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1. IDENTIFICATION OF THE SUBSTRATE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name/designation: Caltech Fibreforce Mid Grey.

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

Relevant identified uses: Paint Coating.

Recommended restrictions: Reserved for industrial and professional use.

1.3 Supplier details

Alumasc Building Products Ltd

White House Works, Bold Road, Sutton, St Helens, Merseyside, United Kingdom, WA9 4JG

Tel: +44 (0)1744 648400

e-mail: technical@alumascroofing.com

1.4 Emergency telephone number

Association / Organisation:National Poisons Information Service
Emergency telephone numbers:0344 892 0111 (Healthcare professionals only)
Other emergency telephone numbersAlumasc Building Products: +44 17 4464 8400
(Mon-Thurs – 08.30-17.00 Fri – 08.30-16.00)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP][1]:

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.

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

2.2 Label elements

Hazard pictures:



Signal word: Warning.

Hazardous component(s) to be

indicated on label: 1,6-Hexanediyl-

 $\hbox{1,6-Hexane diyl-Bis (2-(2-(1-Ethylpentyl)-3-Oxazolidinyl) Ethyl) Carbamate.}\\$

Hexamethylene-1,6-Diisocyanate Oligomer (Type Uretdione). Polyhexamethylene Diisocyanate.

3-Isocyanatomethyl-3,5,5-Trimethylcyclohexyl Isocyanate, Oligomers.

2-Ethylhexanal.

3-Isocyanatomethyl-3,5,5-Trimethylcyclohexyl Isocyanate.

Maleic Anhydride.

Hazard statements: H317 - May cause an allergic skin reaction.

H412 - Harmful to aquatic life with long lasting effects.

Supplementary statements: EUH204 - Contains isocyanates. May produce an allergic reaction.

EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed.

Do not breathe spray or mist.

Precautionary statements prevention: P280 - Wear protective gloves.

P284 - In case of inadequate ventilation wear respiratory protection.

Precautionary statements response: P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

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Precautionary statements storage: Not applicable.

Precautionary statements disposal: P501: Dispose of contents/container to authorised hazardous or special waste collection

point in accordance with any local regulation.

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:

As from August 24 2023 adequate training is required before industrial or professional use.

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.

3. COMPOSITION AND INFORMATION ABOUT THE COMPONENTS

3.1 Substances

See 'Composition on ingredients' in Section 3.2.

3.2 Mixtures

United Kingdom: Great Britain:

Ingredient	Numbers	Classification (EC) 1272/2008	Concentration	Specific Conc. Limits, M-factors and ATEs	Туре
1,6-Hexanediyl-Bis (2-(2- (1-Ethylpentyl) – 3-Oxazolidinyl)Ethyl) Carbamate	EC: 411-700-4 CAS: 140921-24-0 Index: 616-079-00-5	Skin Sens. 1, H317	≤10	3	[1]
Solvent Naphtha (Petroleum), Light Arom	REACH #: 01-2119455851-35 EC: 265-199-0 CAS: 64742-95-6 Index: 649-356-00-4	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	≤5		[1]
Propylene Carbonate	EC: 203-572-1 CAS: 108-32-7 Index: 607-194-00-1	Eye Irrit. 2, H319	≤5	- 7	[1]
Reaction Mass Of 2- Ethylhexyl (3- Isocyanato-4- Methylphenyl) Carbamateand 2- Ethylhexyl (5-Isocyanato-2- Methylphenyl) Carbamateand 2- Ethylhexyl (3-Isocyanato-2- Methylphenyl) Carbamate	REACH #: 01-2120800690-65	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Repr. 2, H361fd Aquatic Chronic 4, H413	≤3		[1]

