

SAFETY DATA SHEET

Elastadeck Walkway Gritcoat Base

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

1.1 Product identifier

Product name : Elastadeck Walkway Gritcoat Base

Product description : Coating. **Product type** : Liquid.

: 9CYU-V50V-099K-XQG2 UFI

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

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

1.3 Details of the supplier of the safety data sheet

Tor Coatings Limited Portobello Industrial Estate Birtley County Durham **United Kingdom** DH3 2RE

Telephone no.: +44 (0) 191 4106611 Fax no.: +44 (0) 191 4920125

enquiries@tor-coatings.com

e-mail address of person : rpmeurohas@rustoleum.eu

responsible for this SDS

1.4 Emergency telephone number

Supplier

+44 870 8200418 / +44 2038073798 Telephone number

Hours of operation : 24 / 7

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Sens. 1, H317 Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

Date of issue/Date of revision : 17/03/2020 Date of previous issue : 17/03/2020 Version : 2 1/18

SECTION 2: Hazards identification

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

2.2 Label elements

Hazard pictograms



Signal word : Warning

Hazard statements: May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects.

Precautionary statements

General : Not applicable.

Prevention : P261 - Avoid breathing vapour.

P280 - Wear protective gloves and eye protection:

- neoprene or butyl rubber gloves and safety glasses with side-shields.

P273 - Avoid release to the environment.

Response : P302 - IF ON SKIN:

P352 - Wash with plenty of soap and water. P333 - If skin irritation or rash occurs:

P313 - Get medical attention. Get medical attention.

P305 - IF IN EYES:

P351 - Rinse cautiously with water for several minutes.

P338 - Remove contact lenses, if present and easy to do. Continue rinsing.

P337 - If eye irritation persists:

Storage : Not applicable.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Hazardous ingredients : 1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate;

hexamethylene-1,6-diisocyanate oligomer (type uretdione); polyhexamethylene diisocyanate and 3-lsocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers

Supplemental label

elements

: Contains isocyanates. May produce an allergic reaction.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : For professional use only.

Special packaging requirements

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 not result in classification

: None known.

Date of issue/Date of revision : 17/03/2020 Date of previous issue : 17/03/2020 Version : 2 2/18

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

			<u>Classification</u>	
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
1,6-hexanediyl-bis(2- (2-(1-ethylpentyl) -3-oxazolidinyl)ethyl) carbamate	REACH #: 01-0000015906-63 EC: 411-700-4 CAS: 140921-24-0 Index: 616-079-00-5	≤10	Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]
2-ethylhexyl (3-isocyanatomethylphenyl) -carbamate	EC: 261-180-6	≤5	Skin Irrit. 2, H315	[1]
propylene carbonate	EC: 203-572-1 CAS: 108-32-7 Index: 607-194-00-1	≤5	Eye Irrit. 2, H319	[1]
hexamethylene- 1,6-diisocyanate oligomer (type uretdione)	REACH #: 01-2119488177-26 EC: 931-288-4 CAS: 28182-81-2	≤3	Acute Tox. 3, H331 Skin Sens. 1, H317 STOT SE 3, H335	[1] [2]
(bis(isopropyl) naphthalene)	REACH #: 01-2119565150-48 EC: 254-052-6 CAS: 38640-62-9	≤3	Asp. Tox. 1, H304 Aquatic Chronic 1, H410 (M=1)	[1]
polyhexamethylene diisocyanate	REACH #: 01-2119485796-17 EC: 931-274-8 CAS: 28182-81-2	≤3	Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335	[1] [2]
3-Isocyanatomethyl- 3,5,5-trimethylcyclohexyl isocyanate, oligomers	REACH #: 01-2119488734-24 EC: 500-125-5 CAS: 53880-05-0	≤3	Skin Sens. 1B, H317 STOT SE 3, H335	[1]
tris(2-methoxyethoxy) vinylsilane	EC: 213-934-0 CAS: 1067-53-4	≤0,3	Repr. 2, H361f (Fertility)	[1]
,	5.15.133.33		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
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery

position and seek medical advice.

