Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

watco[®] SAFETY DATA SHEET

Protecta-Coat - Curing Agent

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

: Protecta-Coat - Curing Agent
: Paint
: Liquid.
: QUT0-70E7-7005-HCMY

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

	Identified uses
Professional use Industrial use	
Uses advised against	Reason
Consumer use	Product is not intended for consumer use.

1.3 Details of the supplier of the safety data sheet

Watco UK Limited Eastgate Court 195-205 High Street Guildford Surrey GU1 3EH Telephone no.: +44 (0) 1483 425000 (08:00 - 18:00) Fax no.: +44 (0) 1483 428888

e-mail address of person : rpmeurohas@rustoleum.eu responsible for this SDS

1.4 Emergency telephone number

National advisory body/Poison Centre

Supplier

Telephone number United Kingdom:	: +44 870 8200418 / +44 2038073798
Great Britain	

Hours of operation

: 24 / 7

SECTION 2: Hazards identification

2.1 Classification of the sub	stance or mixture)	
Product definition	: Mixture		
Classification according to	Regulation (EC)	No. 1272/2008 [CLP/GHS]	
Acute Tox. 4, H332			
Skin Sens. 1, H317			
STOT SE 3, H335			
The product is classified as h	nazardous accordir	ng to Regulation (EC) 1272/2008 as amended.	
See Section 16 for the full te	xt of the H stateme	ents declared above.	

See Section 11 for more detailed information on health effects and symptoms.

SECTION 2: Hazards identification

2.2 Label elements		
Hazard pictograms	:	
Signal word	: \	Varning
Hazard statements	H	H317 - May cause an allergic skin reaction. H332 - Harmful if inhaled. H335 - May cause respiratory irritation.
Precautionary statements		
General	: 1	Not applicable.
Prevention	F	P280 - Wear protective gloves. P284 - In case of inadequate ventilation wear respiratory protection. P271 - Use only outdoors or in a well-ventilated area.
Response		P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for preathing.
Storage	: 1	Not applicable.
Disposal		P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients		oolyhexamethylene diisocyanate nexamethylene-di-isocyanate
Supplemental label elements	: E	EUH204 - Contains isocyanates. May produce an allergic reaction.
Supplemental label elements : Detergents - Regulation (EC) No 907/2006	: ١	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: ١	Not applicable.
Special packaging requirem	ents	<u>2</u>
Containers to be fitted with child-resistant fastenings	: ١	Not applicable.
Tactile warning of danger	: 1	Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do : None known. not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures	÷	Mixture
United Kingdom: Great Britain	ı	

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
polyhexamethylene diisocyanate	REACH #: 01-2119485796-17 CAS: 28182-81-2 List #: 931-274-8	≥90	Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335	ATE [Inhalation (dusts and mists)] = 1,5 mg/l	[1] [2]
hexamethylene-di- isocyanate	REACH #: 01-2119457571-37 EC: 212-485-8 CAS: 822-06-0 Index: 615-011-00-1	≤0,1	Acute Tox. 4, H302 Acute Tox. 1, H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335	ATE [Oral] = 500 mg/kg ATE [Inhalation (vapours)] = 0,05 mg/l Resp. Sens. 1, H334: $C \ge 0,5\%$ Skin Sens. 1, H317: $C \ge 0,5\%$	[1] [2]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

Туре

[1] Substance classified with a health or environmental hazard

List numbers have no legal significance.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

	4.1	Description	on of firs	t aid m	leasures
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Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

SECTION 4: First aid measures

Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:	None known.
5.2 Special hazards arising	from	the substance or mixture
Hazards from the substance or mixture	:	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
5.3 Advice for firefighters		
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

SECTION 5: Firefighting measures

Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Additional information	: No unusual hazard if involved in a fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, pr	tective equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and material for	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined

areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance.

7.1	Precautions	for safe	handling
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Protective measures	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

SECTION 7: Handling and storage

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations

Not available.Not available.