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Ingredient	Numbers	Classification (EC) 1272/2008	Concentration	Specific Conc. Limits, M-factors and ATEs	Туре
Hexamethylene- 1,6-Diisocyanate Oligomer (Type Uretdione)	REACH #: 01-2119488177-26 CAS: 28182-81-2	Acute Tox. 3, H331 Skin Sens. 1, H317 STOT SE 3, H335	≤3	ATE [Inhalation (dusts and mists)] = 0,5 mg/I	[1] [2]
Polyhexamethylene Diisocyanate	REACH #: 01-2119485796-17 CAS: 28182-81-2	Acute Tox. 3, H331 Skin Sens. 1, H317 STOT SE 3, H335	≤3	ATE [Inhalation (dusts and mists)] = 1,5 mg/I	[1] [2]
3-Isocyanatomethyl- 3,5,5- Trimethylcyclohexyl Isocyanate, Oligomers	REACH #: 01-2119488734-24 EC: 500-125-5 CAS: 53880-05-0	Skin Sens. 1B, H317 STOT SE 3, H335	≤3	-	[1] [2]
(Bis(IsopropyI) Naphthalene)	REACH #: 01-2119565150-48 EC: 254-052-6 CAS: 38640-62-9	Asp. Tox. 1, H304 Aquatic Chronic 1, H410	≤3	M [Chronic] = 1	[1]
2-Ethylhexanal	EC: 204-596-5 CAS: 123-05-7	Flam. Liq. 3, H226 Skin Sens. 1B, H317 Repr. 2, H361	≤0,3	-	
3-lsocyanatomethyl- 3,5,5- Trimethylcyclohexyl Isocyanate	EC: 223-861-6 CAS: 4098-71-9 Index: 615-008-00-5	Acute Tox. 1, H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 2,	≤0,1	ATE [Inhalation (dusts and mists)] = 0,031 mg/l Resp. Sens. 1, H334: $C \ge 0,5\%$ Skin Sens. 1, H317: $C \ge 0,5\%$	[1] [2]
Maleic Anhydride	REACH #: 01-2119472428-31 EC: 203-571-6 CAS: 108-31-6 Index: 607-096-00-9	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317 STOT RE 1, H372 (inhalation) EUH071	≤0,1	ATE [Oral] = 400 mg/kg Skin Sens. 1, H317: C≥0,001%	[1] [2]
See Section 16 for the	full text of the H staten	nents 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.

Type:

[1] Substance classified with a health or environmental hazard.

List numbers have no legal significance.

This mixture contains ≥ 1% of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

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

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.

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.

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Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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 adverse health effects persist or are severe. 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

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. 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: 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.

5. FIRE-FIGHTING MEASSURES

5.1 Extinguishing media

Suitable extinguishing media:

Use an extinguishing agent suitable for the surrounding fire.

Extinguishing media which must not be used for safety reasons:

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.

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 combustion products:

Decomposition products may include the following materials:

- Carbon Dioxide
- Carbon Monoxide
- Nitrogen Oxides
- Sulfur Oxides
- Halogenated Compounds
- Metal Oxide/Oxides

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5.3 Advice for fire-fighters

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 facepiece 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.

6. ACCIDENTIAL 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.

7. HANDLING AND STORAGE

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. Avoid release to the environment. 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.

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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. 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)

Recommendation:

Not available.

Industrial sector specific solutions:

Not available.

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 / Biological exposure indices:

United Kingdom: Great Britain:

Product/ingredient name	Exposure limit values
Hexamethylene-1,6-Diisocyanate Oligomer (type	EH40/2005 WELs (United Kingdom (UK), 1/2020). Inhalation sensitiser.
Uretdione)	STEL: 0,07 mg/m³, (as -NCO) 15 minutes.
	TWA: 0,02 mg/m³, (as -NCO) 8 hours.
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.
3-Isocyanatomethyl-3,5,5-Trimethylcyclohexyl	EH40/2005 WELs (United Kingdom (UK), 1/2020). Inhalation sensitiser.
Isocyanate, Oligomers	STEL: 0,07 mg/m³, (as -NCO) 15 minutes.
	TWA: 0,02 mg/m³, (as -NCO) 8 hours.

Recommended monitoring procedures:

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
Solvent Naphtha (Petroleum),	DNEL	Long term Dermal	25 mg/kg	Workers	Systemic
Light Arom.	DNEL	Long term Inhalation	150 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	11 mg/kg	General population	Systemic
	DNEL	Long term Inhalation	32 mg/m³	General population	Systemic
	DNEL	Long term Oral	11 mg/kg	General population	Systemic
	DNEL	Short term Inhalation	0,7 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	0,35 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	1 mg/m³	Workers	Local
	DNEL	Long term Inhalation	0,5 mg/m ³	Workers	Local
	DNEL	Long term Oral	2,1 mg/kg	General population	Systemic
			bw/day	[Consumers]	
Hexamethylene-1,6-Diisocyanate					
Oligomer (Type Uretdione)	DNEL	Long term Dermal	2,1 mg/kg	General population	Systemic
			bw/day	[Consumers]	