Eye contact : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Date of issue/Date of revision : 17/03/2020 Date of previous issue : 17/03/2020 Version : 2 3/18

SECTION 4: First aid measures

Skin contact

: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

Ingestion

If swallowed, seek medical advice immediately and show the container or label.

Keep person warm and at rest. Do NOT induce vomiting.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. 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

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatique, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in nonallergic contact dermatitis and absorption through the skin. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eve contact.

Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitisation of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Repeated or prolonged contact with irritants may cause dermatitis.

Contains 1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate, hexamethylene-1,6-diisocyanate oligomer (type uretdione), polyhexamethylene diisocyanate, 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers. May produce an allergic reaction.

Over-exposure signs/symptoms

Eye contact : No specific data. Inhalation : No specific data.

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.

See toxicological information (Section 11)

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media

: Recommended: alcohol-resistant foam, CO2. powders, water spray or mist.

Unsuitable extinguishing

media

: Do not use water jet.

Date of issue/Date of revision : 17/03/2020 Date of previous issue : 17/03/2020 Version: 2 4/18

SECTION 5: Firefighting measures

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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : Decomposition products may include the following materials: carbon dioxide

carbon monoxide nitrogen oxides sulfur oxides

halogenated compounds metal oxide/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.

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: 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). Water polluting material. May be harmful to the environment if released in large quantities.

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.

Date of issue/Date of revision : 17/03/2020 Date of previous issue : 17/03/2020 Version: 2 5/18

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance.

Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.

Examination of lung function should be carried out on a regular basis on persons spraying this mixture.

7.1 Precautions for safe handling

: Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.

Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Care should be taken when re-opening partly-used containers. 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. Keep away from heat, sparks and flame. No sparking tools should be used.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

Do not allow to enter drains or watercourses.

Information on fire and explosion protection

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep container tightly closed.

Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

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

Date of issue/Date of revision : 17/03/2020 Date of previous issue : 17/03/2020 Version : 2 6/18

SECTION 8: Exposure controls/personal protection

Product/ingredient name	Exposure limit values
hexamethylene-1,6-diisocyanate oligomer (type uretdione)	EH40/2005 WELs (United Kingdom (UK), 12/2011). Inhalation sensitiser. STEL: 0,07 mg/m³, (as NCO) 15 minutes.
polyhexamethylene diisocyanate	TWA: 0,02 mg/m³, (as NCO) 8 hours. EH40/2005 WELs (United Kingdom (UK), 12/2011). Inhalation sensitiser. STEL: 0,07 mg/m³, (as NCO) 15 minutes. TWA: 0,02 mg/m³, (as NCO) 8 hours.

procedures

Recommended monitoring: 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	Type	Exposure	Value	Population	Effects
hexamethylene-1,6-diisocyanate oligomer (type uretdione)	DNEL	Short term Inhalation	0,7 mg/m³	Workers	Local
	DNEL	Long term Inhalation	0,35 mg/m ³	Workers	Local
(bis(isopropyl)naphthalene)	DNEL	Long term Oral	2,1 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Dermal	2,1 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	7,4 mg/m³	General population [Consumers]	Systemic
	DNEL	Long term Dermal	4,3 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	30 mg/m³	Workers	Systemic
polyhexamethylene diisocyanate	DNEL	Short term Inhalation	1 mg/m³	Workers	Local
	DNEL	Long term Inhalation	0,5 mg/m³	Workers	Local

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
hexamethylene-1,6-diisocyanate oligomer (type uretdione)	Fresh water	>0,05 mg/l	-
,	Marine	>0,005 mg/l	-
	Fresh water sediment	>1,33 mg/kg dwt	-
	Marine water sediment	>0,133 mg/kg dwt	-
	Soil	>0,066 mg/kg dwt	-
	Sewage Treatment Plant	55,6 mg/l	-
(bis(isopropyl)naphthalene)	Sewage Treatment Plant	0,15 mg/l	-
	Fresh water	0,26 μg/l	-