Industrial sector specific solutions

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

United Kingdom: Great Britain

Product/ingredient name	Exposure limit valuesEH40/2005 WELs (United Kingdom (UK), 1/2020). Inhalation sensitiser.STEL: 0,07 mg/m³, (as -NCO) 15 minutes.TWA: 0,02 mg/m³, (as -NCO) 8 hours.EH40/2005 WELs (United Kingdom (UK), 1/2020). Inhalation sensitiser.STEL: 0,07 mg/m³, (as -NCO) 15 minutes.TWA: 0,02 mg/m³, (as -NCO) 15 minutes.TWA: 0,02 mg/m³, (as -NCO) 15 minutes.TWA: 0,02 mg/m³, (as -NCO) 8 hours.	
polyhexamethylene diisocyanate hexamethylene-di-isocyanate		
procedures atmosphere of of the ventilat protective equ the following: the assessme limit values an atmospheres of exposure to (Workplace a	contains ingredients with exposure limits, personal, workplace or biological monitoring may be required to determine the effectiveness ion or other control measures and/or the necessity to use respiratory upment. Reference should be made to monitoring standards, such as European Standard EN 689 (Workplace atmospheres - Guidance for ent of exposure by inhalation to chemical agents for comparison with nd measurement strategy) European Standard EN 14042 (Workplace - Guide for the application and use of procedures for the assessment o chemical and biological agents) European Standard EN 482 tmospheres - General requirements for the performance of procedure irement of chemical agents) Reference to national guidance	

for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
polyhexamethylene diisocyanate	DNEL	Short term Inhalation	1 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	0,5 mg/m³	Workers	Local
hexamethylene-di-isocyanate	DNEL	Short term Inhalation	1 mg/m³	Workers	Local
	DNEL	Long term Inhalation	0,5 mg/m³	Workers	Local
	DNEL	Long term Inhalation	0,35 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	0,7 mg/m³	Workers	Local

SECTION 8: Exposure controls/personal protection

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
polyhexamethylene diisocyanate	Fresh water	0,127 mg/l	-
	Marine	0,0127 mg/l	-
	Fresh water sediment	266700 mg/kg dwt	-
	Marine water sediment	26670 mg/kg dwt	-
	Soil	53182 mg/kg dwt	-
	Sewage Treatment	38,28 mg/l	-
	Plant	_	
hexamethylene-di-isocyanate	Fresh water	0,127 mg/l	-
	Marine	0,0127 mg/l	-
	Sediment	266700 mg/kg dwt	-
	Soil	53182 mg/kg dwt	-
	Sewage Treatment	38,28 mg/l	-
	Plant		
	Fresh water	>0,05 mg/l	-
	Fresh water sediment	>1,33 mg/kg	-
	Marine water	>0,005 mg/l	-
	Marine water sediment	>0,133 mg/kg	-
	Sewage Treatment	55,6 mg/l	-
	Plant		
	Soil	>0,066 mg/kg	-

8.2 Exposure controls

Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne
	contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Use eye protection according to EN 166. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. Recommended: safety glasses with side-shields.

Skin protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Hand protection	 Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): butyl rubber (0.6 mm) gloves
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SECTION 8: Exposure controls/personal protection

		The recommendation for the type or types of glove to use when handling this product is based on information from the following source: EN374. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Wear overalls or long sleeved shirt. (EN 467)
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: organic vapour (Type A) and particulate filter (EN 141)
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physica	l a	na chemic	cal properties		
Physical state	:	Liquid.			
Colour	:	Clear. Co	olourless.		
Odour	1	Mild.			
Odour threshold	:	Not availa	able.		
Melting point/freezing point	:	Not availa	able.		
Initial boiling point and boiling range	1	Not releva	ant due to nature of the p	roduct.	
Flammability (solid, gas)	1	Not availa	able.		
Lower and upper explosion limit	:	Not availa	able.		
Flash point	1	Closed cu	up: 158°C (316,4°F) [Lite	rature]	
Auto-ignition temperature	4		ant due to nature of the p	roduct.	
Decomposition temperature	÷	Not availa	able.		
рН	4	Not applie	cable.		
pH : Justification	4	Product is	s non-polar/aprotic.		
Viscosity	1	Dynamic:	: 1200 mPa·s [DIN EN IS	O 3219]	
Solubility(ies)	1				
Not available.					
Solubility in water	:	Not availa	able.		
Miscible with water	1	No.			
Partition coefficient: n-octanol/ water	1	Not applie	cable.		
Vapour pressure	1	<0,3 kPa	(<2,2502 mm Hg) [calcu	lated.]	
Evaporation rate	:	Not availa	able.		
Relative density	1	Not availa	able.		
Date of issue/Date of revision	: 1	8/01/2023	Date of previous issue	: 18/01/2023	Version

