

**Safety Data Sheet according to  
Regulation (EC) 'No. 2020/878****Construction  
Products Group  
Europe****SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking**

1.1	<b>Product Identifier</b>	FLOWSHIELD DBM PART B	<b>Revision Date:</b>	27/06/2023
	<b>Product Name:</b>	Flowshield dBM Part B	<b>Supersedes Date:</b>	New SDS
			<b>Version Number:</b>	1
	<b>UFI Code:</b>	RTFK-2170-R00R-ARN2		
	<b>Nanoform:</b>	No		
1.2	<b>Relevant identified uses of the substance or mixture and uses advised against</b>	Manual activities involving hand contact. Widespread use leading to inclusion into/ onto article (indoor). For use by appropriately trained applicators. Roller application or brushing. Low energy spreading of coatings. Advised against: Home DIY applications, because of the health hazards and training required. Component of multicomponent coatings - Industrial and professional use. Advised against: others than recommended		
1.3	<b>Details of the supplier of the safety data sheet</b>			
	<b>Manufacturer:</b>	Tremco CPG Poland Sp. z o. o. Ul. Marywilska 34 03-228 Warszawa Polska  Tel: +48 22 879 8907 Fax: +48 22 879 8918 ehs.uk@flowcrete.com www.flowcrete.com.pl/		
	<b>Datasheet Produced by:</b>	ehs.uk@flowcrete.com		
1.4	<b>Emergency telephone number:</b>	CHEMTREC +1 703 5273887 (Outside US)		

**SECTION 2: Hazards Identification****2.1 Classification of the substance or mixture**

Classification according to Classification, Labeling &amp; Packaging Regulation (EC) 1272/2008

**HAZARD STATEMENTS**

Other EU extensions	EUH204
Skin Irritation, category 2	H315
Skin Sensitizer, category 1	H317
Eye Irritation, category 2	H319
Acute Toxicity, Inhalation, category 4	H332
Respiratory Sensitizer, category 1	H334
STOT, single exposure, category 3, RTI	H335
Carcinogenicity, category 2	H351
STOT, repeated exposure, category 2	H373
Hazardous to the aquatic environment, Chronic, category 2	H411

**2.2 Label elements****Symbol(s) of Product****Signal Word**

Danger

**Named Chemicals on Label**

4,4'-Methylenediphenyl diisocyanate, Diphenylmethane-2,4'-diisocyanate, 4,4' methylenediphenyl diisocyanate, oligomers, Prepolymer based on aromatic polyisocyanate

**HAZARD STATEMENTS**

Other EU extensions	EUH204	Contains isocyanates. May produce an allergic reaction.
Skin Irritation, category 2	H315	Causes skin irritation.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
Eye Irritation, category 2	H319	Causes serious eye irritation.
Acute Toxicity, Inhalation, category 4	H332	Harmful if inhaled.
Respiratory Sensitizer, category 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
STOT, single exposure, category 3, RTI	H335	May cause respiratory irritation.
Carcinogenicity, category 2	H351	Suspected of causing cancer.
STOT, repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment, Chronic, category 2	H411	Toxic to aquatic life with long lasting effects.

**PRECAUTION PHRASES**

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	Wear respiratory protection.
P285	In case of inadequate ventilation wear respiratory protection.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P308+313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P333+313	If skin irritation or rash occurs: Get medical advice/attention.
P341	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342+311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P391  
P501Collect spillage.  
Dispose of contents/container to waste treatment/disposal facility in accordance with local, state, and federal regulations.**ADDITIONAL INFORMATION**

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

**2.3 Other hazards**

No Information

**Results of PBT and vPvB assessment:**

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

**Endocrine disrupting properties - Toxicity**

Name According to EEC

CAS-No.

No Information

**Endocrine disrupting properties - Ecotoxicity**

Name According to EEC

CAS-No.