Date of issue/Date of revision : 17/03/2020 Date of previous issue : 17/03/2020 Version: 2

SECTION 8: Exposure controls/personal protection

	Marine	0,026 μg/l	-
	Fresh water sediment	0,94 mg/kg dwt	-
	Marine water sediment	0,094 mg/kg dwt	-
	Soil	0,19 mg/kg dwt	-
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	· ·	

8.2 Exposure controls

Appropriate engineering controls

: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. Air-fed protective respiratory equipment must be worn by the spray operator, even when good ventilation is provided. In other operations, if local exhaust ventilation and good general extraction are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn. (See Occupational exposure controls.)

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. 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. (EN 166)

Skin protection

Hand 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.

Gloves

: For prolonged or repeated handling, use the following type of gloves:

Recommended: > 8 hours (breakthrough time): neoprene (0.65mm) or Butyl rubber gloves (0.60mm).

The recommendation for the type or types of glove to use when handling this product is based on information from the following source:

EN 374

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.

Date of issue/Date of revision : 17/03/2020 Date of previous issue : 17/03/2020 Version : 2 8/18

SECTION 8: Exposure controls/personal protection

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.

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

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid.

Colour : Not available. Odour Not available. **Odour threshold** Not available. pH : Not applicable. Melting point/freezing point : Not available. Not available.

Initial boiling point and

boiling range

: Closed cup: 102°C Flash point : Not available. **Evaporation rate** Flammability (solid, gas) : Not available. Upper/lower flammability or Not available.

explosive limits

Vapour pressure : Not available. : Not available. Vapour density

Relative density

: Not available. Solubility(ies) Partition coefficient: n-octanol/ : Not available.

water

: Not available. **Auto-ignition temperature Decomposition temperature** : Not available.

: Dynamic (room temperature): 10000 mPa·s **Viscosity**

Explosive properties : Non-explosive in the presence of the following materials or conditions: open

flames, sparks and static discharge and heat.

Oxidising properties : Not available.

9.2 Other information

No additional information.

Date of issue/Date of revision : 17/03/2020 Date of previous issue : 17/03/2020 Version : 2 9/18

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

: Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

: In a fire, hazardous decomposition products may be produced.

10.5 Incompatible materials

: Keep away from: oxidising agents, strong alkalis, strong acids, amines, alcohols, water. Uncontrolled exothermic reactions occur with amines and alcohols.

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced. If involved in a fire, toxic gases including CO, CO2 and smoke can be generated.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
propylene carbonate	LD50 Oral	Rat	>5000 mg/kg	-
hexamethylene-	LC50 Inhalation Dusts and	Rat	158 mg/m³	4 hours
1,6-diisocyanate oligomer (type uretdione)	mists			
	LD50 Oral	Rat	>5000 mg/kg	-
(bis(isopropyl)naphthalene)	LC50 Inhalation Vapour	Rat	5,64 mg/l	4 hours
	LD50 Dermal	Rat	>4500 mg/kg	-
	LD50 Oral	Rat	>4000 mg/kg	-
polyhexamethylene	LC50 Inhalation Dusts and	Rat	18500 mg/m ³	1 hours
diisocyanate	mists			
	LC50 Inhalation Dusts and	Rat - Female	0,39 mg/m³	4 hours
	mists			
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
3-Isocyanatomethyl-	LC50 Inhalation Dusts and	Rat	>5,01 mg/l	4 hours
3,5,5-trimethylcyclohexyl	mists			
isocyanate, oligomers				
	LD50 Oral	Rat	>5000 mg/kg	-
tris(2-methoxyethoxy) vinylsilane	LD50 Oral	Rat	2960 mg/kg	-

Conclusion/Summary
Acute toxicity estimates

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

Not available.