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9.1 Information on basic physical and chemical properties

SECTION 9: Physical and chemical properties

Density	: 1,13 to 1,19 g/cm ³ [20°C (68°F)] [DIN 53217]
Vapour density	: Not available.
Explosive properties	: Not available.
Oxidising properties	: Not available.
Particle characteristics	
Median particle size	: Not applicable.

SECTION 10: Stability and reactivity				
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.			
10.2 Chemical stability	: The product is stable.			
10.3 Possibility of hazardous reactions	: Hazardous reactions or instability may occur under certain conditions of storage or use. Amines and alcohols may cause exothermic reactions. Evolution of gases in closed containers causes overpressure and produces a risk of bursting. Precautions should be taken to minimise exposure to atmospheric humidity or water. CO ₂ will be formed, which, in closed containers, could result in pressurisation.			
10.4 Conditions to avoid	: No specific data.			
10.5 Incompatible materials	: No specific data.			
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.			

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
polyhexamethylene diisocyanate	LC50 Inhalation Dusts and mists	Rat - Female	0,39 mg/l	4 hours
	LD50 Dermal LD50 Dermal LD50 Oral	Rabbit Rat Rat	>2000 mg/kg >2000 mg/kg >5000 mg/kg	- -
hexamethylene-di- isocyanate	LC50 Inhalation Dusts and mists	Rat	0,124 mg/m ³	4 hours
	LCLo Inhalation Dusts and mists	Rat	60 mg/m³	4 hours
	LD50 Dermal	Rabbit	>7000 mg/kg	-

Conclusion/Summary : Harmful if inhaled.

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
polyhexamethylene diisocyanate	N/A	N/A	N/A	N/A	1,5
hexamethylene-di-isocyanate	500	N/A	N/A	0,05	N/A

Irritation/Corrosion

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
polyhexamethylene diisocyanate	Eyes - Cornea opacity	Rabbit	1	-	-
	Eyes - Moderate irritant	Rabbit	-	100 milligrams	-
	Skin - Oedema	Rabbit	1	4 hours	-
	Skin - Moderate irritant	Rabbit	-	500 milligrams	-
hexamethylene-di-isocyanate	Eyes - Redness of the conjunctivae	Rabbit	3	-	-
	Skin - Erythema/Eschar	Rabbit	3	-	-

Conclusion/Summary

S	ki	n	

: Based on available data, the classification criteria are not met.

Eyes

: Based on available data, the classification criteria are not met.

Eyes Respiratory

: May cause respiratory irritation.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
polyhexamethylene diisocyanate	Respiratory	Guinea pig	Not sensitizing
	skin skin	Guinea pig Mouse	Sensitising Sensitising
hexamethylene-di- isocyanate	Respiratory	Guinea pig	Sensitising
-	skin	Guinea pig	Sensitising

Conclusion/Summary

: May cause an allergic skin reaction.

Respiratory

Skin

: Based on available data, the classification criteria are not met.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
polyhexamethylene diisocyanate	OECD 471	Subject: Bacteria	Negative
-	OECD 476	Subject: Mammalian-Animal	Negative
hexamethylene-di-isocyanate	OECD 471	Experiment: In vitro Subject: Bacteria	Negative
	OECD 476	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 474	Experiment: In vivo Subject: Mammalian-Animal	Negative
Conclusion/Summary	: Based on availabl	le data, the classification criteria are no	ot met.
Carcinogenicity			

Conclusion/Summary	: Based on available data, the classification criteria are not met.
Reproductive toxicity	
Conclusion/Summary	: Based on available data, the classification criteria are not met.
Teratogenicity	
Conclusion/Summary	: Based on available data, the classification criteria are not met.
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Specific target organ toxicity (single exposure)

