Safety Data Sheet according to Regulation (EC) 'No. 2020/878



















SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

FLOWSEAL PU ANTI-STAIN PART B Revision Date: 12/07/2023 **Product Identifier**

Supersedes Date: 26/05/2022 Flowseal PU Anti-Stain Part B **Product Name:**

> 1 **Version Number:**

UFI Code: MA00-C0F3-200W-QGFP

Nanoform:

Relevant identified uses of the substance or mixture and uses

advised against

Coatings and paints, thinners, paint removers. Manual activities involving hand contact. Widespread use leading to inclusion into/onto article (indoor). Hardener for 2 components coatings - Industrial use. 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. Advised

against: others than recommended

Details of the supplier of the safety data sheet 1.3

> Tremco CPG UK Limited Supplier:

Coupland Road Hindley Green WN2 4HT, UK

Tel: +44 (0)1942 251400

ehs.uk@flowcrete.com **Datasheet Produced by:**

CHEMTREC +001 703 5273887 (Outside US) 1.4 Emergency telephone number: CHEMTREC 1-800-424-9300 (Inside US)

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

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

HAZARD STATEMENTS

Skin Sensitizer, category 1	H317
Eye Irritation, category 2	H319
Acute Toxicity, Inhalation, category 4	H332
STOT, single exposure, category 3, RTI	H335
Hazardous to the aquatic environment, Chronic, category 3	H412

2.2 Label elements

Symbol(s) of Product



Signal Word

Warning

Named Chemicals on Label

Hexamethylene diisocyanate, oligomers, cyclohexane,5-isocyanato-1-(is, Hydrophilic aliphatic polyisocyanate

HAZARD STATEMENTS

Skin drying or cracking Other EU extensions Skin Sensitizer, category 1 Eye Irritation, category 2 Acute Toxicity, Inhalation, category 4 STOT, single exposure, category 3, RTI Hazardous to the aquatic environment, Chronic, category 3 PRECAUTION PHRASES	EUH066 EUH204 H317 H319 H332 H335	Repeated exposure may cause skin dryness or cracking. Contains isocyanates. May produce an allergic reaction. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. Harmful to aquatic life with long lasting effects.
	P261 P273 P280 P302+352 P304+340 P305+351+338	Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/ face protection. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so.

Continue rinsing.

If skin irritation or rash occurs: Get medical advice/attention.

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.

P333+313

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

Name According to EEC EINEC No. CAS-No. REACH Reg No.	<u>%</u>	<u>Classifications</u>	SCL Value: ATE Value: M-Factor:	
Hydrophilic aliphatic polyisocyanate 666723-27-9 No Information	50 - <75	H317-332-335-412 Acute Tox. 4 Inhalation, Aquatic Chronic 3, Skin Sens. 1, STOT SE 3 RTI	SCL Value: ATE Value: M-Factor:	-
Hexamethylene diisocyanate, oligomers 500-060-2 28182-81-2 01-2119488177-26	2.5 - <10	H317-332-335 Acute Tox. 4 Inhalation, Skin Sens. 1, STOT SE 3 RTI	SCL Value: ATE Value: M-Factor:	-
dipropylene glycol dimethyl ether 601-045-4 111109-77-4 No Information	2.5 - <10	H319 Eye Irrit. 2	SCL Value: ATE Value: M-Factor:	-

n-Butyl acetate 204-658-1 123-86-4 01-2119485493-29	2.5 - <10	H225-336 Flam. Liq. 2, Skin Cracking, STOT SE 3 NE	SCL Value: ATE Value: M-Factor:	-
cyclohexane,5-isocyanato-1-(is 500-125-5 53880-05-0 No Information	2.5 - <10	H317-332-335 Acute Tox. 4 Inhalation, Skin Sens. 1, STOT SE 3 RTI	SCL Value: ATE Value: M-Factor:	-
polyoxyethylene tridecyl ether phosphate 9046-01-9 No Information	1.0 - <2.5	H315-318-412 Aquatic Chronic 3, Eye Dam. 1, Skin Irrit. 2	SCL Value: ATE Value: M-Factor:	-

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

SECTION 4: First-aid Measures

Date Printed: 12/07/2023

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. Keep respiratory tract clear. 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: Keep eye wide open while rinsing. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. If eye irritation persists, consult a specialist.

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:

Date Printed: 12/07/2023

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

Irritating to eyes, respiratory system and skin.