No Information

**SECTION 3: Composition/Information On Ingredients****3.1 Substances**

Not applicable

**3.2 Mixtures****Hazardous ingredients**

<u>Name According to EEC</u> <u>EINEC No.</u> <u>CAS-No.</u> <u>REACH Reg No.</u>	<u>%</u>	<u>Classifications</u>	<b>SCL Value:</b> <b>ATE Value:</b> <b>M-Factor:</b>
4,4' methylenediphenyl diisocyanate, oligomers 500-040-3 25686-28-6 01-2119457013-49	25 - <50	H315-317-319-332-334-335-351-373  Acute Tox. 4 Inhalation, Carc. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Irrit. 2, Skin Sens. 1, STOT RE 2, STOT SE 3 RTI	<b>SCL Value:</b> -  <b>ATE Value:</b> -  <b>M-Factor:</b> -

Prepolymer based on aromatic polyisocyanate  99784-49-3  No Information	2.5 - <10	H315-317-319-332-335-373-411  Acute Tox. 4 Inhalation, Aquatic Chronic 2, Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1, STOT RE 2, STOT SE 3 RTI	<b>SCL Value:</b>	-
			<b>ATE Value:</b>	-
			<b>M-Factor:</b>	-
4,4'-Methylenediphenyl diisocyanate  202-966-0  101-68-8  01-2119457014-47	2.5 - <10	H315-317-319-332-334-335-351-373  Acute Tox. 4 Inhalation, Carc. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Irrit. 2, Skin Sens. 1, STOT RE 2, STOT SE 3 RTI	<b>SCL Value:</b>	-
			<b>ATE Value:</b>	-
			<b>M-Factor:</b>	-
Diphenylmethane-2,4'-diisocyanate  227-534-9  5873-54-1  01-2119480143-45	2.5 - <10	H315-317-319-332-334-335-351-373  Acute Tox. 4 Inhalation, Carc. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Irrit. 2, Skin Sens. 1, STOT RE 2, STOT SE 3 RTI	<b>SCL Value:</b>	-
			<b>ATE Value:</b>	-
			<b>M-Factor:</b>	-

**Additional Information:** The text for CLP Hazard Statements shown above (if any) is given in Section 16.

## SECTION 4: First-aid Measures

### 4.1 Description of First Aid Measures

**GENERAL NOTES:** When symptoms persist or in all cases of doubt seek medical advice. Show this safety data sheet to the doctor in attendance. Remove contaminated clothing and shoes.

**AFTER INHALATION:** Move to fresh air. Consult a physician after significant exposure. Remove person to fresh air. If signs/symptoms continue, get medical attention.

**AFTER SKIN CONTACT:** Use a mild soap if available. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician. Do NOT use solvents or thinners.

**AFTER EYE CONTACT:** Consult a physician. Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses. In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

**AFTER INGESTION:** Gently wipe or rinse the inside of the mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.

**Self protection of the first aider:**

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**

May cause damage to organs through prolonged or repeated exposure. Harmful by inhalation. Irritating to respiratory system. Irritating to eyes and skin. May cause sensitization by inhalation and skin contact.

**4.3 Indication of any immediate medical attention and special treatment needed**

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

**SECTION 5: Firefighting Measures****5.1 Extinguishing Media:**

Carbon Dioxide, Dry Chemical

**FOR SAFETY REASONS NOT TO BE USED:** Do not use a solid water stream as it may scatter and spread fire. Alcohol, Alcohol based solutions, any other media not listed above.

**5.2 Special hazards arising from the substance or mixture**

Carbon monoxide, carbon dioxide, nitrogen oxide, cyanides, isocyanate vapours.

**5.3 Advice for firefighters**

Keep containers and surroundings cool with water spray. Fire will produce dense black smoke containing hazardous combustion products (see section 10). In the event of fire, wear self-contained breathing apparatus. Hazardous decomposition products formed under fire conditions. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Do not allow run-off from fire fighting to enter drains or water courses.