Product/ing	redient name	Category	Route of	Target organs			
Toducang		Category	exposure	Target organs			
polyhexamethylene diisocyar	nate	Category 3	-	Respiratory tract			
hexamethylene-di-isocyanate	Category 3	-	Respiratory tract irritation				
Specific target organ toxicit	t <u>y (repeated exposure)</u>		•				
Not available.							
Aspiration hazard							
Not available.							
nformation on likely routes of exposure	: Not available.						
Potential acute health effects	5						
Eye contact	 No known significant effect 	ts or critical haza	rds.				
Inhalation	: Harmful if inhaled. May ca						
Skin contact	: May cause an allergic skir						
Ingestion	: No known significant effects or critical hazards.						
symptoms related to the phy	vsical, chemical and toxicolo	gical characteris	<u>stics</u>				
Eye contact	: No specific data.	No specific data.					
Inhalation	: Adverse symptoms may ir respiratory tract irritation coughing	nclude the followin	g:				
Skin contact	: Adverse symptoms may ir irritation redness	nclude the followin	g:				
Ingestion	: No specific data.						
Delayed and immediate effect	ts as well as chronic effects	from short and	long-term exposi	<u>ıre</u>			
Short term exposure							
Potential immediate effects	: Not available.						
Potential delayed effects	: Not available.						
<u>Long term exposure</u>							
Potential immediate effects	: Not available.						
Potential delayed effects	: Not available.						
Potential chronic health effe	ects						
Product/ingredient name	Result	Species	Dose	Exposure			
polyhexamethylene diisocyanate	Sub-chronic LC50 Inhalation Dusts and mists	Rat	14,7 mg/m ³	6 hours; 5 days per week Intermittent			
	Sub-acute LC50 Inhalation Dusts and mists	Rat	89,9 mg/m³	6 hours; 5 days per week			
	Sub-acute LCLo Inhalation	Rat	4,3 mg/m³	Intermittent 6 hours; 5 days			

Chronic NOAEL Inhalation

Dusts and mists

Dusts and mists

3,3 mg/m³

Rat

6 hours; 5 days

per week Intermittent

per week

SECTION 11: Toxicological information

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hexamethylene-di- isocyanate	Chronic LCLo Inhalation Vapour	Rat	0,025 p.p.m.	Intermittent 30 days; 6 hours per day Intermittent
Conclusion/Summary	: Based on available data, th	ne classification cri	teria are not met.	
General	: Once sensitized, a severe to very low levels.	allergic reaction m	ay occur when sub	sequently exposed
Carcinogenicity	: No known significant effect	s or critical hazard	S.	
Mutagenicity	: No known significant effect	s or critical hazard	S.	
Reproductive toxicity	: No known significant effect	s or critical hazard	S.	

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available. 11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
polyhexamethylene diisocyanate	Acute EC50 >10000 mg/l	Bacteria	3 hours
Ş	Acute EC50 >100 mg/l	Daphnia spec.	48 hours
	Acute IC50 >1000 mg/l	Algae - Scenedesmus	72 hours
	C C	subspicatus	
	Acute LC50 >100 mg/l	Fish	96 hours
hexamethylene-di-isocyanate	Acute EC50 >77,4 mg/l	Algae	72 hours
	Acute EC50 842 mg/l	Bacteria	3 hours

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum	
polyhexamethylene diisocyanate	OECD 301C	2 % - Not readily - 2	8 days -	-	
hexamethylene-di-isocyanate	OECD 301F	42 % - 10 days	-	-	
	EU 301F Ready	42 % - 28 days	-	-	
	Biodegradability - Manometric Respirometry Test				
Conclusion/Summary : Based on available data, the classification criteria are not met.					
Product/ingredient name	Aquatic half-life		Photolysis	Biodegradability	

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
polyhexamethylene	Fresh water 0,32 days, 23°C	50%; 0.49 day(s)	Not readily
diisocyanate hexamethylene-di-isocyanate	-	-	Not readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
polyhexamethylene diisocyanate	5,54	367,7	low
hexamethylene-di-isocyanate	0,02	57,63	low

Date of issue/Date of revision

SECTION 12: Ecological information

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Non-volatile.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance.

13.1 Waste treatment methods

Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: Yes.

