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

# **TCO<sup>®</sup> SAFETY DATA SHEET**

Cold Set Coating - Curing Agent

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

1.1 Product identifier	
Product name	
Product description	
Product type	
UFI	

: Cold Set Coating - Curing Agent

: Paint

: Liquid.

: MGT0-60NN-0006-V09Q

#### 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	substance or mixture	
Product definition	: Mixture	
<b>Classification accordin</b>	g 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 hazardous accordin	g to Regulation (EC) 1272/2008 as amended.
See Section 16 for the fu	Ill text of the H stateme	nts 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	Warning	
Hazard statements	H317 - May cause an allergic skin reaction. H332 - Harmful if inhaled. H335 - May cause respiratory irritation.	
Precautionary statements		
General	Not applicable.	
Prevention	<ul> <li>P280 - Wear protective gloves.</li> <li>P284 - In case of inadequate ventilation wear respiratory protection.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> </ul>	
Response	P304 + P340 - IF INHALED: Remove person to fresh air and keep comforta breathing.	ble for
Storage	Not applicable.	
Disposal	P501 - Dispose of contents and container in accordance with all local, region national and international regulations.	nal,
Hazardous ingredients	polyhexamethylene diisocyanate hexamethylene-di-isocyanate	
Supplemental label elements	EUH204 - Contains isocyanates. May produce an allergic reaction.	
Supplemental label elements : Detergents - Regulation (EC) No 907/2006	Not applicable.	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable.	
Special packaging requirem	<u>ts</u>	
Containers to be fitted with child-resistant fastenings	Not applicable.	
Tactile warning of danger	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		

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. <u>Type</u>

[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 of first aid measures

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 f	rom	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.
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.
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### **SECTION 5: Firefighting measures**

**Additional information** 

: No unusual hazard if involved in a fire.

### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective 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	5 :	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 fo	r co	ntainment 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.

### **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance.

#### 7.1 Precautions for safe handling

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.

See Section 13 for additional waste treatment information.

#### 7.2 Conditions for safe storage, including any incompatibilities

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Cold Set Coating - Curing Agent

### **SECTION 7: Handling and storage**

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)

: Not available.

: Not available.

Recommendations 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 values
polyhexamethylene diisocyanate	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) 8 hours.
hexamethylene-di-isocyanate	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) 8 hours.

**Recommended monitoring procedures** If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures 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 <sup>3</sup>	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 <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	0,7 mg/m³	Workers	Local

#### **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 Plant	38,28 mg/l	-
	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 Plant	55,6 mg/l	-
	Soil	>0,066 mg/kg	-

### **SECTION 8: Exposure controls/personal protection**

#### 8.2 Exposure controls

Appropriate engineering controls	<ul> <li>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.</li> </ul>
Individual protection meas	sures
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

# **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	i and chemical properties
Physical state	: Liquid.
Colour	: Clear. Colourless.
Odour	: Mild.
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: Not relevant due to nature of the product.
Flammability (solid, gas)	: Not available.
Lower and upper explosion limit	: Not available.
Flash point	: Closed cup: 158°C (316,4°F) [DIN 53213]
Auto-ignition temperature	: Not relevant due to nature of the product.
Decomposition temperature	: Not available.
рН	: Not applicable.
pH : Justification	: Product is non-polar/aprotic.
Viscosity	: Dynamic: 1200 mPa⋅s [DIN EN ISO 3219]
Solubility(ies)	:
Not available.	
Solubility in water	: Not available.
Partition coefficient: n-octanol/ water	: Not applicable.
Vapour pressure	: <0,3 kPa (<2,2502 mm Hg)
Evaporation rate	: Not available.
Relative density	: 1,16
Density	: 1,13 to 1,19 g/cm <sup>3</sup> [DIN 53217]
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#### 9.1 Information on basic physical and chemical properties

# **SECTION 9: Physical and chemical properties**

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 <sub>2</sub> 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	Rabbit Rat	>2000 mg/kg >2000 mg/kg	-
hexamethylene-di- isocyanate	LD50 Oral LC50 Inhalation Dusts and mists	Rat Rat	>5000 mg/kg 0,124 mg/m³	- 4 hours
loogunate	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)
Cold Set Coating - Curing Agent	N/A	N/A	N/A	11	N/A
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**

Skin	
SKIII	

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

: 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
hexamethylene-di-	skin skin Respiratory	Guinea pig Mouse Guinea pig	Sensitising Sensitising Sensitising
isocyanate	skin	Guinea pig	Sensitising

#### **Conclusion/Summary**

: May cause an allergic skin reaction.