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, Foam, Water Fog

FOR SAFETY REASONS NOT TO BE USED: Alcohol, Alcohol based solutions, any other media not listed above.

5.2 Special hazards arising from the substance or mixture

In case of fire hazardous decomposition products may be produced such as: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

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. High volume water jet. 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.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

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. 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.

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

Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Use only in well-ventilated areas. Smoking, eating and drinking should be prohibited in the application area.

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. Wash hands and face before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

CONDITIONS TO AVOID: Avoid temperatures above 40 °C, direct sunlight and contact with sources of heat. **STORAGE CONDITIONS:** Do not freeze. Store in original container. Store at room temperature in the original container. 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 a resin flooring product. 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>	CAS-No.	LTEL ppm	STEL ppm	STEL mg/m3	LTEL mg/m3
Hydrophilic aliphatic polyisocyanate	666723-27-9				
Hexamethylene diisocyanate, oligomers	28182-81-2				0.02
dipropylene glycol dimethyl ether	111109-77-4				
n-Butyl acetate	123-86-4	150	200	966	724
cyclohexane,5-isocyanato-1-(is	53880-05-0				0.02
polyoxyethylene tridecyl ether phosphate	9046-01-9				
Nama	CAS-NO OF Note				

Name CAS-No. OEL Note

Hydrophilic aliphatic polyisocyanate 666723-27-9

Hexamethylene diisocyanate, oligomers 28182-81-2

dipropylene glycol dimethyl ether 111109-77-4

n-Butyl acetate 123-86-4

cyclohexane,5-isocyanato-1-(is 53880-05-0

polyoxyethylene tridecyl ether phosphate 9046-01-9

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:

EC No.: CAS-No.:

DNELs - Derived no effect level

	Workers					Con	sumers	
Route of	Acute effect	Acute effects	Chronic	Chronic effects	Acute effect	Acute effects	Chronic	Chronic effects
Exposure	local	systemic	effects local	systemic	local	systemic	effects local	systemic
Oral	Not required							· · ·
Inhalation								
Dermal								

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	
Fresh water sediments	
Marine water	
Marine sediments	
Food chain	
Microorganisms in sewage treatment	
soil (agricultural)	
Air	

Date Printed: 12/07/2023 8.2 Exposure controls

Personal Protection

RESPIRATORY PROTECTION: In case of insufficient ventilation wear suitable respiratory equipment, filter A. Respirator with a vapor filter.

EYE PROTECTION: Eye wash bottle with pure water. Safety glasses with side-shields conforming to EN 166. Safety glasses. If splashes are likely to occur, wear: tightly fitting safety goggles.

HAND PROTECTION: Use chemical resistant gloves (EN 374): Nitrile rubber; thickness >=0,5 mm; breakthrough time >= 480 min. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Impervious 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. Remove contaminated clothing and protective equipment before entering eating areas.

OTHER PROTECTIVE EQUIPMENT: No Information

ENGINEERING CONTROLS: At temperatures below 40°C, provide a good standard of general ventilation (not less than 5 air changes per hour). At temperatures over 40°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: Colourless

Physical State Liquid

Odor ester Like

Odor threshold Not determined

pH Not determined

Melting point / freezing point (°C) Not determined

Boiling point or initial boiling point and

boiling range (°C)

126 - N.D.

Flash Point, (°C) 62

Evaporation rate Not determined Flammability (solid, gas) Not determined

Llower and upper explosive limit Not determined

Vapour Pressure Not determined
Relative vapour density Not determined

Density and/or relative density ca. 1.09
Solubility in / Miscibility with water Miscible

Partition coefficient: n-octanol/water Not determined

Auto-ignition temperature (°C) ca. 460 °C DIN 51794

Decomposition temperature (°C) Not determined

Kinematic viscosity 70-75 s (DIN 53211/4)

Particle characteristics Not applicable to liquids

9.2 Other information

VOC Content g/l:

No Information

This is a calculated maximum VOC content for the mixed ready to use product (to Directive 2004/42/EC).

SECTION 10: Stability and Reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Date Printed: 12/07/2023

No decomposition if stored and applied as directed. Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerisation does not occur.

10.4 Conditions to avoid

Avoid temperatures above 40 °C, direct sunlight and contact with sources of heat.

10.5 Incompatible materials

Strong oxidizing agents. Acids and bases. Amines. Reducing agents.

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). Thermal decomposition can lead to release of irritating gases and vapours. Alcohols. Exothermic reaction.