**SECTION 6: Accidental Release Measures****6.1 Personal precautions, protective equipment and emergency procedures****6.1.1 For non-emergency personnel**

Avoid contact with skin, eyes and clothing. For personal protection see section 8.2. Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak.

**6.1.2 For emergency responders**

See Section 7, 8 and 10 for further information.

**6.2 Environmental precautions**

Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Discharge into the environment must be avoided. May cause long-term adverse effects in the aquatic environment.

**6.3 Methods and material for containment and cleaning up**

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Refer to protective measures listed in sections 7 and 8. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

**6.4 Reference to other sections**

**FURTHER INSTRUCTIONS:** Please refer to EU disposal requirements or country specific disposal requirements for this material. See Section 8 and 13 for further information.

**SECTION 7: Handling and Storage****7.1 Precautions for safe handling**

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is being used. Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Protect from frost, heat and sunlight. Apply technical measures to comply with the occupational

exposure limits (see section 8).

Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. In the case of sensitisation to any of the ingredients, it is inadvisable to work with the product. Handle in accordance with good industrial hygiene and safety practice. Keep working clothes separately. Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feeding stuffs. When using, do not eat, drink or smoke. Avoid contact with the skin and the eyes.

## 7.2 Conditions for safe storage, including any incompatibilities

**CONDITIONS TO AVOID:** Avoid temperatures above 30 °C, direct sunlight and contact with sources of heat. Avoid moisture.

**STORAGE CONDITIONS:** Keep at temperatures between 5 and 25 °C. Do not freeze. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep locked up or in an area accessible only to qualified or authorised persons. Keep container closed when not in use. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

## 7.3 Specific end use(s)

Component of multicomponent coatings. The mixing and application to be in accordance with the technical data sheets.

# SECTION 8: Exposure Controls/Personal Protection

## 8.1 Control parameters

### Ingredients with Occupational Exposure Limits (UK WELS)

<u>Name</u>	<u>CAS-No.</u>	<u>LTEL ppm</u>	<u>STEL ppm</u>	<u>STEL mg/m3</u>	<u>LTEL mg/m3</u>
4,4' methylenediphenyl diisocyanate, oligomers	25686-28-6				
Prepolymer based on aromatic polyisocyanate	99784-49-3				
4,4'-Methylenediphenyl diisocyanate	101-68-8			0.07	0.02
Diphenylmethane-2,4'-diisocyanate	5873-54-1			0.07	0.02

<u>Name</u>	<u>CAS-No.</u>	<u>OEL Note</u>
4,4' methylenediphenyl diisocyanate, oligomers	25686-28-6	
Prepolymer based on aromatic polyisocyanate	99784-49-3	
4,4'-Methylenediphenyl diisocyanate	101-68-8	
Diphenylmethane-2,4'-diisocyanate	5873-54-1	

**FURTHER ADVICE:** Refer to the regulatory exposure limits for the workforce enforced in each country. Some components may not have been classified under the EU CLP Regulation.

**Chemical Name:**

4,4'-Methylenediphenyl diisocyanate

**EC No.:**

202-966-0

**CAS-No.:**

101-68-8

**DNELs - Derived no effect level**

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required					20 mg/kg bw/d		
Inhalation	0.1 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	0.025 mg/m <sup>3</sup>	0.025 mg/m <sup>3</sup>
Dermal	28.7 mg/cm <sup>2</sup>	50 mg/kg bw/d			17.2 mg/cm <sup>2</sup>	25 mg/kg bw/d		

**PNEC's - Predicted no effect concentration**

Environmental protection target	PNEC
Fresh water	>1 mg/l
Fresh water sediments	
Marine water	>0.1 mg/l
Marine sediments	
Food chain	
Microorganisms in sewage treatment	>1 mg/l
soil (agricultural)	>1 mg/kg
Air	