#### Skin Respiratory

**Respiratory** : 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

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

Cold Set Coating - Curing Agent					
SECTION 11: Toxico	logical information	on			
Product/ing	redient name	Category	Route of exposure	Target organs	
Cold Set Coating - Curing Ag	gent	Category 3	-	Respiratory tract	
polyhexamethylene diisocyar	nate	Category 3	-	irritation Respiratory tract irritation	
hexamethylene-di-isocyanate	9	Category 3	-	Respiratory tract irritation	
Specific target organ toxicit	ty (repeated exposure)				
Not available.					
Aspiration hazard					
Not available.					
nformation on likely routes of exposure	: Not available.				
Potential acute health effects	<u>6</u>				
Eye contact	: No known significant	effects or critical haza	rds.		
Inhalation	: Harmful if inhaled. May cause respiratory irritation.				
Skin contact	: May cause an allergic skin reaction.				
Ingestion	: No known significant	effects or critical haza	rds.		
Symptome valated to the phy	voicel chemical and tax	icological characteric	tico		
Symptoms related to the phy Eye contact	: No specific data.		<u>aucs</u>		
Inhalation	•	nay include the followin			
innaiation	respiratory tract irritat		ıg.		
Skin contact	: Adverse symptoms n irritation redness	nay include the followin	g:		
Ingestion	: No specific data.				
Delayed and immediate effect	ote as well as chronic of	facts from short and	long-term expect	Iro	
Short term exposure		ieota ironi anuri anu		<u>11 G</u>	
Potential immediate	: Not available.				
effects					
Potential delayed effects	: Not available.				
Long term exposure	<b>N N N N N N N N N N</b>				
Detential immediate	: Not available.				
Potential immediate effects	i Hotaranabio.				

#### Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
polyhexamethylene diisocyanate	Sub-chronic LC50 Inhalation Dusts and mists	Rat	14,7 mg/m³	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 Intermittent
	Sub-acute LCLo Inhalation Dusts and mists	Rat	4,3 mg/m <sup>3</sup>	6 hours; 5 days per week Intermittent
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# **SECTION 11: Toxicological information**

	Chronic NOAEL Inhalation Dusts and mists	Rat	3,3 mg/m³	6 hours; 5 days per week Intermittent	
hexamethylene-di- isocyanate	Chronic LCLo Inhalation Vapour	Rat	0,025 p.p.m.	30 days; 6 hours per day Intermittent	
<b>Conclusion/Summary</b>	: Based on available data, th	e classification cri	teria are not met.		
General	: Once sensitized, a severe a to very low levels.	allergic reaction m	ay occur when sub	esequently exposed	
Carcinogenicity	: No known significant effects or critical hazards.				
Mutagenicity	: No known significant effects or critical hazards.				
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
,	Acute EC50 >100 mg/l	Daphnia spec.	48 hours
	Acute IC50 >1000 mg/l	Algae - Scenedesmus subspicatus	72 hours
	Acute LC50 >100 mg/l	Fish	96 hours
hexamethylene-di-isocyanate		Algae	72 hours
	Acute EC50 842 mg/l	Bacteria	3 hours

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
polyhexamethylene diisocyanate	OECD 301C	2 % - Not readily - 28 days	-	-
hexamethylene-di-isocyanate	OECD 301F EU 301F Ready Biodegradability - Manometric Respirometry Test	42 % - 10 days 42 % - 28 days	-	-

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

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

#### 12.3 Bioaccumulative potential

SECTION 12: Ecolog	ical informati	on	
Product/ingredient name	LogPow	BCF	Potential
polyhexamethylene diisocyanate	5,54	367,7	low
hexamethylene-di-isocyanate	0,02	57,63	low

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

#### 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

<u>Product</u> 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 catalo	ogue (EWC)
Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

 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	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
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SECTION 14: Transport information				
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

14.6 Special precautions for a user	ransport within user's premises: always transport in clos pright and secure. Ensure that persons transporting the pro- ne event of an accident or spillage.	
14.7 Transport in bulk	lot available.	

# instruments SECTION 15: Regulatory information

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

Other EU regulations
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according to IMO

VOC	:
VOC for Ready-for-Use Mixture	: 2004/42/EC - IIA/j: 500g/l (2010). <= 80g/l VOC.
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed
United Kingdom: Great Bri	<u>tain</u>
<u>UK (GB) /REACH</u>	
Annex XIV - List of substan	ices subject to authorisation
Annex XIV	
None of the components a	re listed.
Substances of very high o	<u>concern</u>
None of the components a	re listed.
Ozone depleting substance	es
Not listed.	—
Prior Informed Consent (PI	<u>C)</u>
Not listed.	
Persistent Organic Pollutar Not listed.	<u>nts</u>
Aerosol dispensers	:
Seveso Directive	

### **SECTION 15: Regulatory information**

This product is not controlled under the Seveso Directive.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, 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

1	All components are listed or exempted.
:	All components are listed or exempted.
:	All components are listed or exempted.
:	Russian Federation inventory: Not determined.
:	Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
:	All components are listed or exempted.
:	All components are listed or exempted.
:	All components are listed or exempted.
:	All components are listed or exempted.
:	All components are listed or exempted.
:	All components are listed or exempted.
:	All components are active or exempted.
:	All components are listed or exempted.
:	This product contains substances for which Chemical Safety Assessments are still

#### assessment

required.

#### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Date of issue/Date of revision : 22/	2022 Date of previous issue	: 22/08/2022 Version	:4	15/16
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### **SECTION 16: Other information**

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification		
Acute Tox. 4, H332	On basis of test data		
Skin Sens. 1, H317	Calculation method		
STOT SE 3, H335	Calculation method		

#### Full text of abbreviated H statements

United Kingdom: Great Britai	<u>n</u>	
Full text of abbreviated H statements	:	<ul> <li>H302 Harmful if swallowed.</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H319 Causes serious eye irritation.</li> <li>H330 Fatal if inhaled.</li> <li>H332 Harmful if inhaled.</li> <li>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>H335 May cause respiratory irritation.</li> </ul>
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	:	14/12/2022
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Date of previous issue	:	22/08/2022
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.