Irritation/Corrosion

Date of issue/Date of revision : 17/03/2020 Date of previous issue : 17/03/2020 Version : 2 10/18

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-ethylhexyl (3-isocyanatomethylphenyl)- carbamate	Eyes - Severe irritant	Rabbit	-	24 hours 100 microliters	-
propylene carbonate	Eyes - Moderate irritant	Rabbit	-	60 milligrams	-
	Skin - Moderate irritant	Human	-	72 hours 100 milligrams Intermittent	-
	Skin - Moderate irritant	Rabbit	-	500 milligrams	-
hexamethylene- 1,6-diisocyanate oligomer (type uretdione)	Skin - Oedema	Rabbit	1	4 hours	-
	Eyes - Cornea opacity	Rabbit	1	-	-
(bis(isopropyl)naphthalene)	Skin - Oedema	Rabbit	0	-	-
	Eyes - Cornea opacity	Rabbit	0	-	-
polyhexamethylene diisocyanate	Skin - Oedema	Rabbit	1	4 hours	-
	Eyes - Cornea opacity	Rabbit	1	-	-
	Eyes - Moderate irritant	Rabbit	-	100 milligrams	-
	Skin - Moderate irritant	Rabbit	-	500 milligrams	-
3-Isocyanatomethyl- 3,5,5-trimethylcyclohexyl isocyanate, oligomers	Skin - Oedema	Rabbit	0	-	-
	Eyes - Cornea opacity	Rabbit	1	-	-
tris(2-methoxyethoxy) vinylsilane	Skin - Mild irritant	Rabbit	-	500 milligrams	-

Conclusion/Summary

Skin
 Based on available data, the classification criteria are not met.
 Eyes
 Based on available data, the classification criteria are not met.
 Respiratory
 Based on available data, the classification criteria are not met.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
1,6-hexanediyl-bis(2-(2- (1-ethylpentyl) -3-oxazolidinyl)ethyl) carbamate	skin	Guinea pig	Sensitising
hexamethylene- 1,6-diisocyanate oligomer (type uretdione)	skin	Guinea pig	Sensitising
(bis(isopropyl)naphthalene)	skin	Guinea pig	Not sensitizing
polyhexamethylene diisocyanate	skin	Guinea pig	Sensitising
	Respiratory	Guinea pig	Not sensitizing
	skin	Mouse	Sensitising
3-Isocyanatomethyl- 3,5,5-trimethylcyclohexyl isocyanate, oligomers	skin	Rabbit	Sensitising
	skin	Mouse	Sensitising
	skin	Guinea pig	Sensitising

Conclusion/Summary

Skin : May cause an allergic skin reaction.

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

Mutagenicity

Date of issue/Date of revision : 17/03/2020 Date of previous issue : 17/03/2020 Version : 2 11/18

SECTION 11: Toxicological information

Product/ingredient name	Test	Experiment	Result
hexamethylene- 1,6-diisocyanate oligomer (type uretdione)	OECD 476	Subject: Mammalian-Animal	Positive
,	OECD 471	Subject: Bacteria	Negative
(bis(isopropyl)naphthalene)	OECD 471	Experiment: In vitro Subject: Bacteria	Negative
	OECD 473+476	Experiment: In vitro Subject: Mammalian-Animal	Negative
polyhexamethylene diisocyanate	OECD 471	Subject: Bacteria	Negative
	OECD 476	Subject: Mammalian-Animal	Negative
3-Isocyanatomethyl- 3,5,5-trimethylcyclohexyl isocyanate, oligomers	OECD 471	Experiment: In vitro Subject: Bacteria	Negative
	OECD 473	Experiment: In vitro Subject: Mammalian-Animal	Negative

Conclusion/Summary

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

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
(bis(isopropyl)naphthalene)	Negative - Route of exposure unreported - TD	Rat	-	-