**Chemical Name:**

Diphenylmethane-2,4'-diisocyanate

**EC No.:**

227-534-9

**CAS-No.:**

5873-54-1

**DNELs - Derived no effect level**

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required					20 mg/kg bw/d		
Inhalation	0.1 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	0.025 mg/m <sup>3</sup>	0.025 mg/m <sup>3</sup>
Dermal	28.7 mg/cm <sup>2</sup>	50 mg/kg bw/d			17.2 mg/cm <sup>2</sup>	25 mg/kg bw/d		

**PNEC's - Predicted no effect concentration**

Environmental protection target	PNEC
Fresh water	>1 mg/l
Fresh water sediments	
Marine water	>0.1 mg/l
Marine sediments	
Food chain	
Microorganisms in sewage treatment	>1 mg/l
soil (agricultural)	>1 mg/kg
Air	

**8.2 Exposure controls****Personal Protection**

**RESPIRATORY PROTECTION:** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. In case of insufficient ventilation wear suitable respiratory equipment. Wear a positive-pressure supplied-air respirator. Respirator with filter for organic vapor.

**EYE PROTECTION:** Eye wash bottle with pure water. Safety glasses. If splashes are likely to occur, wear: Face-shield, tightly fitting safety goggles (EN 166).

**HAND PROTECTION:** Isocyanates can harden gloves and increase the risk of their splitting. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Protective gloves. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Long sleeved clothing. Remove and wash contaminated clothing before re-use. Wear rubber gloves. Protective gloves complying with EN 374: Viton®, Neoprene, Nitrile rubber, Butyl rubber.

**OTHER PROTECTIVE EQUIPMENT:** Ensure that eyewash stations and safety showers are close to the workstation location.

**ENGINEERING CONTROLS:** At temperatures below 30°C, provide a good standard of general ventilation. At temperatures over 30°C - and always if sprayed - exhaust ventilation is required. Avoid contact with skin, eyes and clothing. Ensure

adequate ventilation, especially in confined areas.

## SECTION 9: Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Colour:	Yellowish
Physical State	Liquid
Odor	Characteristic
Odor threshold	Not determined
pH	Not determined
Melting point / freezing point (°C)	Not determined
Boiling point or initial boiling point and boiling range (°C)	300 - N.D.
Flash Point, (°C)	Not measured
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Lower and upper explosive limit	Not determined
Vapour Pressure	8 hPa
Relative vapour density	Not determined
Density and/or relative density	1.21 g/cm <sup>3</sup>
Solubility in / Miscibility with water	Not miscible in water
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature (°C)	> 500°C
Decomposition temperature (°C)	Not determined
Kinematic viscosity	252 mPas
Particle characteristics	Not applicable to liquids

### 9.2 Other information

VOC Content g/l:	< 10 g/l
Specific Gravity (g/cm <sup>3</sup> )	0.120

## SECTION 10: Stability and Reactivity

### 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Amines and alcohols cause exothermic reactions. Preparation reacts slowly with water resulting in evolution of CO<sub>2</sub>.

### 10.4 Conditions to avoid

Avoid temperatures above 30 °C, direct sunlight and contact with sources of heat. Avoid moisture.

### 10.5 Incompatible materials

Keep away from oxidising agents, strongly acid or alkaline materials, as well as of amines, alcohols and water.

### 10.6 Hazardous decomposition products

In case of fire **hazardous decomposition products** may be produced such as: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Preparation reacts slowly with water resulting in evolution of CO<sub>2</sub>. Evolution of CO<sub>2</sub> in



closed containers causes overpressure and produces a risk of bursting.

## SECTION 11: Toxicological information

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

#### Acute Toxicity:

Oral LD50: No information available.

Inhalation LC50: No information available.

Dermal LD50: No Information

Irritation: Irritating to eyes and skin.

Corrosivity: No information available.

Sensitization: May cause an allergic skin reaction.

Repeated dose toxicity: No information available.

Carcinogenicity: Suspected of causing cancer.

Mutagenicity: No information available.

Toxicity for reproduction: No information available.