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Product/ingredient name	Туре	Exposure	Value	Population	Effects
Polyhexamethylene Diisocyanate	DNEL	Long term Inhalation	7,4 mg/m³	General population [Consumers]	Systemic
Bis(IsopropyI)Naphthalene)	DNEL DNEL DNEL DNEL	Long term Dermal Long term Inhalation Short term Inhalation Short term Dermal	4,3 mg/kg bw/day 30 mg/m³ 0,8 mg/m³ 0,04 mg/kg	Workers Workers Workers Workers	Systemic Systemic Systemic Systemic
Maleic Anhydride	DNEL	Long term Inhalation	0,4 mg/m ³	Workers	Systemic

PNECs:

Product/ingredient name	Compartment Detail	Value	Method Detail
Hexamethylene-1,6-Diisocyanate Oligomer	Fresh water	>0,05 mg/l	-
(Type Uretdione)	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	-
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		
	plant	38,28 mg/l	-
	Sewage treatment		
	plant	0,15 mg/l	
(Bis(Isopropyl)Naphthalene)	Fresh water	0,26 µg/l	
	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	-
	Fresh water	0,04281 mg/l	
Maleic Anhydride	Marine water	0,004281 mg/l	200
	Soil	0,0415 mg/l	-
	Fresh water sediment	0,334 mg/kg	- 1
	Marine water sediment	0,0334 mg/kg	-
	Sewage Treatment		
	Plant	44,6 mg/l	-

8.2 Exposure controls

8.2.1. Appropriate engineering Controls:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
8.2.2. Personal protection:	
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.

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Eye and 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.
Hands 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): nitrile rubber (0.5mm) gloves 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Important health, safety and environmental information

Physical state:LiquidColour:GreyForm:LiquidRelative density [g/cm³]
Temperature [°C]:Not available

 Odour:
 Not available
 Density:
 1,38 to 1,428 g/cm³ [20°C (68°F)] [DIN 53217]

Odour threshold:Not availablePartition coefficient n-octanol/water:Not applicablepH:Not applicableAuto-ignition temperature (°C):Not relevant due to nature of the product

pH: Justification:

Product is non-soluble (in water)

Pecomposition temperature: Not available

Dynamic: 15000 mPa·s [DIN EN ISO 3219]

Kinematic: 10504 to 10870 mm2/s

[calculated]

Melting point/freezing point (°C): Not determined

Viscosity (cSt): Kinematic

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Initial boiling point and boiling

range (°C):

Not relevant due to nature of the product

Flash point (°C): Closed cup: 102°C (215,6°F) [Literature]

Evaporation rate [kg/(s m²)]:Not available **Explosion limits [Vol-%]:**Not available

Flammability (solid, gas):

Lower Explosive Limit (%):

Upper Explosive Limit (%):

Not available

Not available

Explosive properties: Not available

Vapour pressure (kPa): <0,13 kPa (<1 mm Hg)
[Literature]

Vapour density (Air = 1): Not available

Solubility in water [g/l]:Not available

Cold water Not soluble
Hot water Not soluble
Particle size: Not applicable

10. STABILITY AND REACTIVITY

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

Not available

10.2 Chemical stability

Oxidising properties:

The product is stable.

10.3 Possibility of hazardous reactions

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

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.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

