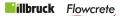
## Safety Data Sheet according to Regulation (EC) 'No. 2020/878



















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

FLOWSEAL PU MATT\_SATIN PART **Revision Date:** 01/03/2023 **Product Identifier** 

Supersedes Date: 19/07/2022 Flowseal PU Matt (TP-500) PU **Product Name:** 

Satin (TP-550) Part B

1 **Version Number:** 

**UFI Code:** PAY0-M005-200C-AHX8

Nanoform:

1.2 Relevant identified uses of the substance or mixture and uses

advised against

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 Details of the supplier of the safety data sheet

> Tremco CPG Poland Sp. z o. o. Manufacturer:

UI. Marywilska 34 03-228 Warszawa

Polska

Tel: +48 22 879 8907 Fax: +48 22 879 8918 ehs.uk@flowcrete.com www.flowcrete.com.pl/

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

CHEMTREC +1 703 5273887 (Outside US) 1.4 Emergency telephone number:

## **SECTION 2: Hazards Identification**

#### 2.1 Classification of the substance or mixture

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

#### **HAZARD STATEMENTS**

Other EU extensions	EUH204
Skin Sensitizer, category 1	H317
Acute Toxicity, Inhalation, category 4	H332
STOT, single exposure, category 3, RTI	H335

## 2.2 Label elements

## Symbol(s) of Product



## Signal Word

Warning

#### **Named Chemicals on Label**

Hexamethylene-1,6-diisocyanate homopolymer, Hydrophilic aliphatic polyisocyanate

#### **HAZARD STATEMENTS**

Other EU extensions	EUH204	Contains isocyanates. May produce an allergic reaction.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
Acute Toxicity, Inhalation, category 4	H332	Harmful if inhaled.
STOT, single exposure, category 3, RTI	H335	May cause respiratory irritation.
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.
	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+P351+P33	IF IN EYES: Rinse cautiously with water for several minutes.
	8	Remove contact lenses, if present and easy to do so. Continue rinsing.
	P333+313	If skin irritation or rash occurs: Get medical advice/attention.
	P337+P313	If eye irritation persists: Get medical advice/attention.
	P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
	P501	Dispose of contents/container to waste treatment/disposal facility in accordance with local, state, and federal regulations.

## 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

Name According to EEC  EINEC No.  CAS-No.  REACH Reg No.	<u>%</u>	Classifications	,	SCL Value: ATE Value: M-Factor:
Hexamethylene-1,6-diisocyanate homopolymer 500-060-2 28182-81-2 01-2119488934-20	75-100	H317-332-335  Acute Tox. 4 Inhalation, Skin Sens. 1, STOT SE 3 RTI	SCL Value:  ATE Value:  M-Factor:	-
Hydrophilic aliphatic polyisocyanate 666723-27-9 No Information	10 - <25	H317-332-335-412  Acute Tox. 4 Inhalation, Aquatic Chronic 3, Skin Sens. 1, STOT SE 3 RTI	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**

#### 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. Heat, flames and sparks. Avoid moisture. Do not freeze.

**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>	CAS-No.	LTEL ppm	STEL ppm	STEL mg/m3	LTEL mg/m3
Hexamethylene-1,6-diisocyanate homopolymer	28182-81-2			0.07	0.02
Hydrophilic aliphatic polyisocyanate	666723-27-9				
Nama	CAS-NO OF Note				

Name <u>CAS-No.</u> <u>OEL Note</u>

Hexamethylene-1,6-diisocyanate

homopolymer

28182-81-2

Hydrophilic aliphatic polyisocyanate 666723-27-9

**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:**

Hexamethylene-1,6-diisocyanate homopolymer

**EC No.: CAS-No.:** 500-060-2 28182-81-2

## **DNELs - Derived no effect level**

		Wo	orkers			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	1 mg/m³		0.5 mg/m <sup>3</sup>					
Dermal		<u> </u>						

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

Environmental protection target	PNEC
Fresh water	0.199 mg/l
Fresh water sediments	44551 mg/kg
Marine water	0.0199 mg/l
Marine sediments	4455 mg/kg
Food chain	
Microorganisms in sewage treatment	100 mg/l
soil (agricultural)	8884 mg/kg
Air	

# 8.2 Exposure controls

Date Printed: 01/03/2023

#### 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, Nitril 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:YellowPhysical StateLiquidOdorSlight

Odor threshold

PH

Not determined

Not determined

Not determined

Not determined

Boiling point or initial boiling point and

boiling range (°C)

N.D. - N.D.

Flash Point, (°C) 185

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

Llower and upper explosive limit Not determined

Vapour Pressure ca. 5 hPs (20°C) Relative vapour density Not determined Density and/or relative density Not determined Solubility in / Miscibility with water Not determined Partition coefficient: n-octanol/water Not determined Auto-ignition temperature (°C) Not determined Decomposition temperature (°C) Not determined Kinematic viscosity Not determined

Particle characteristics Not applicable to liquids

## 9.2 Other information

VOC Content g/l: 7 g/l (A+B)

Specific Gravity (g/cm3) 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 CO2.

#### 10.4 Conditions to avoid

Avoid temperatures above 30 °C, direct sunlight and contact with sources of heat. Heat, flames and sparks. Avoid moisture. Do not freeze.

#### 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 CO2. Evolution of CO2 in closed containers causes overpressure and produces a risk of bursting.

## **SECTION 11: Toxicological information**

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

**Acute Toxicity:** 

Oral LD50: No information available.

Inhalation LC50: No information available.

Dermal LD50: No Information

Irritation: May cause allergic skin reaction.

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
28182-81-2	Hexamethylene-1,6- diisocyanate homopolymer	> 2500 mg/kg (rat)	> 2001 mg/kg (rat)	18500 mg/kg		
666723-27-9	Hydrophilic aliphatic polyisocyanate	>5000 mg/kg (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. 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):

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
28182-81-2	Hexamethylene-1,6-diisocyanate homopolymer	> 100 mg/l	> 1000 mg/l	> 100 mg/l (danio rerio)
666723-27-9	Hydrophilic aliphatic polyisocyanate	No information	No information	No information

## **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 isocyanatesThe 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
14.1	UN-number or ID number	No Information	No Information	No Information	No Information
14.2	UN proper shipping name	Not regulated for transport according to U.S. DOT, ADR/RID, IMDG, and IATA regulations.	Not regulated for transport according to U.S. DOT, ADR/RID, IMDG, and IATA regulations.	Not regulated for transport according to U.S. DOT, ADR/RID, IMDG, and IATA regulations.	Not regulated for transport according to U.S. DOT, ADR/RID, IMDG, and IATA regulations.
14.3	Transport Hazard Class(es)	No Information	No Information	No Information	No Information
14.4	Packing Group	No Information	No Information	No Information	No Information
14.5	Enviromental Hazards	No Information	No Information	No Information	No Information

14.6 Special precautions for user Not applicable
 EmS-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: Not available

Danish MAL Code - Mixture: Not available

Sweden Product Registration Number: Not available

Product: FLOWSEAL PU MATT SATIN PART B

Norway Product Registration Number: Not available

Germany WGK Class: Not available

**Directive 2004/42/CE**: 7 g/l (A+B)

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

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

Date Printed: 01/03/2023

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:

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

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.
- 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  $\mu$ 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.