STOT-single exposure: May cause respiratory irritation.

STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: No information available.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested.  
Data on individual components are tabulated below:

<u>CAS-No.</u>	<u>Name According to EEC</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Vapor LC50</u>	<u>Gas LC50</u>	<u>Dust/Mist LC50</u>
25686-28-6	4,4' methylenediphenyl diisocyanate, oligomers	5000 mg/kg (rat)	9400 mg/kg (rabbit)		0.000	0.000
99784-49-3	Prepolymer based on aromatic polyisocyanate	>2000 mg/kg (rat)	>9400 mg/kg (rabbit)		0.000	0.000
101-68-8	4,4'-Methylenediphenyl diisocyanate	>2000 mg/kg (rat)	>9400 mg/kg (rabbit, OECD TG 402)			1.5 mg/l (ATE)
5873-54-1	Diphenylmethane-2,4'-diisocyanate	>2000 mg/kg (rat)	>9400 mg/kg (rabbit, OECD TG 402)			1.5 mg/l (ATE)

#### Additional Information:

In the case of sensitisation to any of the ingredients, it is inadvisable to work with the product. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates. Isocyanates may cause acute irritation and/or sensitisation of the respiratory system leading to tightness of the chest, wheeziness and an asthmatic condition. This product may contain Titanium Dioxide, which is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing is based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals. This classification is relevant when exposed to titanium dioxide in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities.

### 11.2 Information on other hazards

**Endocrine disrupting properties - Toxicity**

Name According to EEC

CAS-No.

No Information

**SECTION 12: Ecological Information****12.1 Toxicity:**

EC50 48hr (Daphnia):

No information

IC50 72hr (Algae):

No information

LC50 96hr (fish):

No information

**12.2 Persistence and degradability:**

No information

**12.3 Bioaccumulative potential:**

No information

**12.4 Mobility in soil:**

No information

**12.5 Results of PBT and vPvB assessment:**

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

**12.6 Endocrine disrupting properties****Endocrine disrupting properties - Ecotoxicity**

Name According to EEC

CAS-No.

No Information

**12.7 Other adverse effects:**

No information

<u>CAS-No.</u>	<u>Name According to EEC</u>	<u>EC50 48hr</u>	<u>IC50 72hr</u>	<u>LC50 96hr</u>
25686-28-6	4,4'-methylenediphenyl diisocyanate, oligomers	No information	No information	
99784-49-3	Prepolymer based on aromatic polyisocyanate	No information	No information	No information
101-68-8	4,4'-Methylenediphenyl diisocyanate	> 1000 mg/l (24h) OECD 202	> 1640 mg/l OECD 201	> 1000 mg/l (danio rerio) OECD 203
5873-54-1	Diphenylmethane-2,4'-diisocyanate	>1000 mg/l OECD 202	>1640 mg/l OECD 201	>1000 mg/l (danio rerio) OECD 203

**SECTION 13: Disposal Considerations**

- 13.1 WASTE TREATMENT METHODS:** Dispose of waste material at an approved hazardous waste treatment/disposal facility in accordance with applicable local state, and federal regulations. Do not dispose of waste with normal garbage, or to sewer systems. Contaminated packaging to be disposed of as product. If recycling is not practicable, dispose of in compliance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal. 080501 - waste isocyanates The product should not be allowed to enter drains, water courses or the soil.