Product/ingredient name	Result	Species	Dose	Exposure
Solvent Naphtha	LD50 Oral	Rat	8400 mg/kg	-
(Petroleum), Light Arom.				
Propylene Carbonate	LD50 Oral	Rat	>5000 mg/kg	-
Hexamethylene-	LC50 Inhalation dusts and	Rat	18500 mg/m³	1 hours
1,6-Diisocyanate Oligomer	mists			
(Type Uretdione)				
	LC50 Inhalation dusts and	Rat	0,158 mg/l	4 hours
Polyhexamethylene	mists			
Diisocyanate	LD50 Oral	Rat	>5000 mg/kg	1
	LC50 Inhalation dusts and	Rat – female	0,39 mg/l	4 hours
	mists			
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Dermal	Rat	>2000 mg/kg	-
2 1 1 1 - 1	LD50 Oral	Rat	>5000 mg/kg	-
3-Isocyanatomethyl-	LC50 Inhalation dusts and	Rat	>5 mg/l	4 hours
3,5,5-Trimethylcyclohexyl	mists			
Isocyanate, Oligomers	1050000	Dark	. 5000	
(Dis/leapreps/JA) leapth along)	LD50 Oral	Rat	>5000 mg/kg	41
(Bis(Isopropyl)Naphthalene)	LC50 Inhalation vapour	Rat	5,64 mg/l	4 hours
	LD50 Dermai	Rat	>4500 mg/kg	-
2 Ethylhovanal	LD50 Ordi LD50 Dermal	Rat Balbit	>4000 mg/kg	-
2-Ethylhexanal	LD50 Dermai	Rabbit	4135 mg/kg	-
3-Isocyanatomethyl-	LC50 Inhalation dusts and	Rat	2600 mg/kg	- 4 lp ou ma
3,5,5-Trimethylcyclohexyl	mists	Rat	0,031 mg/l	4 hours
Isocyanate	1111515			
Maleic Anhydride	LD50 Dermal	Rabbit	2420 ma/kg	
Maicie Alliyanae	LD50 Definal	Rabbit	2620 mg/kg 400 mg/kg	-
	LD30 OIGI	KUI	400 mg/kg	-

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Conclusion/Summary:

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

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)
Solvent Naphtha (Petroleum), Light Arom.	8400	N/A	N/A	N/A	N/A
Hexamethylene-1,6-Diisocyanate Oligomer (Type Uretdione)	N/A	N/A	N/A	N/A	0,5
Polyhexamethylene Diisocyanate	N/A	N/A	N/A	N/A	1,5
2-Ethylhexanal	2600	4135	N/A	N/A	N/A
3-lsocyanatomethyl-3,5,5-Trimethylcyclohexyl lsocyanate	N/A	N/A	N/A	N/A	0,031
Maleic Anhydride	400	2620	N/A	N/A	N/A

Irritation/Corrosion:

Product/ingredient name	Result	Species	Score	Exposure	Observation
Solvent Naphtha (Petroleum),	Eyes - Mild irritant	Rabbit	-	24 hours 100	-
Light Arom.				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-	Eyes - Cornea opacity	Rabbit	1	-	-
1,6-Diisocyanate Oligomer	Skin - Oedema	Rabbit	1	4 hours	-
(Type Uretdione)	Eyes - Cornea opacity	Rabbit	1	-	-
, , ,					
	Eyes - Moderate irritant	Rabbit	-,-	100	-
Polyhexamethylene				milligrams	-
Diisocyanate	Skin - Oedema	Rabbit	1	4 hours	-
·	Skin - Moderate irritant	Rabbit	-	500	- 160
3-Isocyanatomethyl-				milligrams	
3,5,5-Trimethylcyclohexyl	Eyes - Cornea opacity	Rabbit	1	-	-
socyanate, Oligomers					
,	Skin - Oedema	Rabbit	0	-	-
(Bis(Isopropyl)Naphthalene)	Eyes - Cornea opacity	Rabbit	0	-	-
	Skin - Oedema	Rabbit	0	-	-
2-Ethylhexanal	Skin - Mild irritant	Rabbit	-	425	
•				milligrams	
Maleic Anhydride	Eyes - Severe irritant	Rabbit	-	1 Percent	-

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
Hexamethylene-	Skin	Guinea pig	Sensitising
1,6-Diisocyanate Oligomer	N N		
(Type Uretdione)			
Polyhexamethylene	Respiratory	Guinea pig	Not Sensitising
Diisocyanate	Skin	Guinea pig	Sensitising
	Skin	Mouse	Sensitising
3-Isocyanatomethyl-	Skin	Guinea pig	Sensitising
3,5,5-Trimethylcyclohexyl			
Isocyanate, Oligomers			
	Skin	Mouse	Sensitising
	Skin	Rabbit	Sensitising
(Bis(Isopropyl)Naphthalene)	Skin	Guinea pig	Not sensitizing

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Conclusion/Summary:

Skin: May cause an allergic skin reaction.