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.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
hexamethylene-1,6-diisocyanate oligomer (type uretdione)	Category 3		Respiratory tract irritation
polyhexamethylene diisocyanate	Category 3		Respiratory tract irritation
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Product/ingredient name	Result
(bis(isopropyl)naphthalene)	ASPIRATION HAZARD - Category 1

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Date of issue/Date of revision : 17/03/2020 Date of previous issue : 17/03/2020 Version : 2 12/18

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
hexamethylene- 1,6-diisocyanate oligomer (type uretdione)	Sub-acute NOAEL Inhalation Dusts and mists	Rat	0,41 mg/m³	6 hours; 5 days per week Intermittent
(bis(isopropyl)naphthalene)	Chronic NOAEL Oral	Rat	170 mg/kg	6 months
polyhexamethylene diisocyanate	Chronic NOAEL Inhalation Dusts and mists	Rat	3,3 mg/m ³	6 hours; 5 days per week Intermittent
	Sub-acute LCLo Inhalation Dusts and mists	Rat	4,3 mg/m³	6 hours; 5 days per week Intermittent
	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

Conclusion/Summary

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

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

Carcinogenicity
Mutagenicity
Teratogenicity
Developmental effects

Fertility effects

: No known significant effects or critical hazards.

: No known significant effects or critical hazards.

No known significant effects or critical hazards.No known significant effects or critical hazards.

: No known significant effects or critical hazards.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself.

Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
hexamethylene- 1,6-diisocyanate oligomer (type uretdione)	Acute EC50 5560 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
(bis(isopropyl)naphthalene)	Acute EC10 >0,15 mg/l	Algae	72 hours
	Acute EC10 >0,16 mg/l	Daphnia spec.	48 hours
	Acute LC10 >0,5 mg/l	Fish	96 hours
	Acute NOEC >0,013 mg/l	Daphnia spec.	21 days
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

Conclusion/Summary

: Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Date of issue/Date of revision : 17/03/2020 Date of previous issue : 17/03/2020 Version : 2 13/18

SECTION 12: Ecological information

Product/ingredient name	Test	Result	Dose	Inoculum
propylene carbonate	OECD 301B	83,5 to 87,7 % - 29 days	-	-
hexamethylene-	OECD 302C	18 % - Not readily - 28 days	-	-
1,6-diisocyanate oligomer				
(type uretdione)				
	OECD 301C	1 % - Not readily - 28 days	-	-
	-	1 % - Not readily - 21 days	-	-
polyhexamethylene	OECD 301C	2 % - Not readily - 28 days	-	-
diisocyanate				
3-Isocyanatomethyl-	OECD 301F	0 % - Not readily - 28 days	-	-
3,5,5-trimethylcyclohexyl				
isocyanate, oligomers				

Conclusion/Summary

: Based on available data, the classification criteria are not met. This product has not been tested for biodegradation.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
hexamethylene- 1,6-diisocyanate oligomer (type uretdione)	Fresh water 0,25 days, 23°C	50%; 0.03 day(s)	Not readily
(bis(isopropyl)naphthalene) polyhexamethylene diisocyanate 3-lsocyanatomethyl- 3,5,5-trimethylcyclohexyl isocyanate, oligomers	Fresh water 2,5 days, 20°C Fresh water 0,32 days, 23°C	>70%; < 28 day(s) 50%; 0.49 day(s) -	Readily Not readily Not readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-ethylhexyl (3-isocyanatomethylphenyl)- carbamate	5,6	-	high
propylene carbonate	-0,41	-	low
hexamethylene- 1,6-diisocyanate oligomer	-	788	high
(type uretdione)	6.004	1000 to 6400	h: ah
(bis(isopropyl)naphthalene)	6,081	1800 to 6400	high
polyhexamethylene diisocyanate	8,38	706	high
tris(2-methoxyethoxy) vinylsilane	0,26	-	low

12.4 Mobility in soil

Soil/water partition : No coefficient (Koc)

: Not available.

