skin	OECD 406	Not sensitising (Guinea p	ig)	
	0ECD 474	- (Mammalian Erythrocyte	e Micronucelus Test)	
5873-54-1 diph	enylmethane-2,4'-	diisocyanate		
Inhalative	LC50/4 h	0.31 mg/l (rat)		
	OECD 453	positive (rat) (2 years - 5 days per week)		
	without guidelines	s Sensitising (Guinea pig)		
Irritation of skin	OECD 406	not senitising (Guinea pig)		
	0ECD 474	- (Mammalian Erythrocyte	e Micronucelus Test)	
· Primary irrita	ant effect:			
• on the skin:		Irr	itant to skin and mucous membranes.	
• on the eye:		Irr	itating effect.	
 Sensitisation 	:		ensitisation possible through inhalation.	
			ensitisation possible through skin contact.	
			ne product shows the following dangers according to the calculation method of the General EU assification Guidelines for Preparations as issued in the latest version:	
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rinting date 22.01.2015	Version number 16	Revision: 22.01.20
rade name: HERCULAN RB-S		
		(Contd. of page
· VOC CH	0.00 %	
· 15.2 Chemical safety assessment:	A Chemical Safety Assessment has not been carried o	put.
SECTION 16: Other information		
This information is based on our present knowle legally valid contractual relationship.	dge. However, this shall not constitute a guarantee for any speci	fic product features and shall not establis
· Relevant phrases	H315 Causes skin irritation.	
	H317 May cause an allergic skin reaction.	
	H319 Causes serious eye irritation.	
	H332 Harmful if inhaled.	
	H334 May cause allergy or asthma symptoms or breat	hing difficulties if inhaled.
	H335 May cause respiratory irritation.	
	H351 Suspected of causing cancer.	
	H373 May cause damage to organs through prolonged	l or repeated exposure.
 Department issuing MSDS: 	Environmental Department	
· Contact:	Dr. Michael Kissel	
 Abbreviations and acronyms: 	RID: Règlement international concernant le transport des marcha Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation	andises dangereuses par chemin de fer (Regulati
	ADR: Accord européen sur le transport des marchandises dangere	uses par Route (European Agreement concerning
	International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods	
	IATA: International Air Transport Association	
	GHS: Globally Harmonised System of Classification and Labelling of C EINECS: European Inventory of Existing Commercial Chemical Subst	
	ELINCS: European List of Notified Chemical Substances	ances
	CAS: Chemical Abstracts Service (division of the American Chemical	Society)
	LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent	
	Acute Tox. 4: Acute toxicity, Hazard Category 4	
	Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Evo Irrit. 2: Socious ave demograficate irritation, Hazard Category 2	
	Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2 Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1	
	Skin Sens. 1: Sensitisation - Skin, Hazard Category 1	
	Carc. 2: Carcinogenicity, Hazard Category 2 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Ca	ategory 3
	STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazan	
* * Data compared to the previous version	n	
altered.		

Trade name: HERCULAN RB-S

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SECTION 14: Transport information		
· 14.1 UN-Number · ADR, ADN, IMDG, IATA	Void	
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Void	
· 14.4 Packing group · ADR, IMDG, IATA	Void	
 14.5 Environmental hazards: Marine pollutant: 	No	
 14.6 Special precautions for user 	Not applicable.	
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.		
· UN "Model Regulation":		

SECTION 15: Regulatory information

 15.1 Safety, health and environmental regulat Labelling according to Regulation (EC) No 	ions/legislation specific for the substance or mixture
1272/2008 Hazard pictograms Signal word	The product is classified and labelled according to the CLP regulation. GHS07, GHS08 Danger
· Hazard-determining components of labelling:	Poly[oxy(methyl-1,2-ethanediyl)], .alphahydroomegahydroxy-, polymer with 1,1'- methylenebis[isocyanatobenzene] diphenylmethane-4,4'-di-isocyanante diphenylmethane-2,4'-diisocyanate
· Hazard statements	H332 Harmful if inhaled. H335 Causes skin irritation. H315 Causes serious eye irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction. H355 Suspected of causing cancer. H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure.
· Precautionary statements	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P284 [In case of inadequate ventilation] wear respiratory protection. P284 P305 P305 P305 P305 P305 P305 P305 P305
· National regulations:	
· Technical instructions (air):	Class Share in % / 20.5
· Waterhazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.
• Other regulations, limitations and prohibitive regulations	No sales to private
· VOC · VOC EU [%]	0.00 % (Contd. on page 8)