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

Mutagenicity:

Product/ingredient name	Test	Experiment	Result
Hexamethylene-	OECD 476	Subject: Mammalian-Animal	Positive
1,6-Diisocyanate Oligomer			
(Type Uretdione)			
,	OECD 471	Subject: Bacteria	Negative
Polyhexamethylene	OECD 471	Subject: Bacteria	Negative
Diisocyanate			
	OECD 476	Subject: Mammalian-Animal	Negative
3-Isocyanatomethyl-	OECD 471	Experiment: In vitro	Negative
3,5,5-Trimethylcyclohexyl		Subject: Bacteria	
Isocyanate, Oligomers			
,	OECD 473	Experiment: In vitro	Negative
		Subject: Mammalian-Animal	
(Bis(Isopropyl)Naphthalene)	OECD 471	Experiment: In vitro	Negative
		Subject: Bacteria	

Conclusion/Summary:

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

Carcinogenicity:

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

Product/ingredient name	Result	Species	Dose	Exposure
(Bis(Isopropyl)Naphthalene)	Negative - Route of exposure	Rat	-	-
	unreported - TD			

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
Solvent Naphtha (Petroleum), Light Arom.	Category 3		Respiratory tract irritation
	Category 3		Narcotic effects
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		Respiratory tract irritation
3-Isocyanatomethyl-3,5,5-Trimethylcyclohexyl Isocyanate	Category 3		Respiratory tract irritation

Specific target organ toxicity (repeated exposure):

Product/ingredient name	Category	Route of exposure	Target organs
Maleic Anhydride	Category 1	Inhalation	=

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Aspiration hazard:

Product/ingredient name	Result	
Solvent Naphtha (Petroleum), Light Arom.	ASPIRATION HAZARD - Category 1	
(Bis(Isopropyl)Naphthalene)	ASPIRATION HAZARD - Category 1	

Information on likely routes: of exposure:

Not available.

Potential acute health effects:

Eye contact: No known significant effects or critical hazards. Inhalation: No known significant effects or critical hazards.

Skin contact: May cause an allergic skin reaction.

Ingestion: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics:

Eye contact: No specific data. inhalation: No specific data.

Skin contact: Adverse symptoms may include the following:

Irritation Redness

Ingestion: No specific data.

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

Short term exposure:

Potential immediate effects: Not available. Potential delayed effects: Not available.

Long term exposure:

Potential immediate effects: Not available. Potential delayed effects: Not available.

Potential chronic health effects:

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
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/m³	6 hours; 5 days per week Intermittent
	Chronic NOAEL Inhalation dusts and mists	Rat	3,3 mg/m³	6 hours; 5 days per week Intermittent
(Bis(Isopropyl)Naphthalene)	Chronic NOAEL Oral	Rat	170 mg/kg	6 months

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: No known significant effects or critical hazards. Mutagenicity: No known significant effects or critical hazards. Reproductive toxicity: No known significant effects or critical hazards.

11.2 Additional information

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

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12. ECOLOGICAL INFORMATION

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Hexamethylene-	Acute EC50 5560 mg/l	Bacteria	3 hours
1,6-Diisocyanate Oligomer			
(Type Uretdione)	Acute EC50 > 100 mg/l	Daphnia spec.	48 hours
,	Acute IC50 > 1000 mg/l	Algae - Scenedesmus	72 hours
		subspicatus	
	Acute LC50 >100 mg/l	Fish	96 hours
Polyhexamethylene	Acute EC50 > 10000 mg/l	Bacteria	3 hours
Diisocyanate		Daphnia spec.	48 hours
	Acute EC50 > 100 mg/l	Algae - Scenedesmus	72 hours
	Acute IC50 > 1000 mg/l	subspicatus	
		Fish	96 hours
	Acute LC50 >100 mg/l	Algae	72 hours
(Bis(Isopropyl)Naphthalene)	Acute EC10 >0,15 mg/l	Daphnia spec.	48 hours
, , , , , , , , , , , , , , , , , , , ,	Acute EC10 >0,16 mg/l	Fish	96 hours
	Acute LC10 >0,5 mg/l	Daphnia spec.	21 days
	Acute NOEC >0,013 mg/l	Fish - Gambusia affinis - Adult	96 hours
Maleic Anhydride	Acute LC50 230000 µg/l Fresh water		

Conclusion/Summary:

Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

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-lsocyanatomethyl-	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.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Solvent Naphtha (Petroleum),	-		Readily
Light Arom.			
Hexamethylene-	Fresh water 0,25 days, 23°C	50%; 0.03 day(s)	Not readily
1,6-Diisocyanate Oligomer			
(Type Uretdione)			
Polyhexamethylene	Fresh water 0,32 days, 23°C	50%; 0.49 day(s)	Not readily
Diisocyanate			
3-Isocyanatomethyl-	-	1	Not readily
3,5,5-Trimethylcyclohexyl			
Isocyanate, Oligomers			
(Bis(Isopropyl)Naphthalene)	Fresh water 2,5 days, 20°C	>70%; < 28 day(s)	Readily
3-Isocyanatomethyl-	-	-	Not readily
3,5,5-Trimethylcyclohexyl			
Isocyanate			

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12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
Solvent Naphtha (Petroleum),	-	10 to 2500	High	
Light Arom.				
Propylene Carbonate	-0,41	-	Low	
Hexamethylene-	5,54	367,7	Low	
1,6-Diisocyanate Oligomer				
(Type Uretdione)	5,54	367,7	Low	
Polyhexamethylene	6,081	1800 to 6400	High	
Diisocyanate	3,07	-	Low	
(Bis(Isopropyl)Naphthalene)	0,99	-	Low	
2-Ethylhexanal				
3-Isocyanatomethyl-				
3,5,5-Trimethylcyclohexyl				
Isocyanate				
Maleic Anhydride	-2,78	-	Low	

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 Other adverse effects

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

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.
Waste code:	08 01 11* waste paint and varnish containing organic solvents or other dangerous 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.

14. TRANSPORT INFORMATION

I abels required.

Labels required.					
	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA		
14.1 UN-No	Not regulated	Not regulated	Not regulated		
14.2 Description of the goods	-	-	-		
14.3 Transport hazard class(es)	-	-	-		
14.4 Packaging group	-	-	-		
14.5 Environmental hazards	-	-	-		

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14.6 Special precautions for user

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

14.7. Transport in bulk according to IMO instruments

Not applicable.

15. REGULATORY INFORMATION

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

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

Product/ingredient name	%	Designation [Usage]
Caltech Fibreforce Mid Grey	≥90	3
3-Isocyanatomethyl-	≤0,1	74
3,5,5-Trimethylcyclohexyl Isocyanate		
Dibutyltin Dilaurate	≤0,1	1 [Paint]
		20
Methanol	≤0,1	69
Hexamethylene-Di-Isocyanate	≤0,1	74
3-Isocyanatomethyl-	≤0,1	74
3,5,5-Trimethylcyclohexyl Isocyanate		
M-Tolylidene Diisocyanate	≤0,1	74
Decamethylcyclopentasiloxane	≤0,1	70

Labelling:

Other EU regulations:

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture; VOC: VOC for Ready-for-Use Mixture: 2004/42/EC - IIA/i: 500g/I (2010). <= 160g/I VOC.

Industrial emissions (integrated pollution prevention and control) - Air: Not listed

Industrial emissions (integrated pollution prevention and control) - Wate: Not listed

Explosive precursors: Not applicable.

United Kingdom: Great Britain:

UK (GB)/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.

Ozone depleting substances:

Not listed.

Prior Informed Consent (PIC):

Not listed.

Persistent Organic Pollutants:

Not listed.

Aerosol dispensers.

Seveso Directive:

This product is not controlled under the Seveso Directive.

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

As from August 24 2023 adequate training is required before industrial or professional use.

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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 At least one component is not listed.
Canada: At least one component is not listed.
China: At least one component is not listed.

Eurasian Economic Union: Russian Federation inventory: Not determined

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

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

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.

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

15.2 Chemical safety assessment

This product contains substances for which Chemical Safety Assessments are still required.

16. OTHER INFORMATION

Full text risk and hazard codes:

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or the unborn child.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

EUH071 Corrosive to the respiratory tract.

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

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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

Wording of the hazard classes:

Flam. Liq.: Flammable liquid

STOT SE: Specific target organ toxicity - single exposure

Skin Irrit.: Skin irritation Skin Sens.: Skin sensitization

Aquatic Chronic: Hazardous to the aquatic environment

Eye Irrit.: Serious eye irritation Acute Tox.: Acute toxicity

STOT RE: Specific target organ toxicity - repeated exposure

Skin Corr.: Skin corrosion

Eye Dam.: Serious eye damage Resp. Sens.: Respiratory sensitization

SDS version summary:

Version	Date of Update	Section Updated
1.1	04/08/2023	Template Change

Other information:

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios.

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 67/548/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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