European waste catalogue (EWC)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
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Environmental hazards	ansport i No.	nformation	No.	No.
Environmental hazards	No.	No.	No.	No.
14.6 Special precautio				
user	up		ure that persons transpor	port in closed containers that are ting the product know what to do i
14.7 Transport in bulk according to IMO instruments	K : No	t available.		
SECTION 15: Re	egulatory	information		
15.1 Safety, health and	d environmen	tal regulations/legis	lation specific for the s	ubstance or mixture
Other EU regulations	-			
VOC			ive 2004/42/EC on VOC a nnical data sheet for furth	apply to this product. Refer to the er information.
VOC for Ready-for- Mixture	•		/l (2010). <= 80g/l VOC.	
Industrial emission (integrated pollutio prevention and con Air	n	t listed		
Industrial emission (integrated pollutio prevention and con Water	n	t listed		
United Kingdom: Gr	reat Britain			
<u>UK (GB) /REACH</u>				
Annex XIV - List of s	<u>substances si</u>	ibject to authorisati	<u>on</u>	
Annex XIV None of the compo	nente are listo	4		
Substances of very				
None of the compo				
Ozone depleting sul Not listed.	<u>bstances</u>			
Prior Informed Cons Not listed.	<u>sent (PIC)</u>			
Persistent Organic I Not listed.	Pollutants			
Aerosol dispensers Seveso Directive This product is not co				

SECTION 15: Regulatory information

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances,

arket

mixtures and articles

International regulations

Stockholm Convention on Persistent Organic Pollutants

List name	Ingredient name	Status
Not listed.		

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

List name	Ingredient name	Status
Not listed.		

CN code : 3208 90 91 00

Inventory list		
Australia	:	All components are listed or exempted.
Canada	:	All components are listed or exempted.
China	1	All components are listed or exempted.
Eurasian Economic Union	1	Russian Federation inventory: Not determined.
Japan	:	Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
New Zealand	:	All components are listed or exempted.
Philippines	:	All components are listed or exempted.
Republic of Korea	:	All components are listed or exempted.
Taiwan	1	All components are listed or exempted.
Thailand	1	All components are listed or exempted.
Turkey	1	All components are listed or exempted.
United States	1	All components are active or exempted.
Viet Nam	:	All components are listed or exempted.
15.2 Chemical safety assessment	:	This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

	5 I J
Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
	1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative
Procedure used to d	erive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

SECTION 16: Other information				
	sification Justification			
Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335	On basis of test data Calculation method Calculation method			
Full text of abbreviated H st	ments			
United Kingdom: Great Brit				
Full text of abbreviated H statements	 H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H330 Fatal if inhaled. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. 			
Full text of classifications [CLP/GHS]	Acute Tox. 1ACUTE TOXICITY - Category 1Acute Tox. 4ACUTE TOXICITY - Category 4Eye Irrit. 2SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2Resp. Sens. 1RESPIRATORY SENSITISATION - Category 1Skin Irrit. 2SKIN CORROSION/IRRITATION - Category 2Skin Sens. 1SKIN SENSITISATION - Category 1STOT SE 3SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE Category 3			
Date of printing	15/03/2023			
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Date of previous issue	18/01/2023			
Version	4			
Notice to reader				

Notice to reader

IMPORTANT NOTE: The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The information contained in this data sheet (as may be amended from time to time) is not intended to be exhaustive and is presented in good faith and believed to be correct as of the date on which it is prepared. It is the user's responsibility to verify that this data sheet is current prior to using the product to which it relates. Persons using the information must make their own determinations as to the suitability of the relevant product for their purposes prior to use. Where those purposes are other than as specifically recommended in this safety data sheet, then the user uses the product at their own risk.

MANUFACTURER'S DISCLAIMER: the conditions, methods and factors affecting the handling, storage, application, use and disposal of the product are not under the control and knowledge of the manufacturer. Therefore the manufacturer does not assume responsibility for any adverse events which may occur in the handling, storage, application, use, misuse or disposal of the product and, so far as permitted by applicable law, the manufacturer expressly disclaims liability for any and all loss, damages and/or expenses arising out of or in any way connected to the storage, handling, use or disposal of the product. Safe handling, storage, use and disposal are the responsibility of the users. Users must comply with all applicable health and safety laws.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.