Mobility : Nonvolatile liquid.

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 Other adverse effects: No known significant effects or critical hazards.

Date of issue/Date of revision : 17/03/2020 Date of previous issue : 17/03/2020 Version : 2 14/18

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 nonrecyclable 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

Disposal considerations

: Do not allow to enter drains or watercourses. Residues in empty containers should be neutralised with a decontaminant (see section 6).

Dispose of according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no

longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

Packaging

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Disposal considerations

: Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.

Empty containers must be scrapped or reconditioned.

Dispose of containers contaminated by the product in accordance with local or

national legal provisions.

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	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2016/918

Elastadeck Walkway Gritcoat Base **SECTION 14: Transport information Additional** information

14.6 Special precautions for

: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: For professional use only.

Other EU regulations

: The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the VOC

product label and/or technical data sheet for further information.

VOC for Ready-for-Use

Mixture

: 2004/42/EC - IIA/j: 500g/l (2010). <= 170g/l VOC.

Europe inventory : All components are listed or exempted.

Black List Chemicals

(76/464/EEC)

Product/ingredient name	Carcinogenic effects	•	Developmental effects	Fertility effects
tris(2-methoxyethoxy) vinylsilane	-	-	-	Repr. 2, H361f (Fertility)

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply

to the use of this product at work.

EH40/2005 Workplace exposure limits References

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

Regulation (EU) No. 2016/918

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Date of issue/Date of revision : 17/03/2020 Date of previous issue : 17/03/2020 Version : 2 16/18

SECTION 15: Regulatory information

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

CN code : 3208 90 91

International lists

National inventory

Australia : At least one component is not listed.

Canada : Not determined.

China : At least one component is not listed.

Japan : Japan inventory (ENCS): At least one component is not listed.

Japan inventory (ISHL): At least one component is not listed.

Malaysia : Not determined

New Zealand: At least one component is not listed.Philippines: At least one component is not listed.Republic of Korea: At least one component is not listed.Taiwan: At least one component is not listed.

Turkey : Not determined.
United States : Not determined.
Thailand : Not determined.
Viet Nam : Not determined.

15.2 Chemical safety

assessment

: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

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
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
	Expert judgment Expert judgment

Full text of H-phrases referred to in sections 2 and 3

Date of issue/Date of revision : 17/03/2020 Date of previous issue : 17/03/2020 Version : 2 17/18

SECTION 16: Other information

Full text of abbreviated	Ηt
statements	

H304 H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H331 H332 H335 H335 May cause respiratory irritation. H361f Suspected of damaging fertility. H410 Very toxic to aquatic life with long lasting effects.	H412 Harmful to aquatic life with long lasting effects.
---	---

Full text of classifications [CLP/GHS]

П4 12	Harmful to aquatic life with long fasting effects.
Acute Tox. 3, H331 Acute Tox. 4, H332	ACUTE TOXICITY (inhalation) - Category 3 ACUTE TOXICITY (inhalation) - Category 4
•	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 3, H412	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1, H304	ASPIRATION HAZARD - Category 1
Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Repr. 2, H361f	REPRODUCTIVE TOXICITY (Fertility) - Category 2
Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1, H317	SKIN SENSITISATION - Category 1
Skin Sens. 1B, H317	SKIN SENSITISATION - Category 1B
STOT SE 3, H335	SPECIFIC TARGET ORGAN TOXICITY - SINGLE
	EXPOSURE (Respiratory tract irritation) - Category 3

Date of printing

Date of issue/ Date of

revision

: 18/03/2020 : 17/03/2020

Date of previous issue : 17/03/2020

Version : 2

Notice to reader

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 product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.

Date of issue/Date of revision : 17/03/2020 Date of previous issue : 17/03/2020 Version : 2 18/18