SECTION 11: Toxicological information

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

Acute Toxicity:

Oral LD50: No Information Inhalation LC50: No Information Dermal LD50: No Information

Irritation: Causes serious eye irritation.

Corrosivity: No information available.

Sensitization: May cause an allergic skin reaction.

Repeated dose toxicity: No information available.

Carcinogenicity: No information available.

Mutagenicity: No information available.

Toxicity for reproduction: No information available.

STOT-single exposure: May cause respiratory irritation.

STOT-repeated exposure: No information available.

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:

CAS-No.	Name According to EEC	Oral LD50	Dermal LD50	Vapor LC50	Gas LC50	Dust/Mist LC50
666723-27-9	Hydrophilic aliphatic polyisocyanate	>5000 mg/kg (rat)			0.000	0.000
28182-81-2	Hexamethylene diisocyanate, oligomers	> 5665 mg/kg (rat)			0.000	0.000
123-86-4	n-Butyl acetate	10760 mg/kg (rat)		23.4 mg/l, 4hr (rat)	0.000	0.000

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. 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):

IC50 72hr (Algae):

No information

No information

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

assessment:

12.6 Endocrine disrupting properties

Endocrine disrupting properties - Ecotoxicity

Name According to EEC CAS-No.

No Information

12.7 Other adverse effects: No information

CAS-No.	Name According to EEC	EC50 48hr	IC50 72hr	LC50 96hr
666723-27	-9 Hydrophilic aliphatic polyisocyanate	No information	No information	No information
28182-81-	2 Hexamethylene diisocyanate, oligomers	No information	No information	> 100 mg/L (danio rerio)
111109-77	-4 dipropylene glycol dimethyl ether	No information	No information	
123-86-4	n-Butyl acetate	No information	No information	
53880-05-	cyclohexane,5-isocyanato-1-(is	No information	No information	
9046-01-9	polyoxyethylene tridecyl ether phosphate	No information	No information	

SECTION 13: Disposal Considerations

13.1 WASTE TREATMENT METHODS: Dispose of as hazardous waste in compliance with local and national regulations. 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. 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
UN-number or ID number	No Information	No Information	No Information	No Information
UN proper shipping name	Not regulated for transport according to ADR/RID, IMDG, and IATA regulations.	Not regulated for transport according to ADR/RID, IMDG, and IATA regulations.	Not regulated for transport according to ADR/RID, IMDG, and IATA regulations.	Not regulated for transport according to ADR/RID, IMDG, and IATA regulations.
Transport Hazard Class(es)	No Information	No Information	No Information	No Information
Packing Group	No Information	No Information	No Information	No Information
Enviromental Hazards	No Information	No Information	No Information	No Information
	UN proper shipping name Transport Hazard Class(es) Packing Group Enviromental	UN-number or ID number No Information No Information No Information Not regulated for transport according to ADR/RID, IMDG, and IATA regulations. Transport Hazard Class(es) No Information Packing Group No Information No Information	UN-number or ID number No Information No Information No Information No Information No Information Not regulated for transport according to ADR/RID, IMDG, and IATA regulations. Transport Hazard Class(es) No Information No Information No Information No Information No Information	UN-number or ID number No Information No Information

14.6 Special precautions for user Not applicableEmS-No.: Not applicable

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: 3-5 (1993)

Danish MAL Code - Mixture: Not available

Sweden Product Registration Number: Not available

Norway Product Registration Number: Not available

Germany WGK Class: 2

Directive 2004/42/CE: Not available

Not applicable Covered by Directive 2012/18/EC (Seveso III):

Restrictions to product or to substances according

Not applicable to Annex XVII, Regulation (CE) 1907/2006:

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

Name According to EEC CAS-No.

Not Applicable

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

Name According to EEC CAS-No.

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:

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

H412

Harmful to aquatic life with long lasting effects.

Reasons for revision

Revision Description Changed

Substance and/or Product Properties Changed in Section(s):

- 01 Identification
- 02 Hazard Identification
- 03 Composition/Information On Ingredients
- 08 Exposure Controls/Personal Protection
- 09 Physical and Chemical Properties
- 11 Toxicological Information
- 14 Transportation Information

Revision Statement(s) Changed

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 Ispra, Italy.
- Regulation (EC) 1272/2008 with subsequent amendments.
- Regulation (EC) 1272/2006 with subsequent amendments.

Product: FLOWSEAL PU ANTI-STAIN PART B

- Date Printed: 12/07/2023
- 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 μm .

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.