European Waste Code: 080501

Packaging Waste Code: 150110

**SECTION 14: Transport Information**

	ADR/RID	ADN	IMDG	IATA
<b>14.1 UN-number or ID number</b>	UN3082	UN3082	UN3082	UN3082
<b>14.2 UN proper shipping name</b>	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (Diphenylmethane-Diisocyanate (mixed isomers))	3082 ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (Diphenylmethane-Diisocyanate (mixed isomers))	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (Diphenylmethane-Diisocyanate (mixed isomers))	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.,(Diphenylmethane-Diisocyanate (mixed isomers))
<b>14.3 Transport Hazard Class(es)</b>	9	9	9	9
<b>14.4 Packing Group</b>	III	III	III	III
<b>14.5 Enviromental Hazards</b>	No Information	No Information	No Information	No Information

**14.6 Special precautions for user** Not applicable

**EmS-No.:** F-A, S-F

**14.7 Maritime transport in bulk according to IMO intruments** Not applicable

**SECTION 15: Regulatory Information****15.1 Safety, health and environmental regulations/legislation for the substance or mixture:****National Regulations:**

**Denmark Product Registration Number:** Not available

**Danish MAL Code:** 3-3 (1993)

**Danish MAL Code - Mixture:** Not available

**Sweden Product Registration Number:** Not available

**Norway Product Registration Number:** Not available

**Germany WGK Class:** 1

**Directive 2004/42/CE :** < 10 g/l

**Covered by Directive 2012/18/EC (Seveso III):** E2

**Restrictions to product or to substances according to Annex XVII, Regulation (CE) 1907/2006:**

Not applicable

**Annex XIV, Regulation (CE) 1907/2006 - Authorisation List:**

CAS-No.      Name According to EEC

Not Applicable

**SVHC - Substances of very high concern (Candidate List - Art. 59 REACH):**

CAS-No.      Name According to EEC

Not Applicable

**15.2 Chemical Safety Assessment:**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 16: Other Information

**Text for CLP Hazard Statements shown in Section 3 describing each ingredient:**

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

**Reasons for revision**

This Safety Data Sheet (SDS) has been revised to meet the new EU CLP requirements. There have been both formatting and content changes based on the CLP classification (if applicable), please review each section of the SDS for specific changes.

**List of References:**

This Safety Data Sheet was compiled with data and information from the following sources:

- The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark.
- Joint Research Centre in Ispira, Italy.
- Regulation (EC) 1272/2008 with subsequent amendments.
- Regulation (EC) 1272/2006 with subsequent amendments.
- Commission Regulation (EU) 2020/878
- EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes"
- Safety Data Sheet from raw material supplier
- The classification declared in sec. 2.2 is based on the calculation methods set out in Annex I and Annex II of the CLP Reg. 1272/2008 on the composition of the formula.

**Acronym & Abbreviation Key:**

CLP	Classification, Labeling & Packaging Regulation
EC	European Commission
EU	European Union
US	United States
CAS	Chemical Abstract Service
EINECS	European Inventory of Existing Chemical Substances
REACH	Registration, Evaluation, Authorization of Chemicals Regulation
GHS	Globally Harmonized System of Classification and Labeling of Chemicals

LTEL	Long term exposure limit
STEL	Short term exposure limit
OEL	Occupational exposure limit
ppm	Parts per million
mg/m3	Milligrams per cubic meter
TLV	Threshold Limit Value
ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety & Health Administration
PEL	Permissible Exposure Limits
VOC	Volatile organic compounds
g/l	Grams per liter
mg/kg	Milligrams per kilogram
N/A	Not applicable
LD50	Lethal dose at 50%
LC50	Lethal concentration at 50%
EC50	Half maximal effective concentration
IC50	Half maximal inhibitory concentration
PBT	Persistent bioaccumulative toxic chemical
vPvB	Very persistent and very bioaccumulative
EEC	European Economic Community
ADR	International Transport of Dangerous Goods by Road
RID	International Transport of Dangerous Goods by Rail
UN	United Nations
IMDG	International Maritime Dangerous Goods Code
IATA	International Air Transport Association
MARPOL	International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978
IBC	International Bulk Container
RTI	Respiratory Tract Irritation
NE	Narcotic Effects
IMO	International Maritime Organization
Note P:	The classification as a carcinogen or mutagen need not apply; the substance contains less than 0,1 % w/w benzene
Note 10:	The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter $\leq 10 \mu\text{m}$ .

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.