

# Safety Data Sheet according to Regulation (EC) 'No. 2015/830

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

1.1 Product Identifier FLOWSEAL EPW HARDENER B Revision Date: 25/03/2021

(GLOSS & MATT)

Product Name: Flowseal EPW Hardener B (Gloss Supersedes Date: 19/03/2021

& Matt)

**UFI Code:** M831-V0RE-5004-R7R7

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

industrial coatings - Industrial use.

1.3 Details of the supplier of the safety data sheet

Manufacturer: Flowcrete Polska Sp. z o. o.

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Polska

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# **SECTION 2: Hazard Identification**

#### 2.1 Classification of the substance or mixture

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

#### **HAZARD STATEMENTS**

Serious Eye Damage, category 1 H318

# 2.2 Label elements

# Symbol(s) of Product



# Signal Word

Danger

#### Named Chemicals on Label

Formaldehyde,polymer w/MXDA,bis A,DETA-glycidyl Ph ether reaction prod.,epichlo.,propyl\_oxide &TETA

# **HAZARD STATEMENTS**

Serious Eye Damage, category 1 H318 Causes serious eye damage.

**PRECAUTION PHRASES** 

P280 Wear protective gloves/protective clothing/eye protection/

face protection.

P301+310 IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician.

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.

# 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.

# SECTION 3: Composition/Information On Ingredients

# 3.2 Mixtures

## Hazardous ingredients

Name According to EEC	EINEC No.	CAS-No.	<u>%</u>	Classifications	REACH Reg No.
Formaldehyde,polymer w/MXDA,bis A,DETA-glycidyl Ph ether reaction prod.,epichlo.,propyl_ox ide &TETA		238080-05-2	10 - <25	No GHS Flavor/ Country combination found	-
Titanium dioxide		13463-67-7	2.5 - <10	No Information	01-2119489379- 17

Date Printed: 25/03/2021 Product: FLOWSEAL EPW HARDENER B (GLOSS & MATT)

No GHS Flavor/

N/A

Alcohols, C12-14, ethoxylated

68439-50-9

combination found

Country

CAS-No. **CLP Symbols CLP Hazard Statements M-Factors** REACH Reg No.

238080-05-2 -13463-67-7

68439-50-9

01-2119489379-17 N/A

GHS05-GHS07

GHS09

Additional Information:

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

<0.1

# **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. Risk of product entering the lungs on vomiting after ingestion. Remove contaminated clothing and shoes

AFTER INHALATION: Move to fresh air.

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.

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. 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.

# Most important symptoms and effects, both acute and delayed

No Information

#### 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: Fire-fighting Measures**

# **Extinguishing Media:**

Carbon Dioxide, Dry Chemical, Foam

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

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

No Information

#### 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). Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

# **SECTION 6: Accidental Release Measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak.

# 6.2 Environmental precautions

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Do not allow material to contaminate ground water system. Prevent product from entering drains.

## 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). After cleaning, flush away traces with water. 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 13 for further information.

# **SECTION 7: Handling and Storage**

# 7.1 Precautions for safe handling

Wear personal protective equipment. Use only in well-ventilated areas.

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 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.	<u>LTEL ppm</u>	STEL ppm	STEL mg/m3	LTEL mg/m3
Formaldehyde,polymer w/MXDA,bis A,DETA-glycidyl Ph ether reaction prod.,epichlo.,propyl_oxide &TETA	238080-05-2				
Titanium dioxide	13463-67-7				
Alcohols, C12-14, ethoxylated	68439-50-9				
<u>Name</u>	CAS-No.	OEL Note			

Name CAS-NO. OEL NOR

Formaldehyde,polymer w/MXDA,bis A,DETA-glycidyl Ph ether reaction prod.,epichlo.,propyl oxide &TETA 238080-05-2

13463-67-7

Alcohols, C12-14, ethoxylated 68439-50-9

**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.

# 8.2 Exposure controls

Titanium dioxide

# **Personal Protection**

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

EYE PROTECTION: Eye wash bottle with pure water. Tightly fitting safety goggles.

**HAND PROTECTION:** Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Rubber or plastic 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.

**OTHER PROTECTIVE EQUIPMENT:** No Information

**ENGINEERING CONTROLS:** As a rule, at least 5 air changes per hour are recommended at the workplace. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas.

**Chemical Name:** 

EC No.: CAS-No.:

#### DNELs - Derived no effect level

	Workers			Consumers				
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	

# **SECTION 9: Physical and Chemical Properties**

9.1 Information on basic physical and chemical properties

Appearance: miscellaneous colours

Physical State Liquid
Odor slight

Odor threshold Not determined pH Not determined

Melting point / freezing point (°C) Not determined

Boiling point/range (°C) 100 - N.D.

Flash Point, (°C) >100

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

Upper/lower flammability or explosive 999 - 0

limits

Vapour Pressure Not determined Vapour density Not determined

Relative density ca. 1.35

Solubility in / Miscibility with water Not determined

Partition coefficient: n-octanol/water Not determined

Auto-ignition temperature (°C)

Decomposition temperature (°C)

Not determined

Viscosity

Not determined

Explosive properties

Not determined

9.2 Other information

Oxidising properties

VOC Content g/l: <30

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

No Information

# 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

Incompatible with strong acids and oxidizing agents.

# 10.6 Hazardous decomposition products

In case of fire hazardous decomposition products may be produced such as: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

Not determined

# **SECTION 11: Toxicological Information**

#### 11.1 Information on toxicological effects

**Acute Toxicity:** 

Oral LD50: No Information Inhalation LC50: No Information

Irritation: No information available.

Corrosivity: Causes serious eye damage.

**Sensitization:** No information available.

Repeated dose toxicity: No information available.

Carcinogenicity: No information available.

**Mutagenicity:** No information available.

**Toxicity for reproduction:** No information available.

STOT-single exposure: No information available.

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:

#### Additional Information:

Date Printed: 25/03/2021

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.

# **SECTION 12: Ecological Information**

# 12.1 Toxicity:

EC50 48hr (Daphnia):No informationIC50 72hr (Algae):No informationLC50 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 The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

assessment:

# **SECTION 13: Disposal Considerations**

13.1 WASTE TREATMENT METHODS: Dispose of as hazardous waste in compliance with local and national regulations. Container hazardous when empty. 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: 080119\* Packaging Waste Code: 150110\*

# **SECTION 14: Transport Information**

14.1	UN number	Not applicable
14.2	UN proper shipping name	No Information
	Technical name	Not applicable
14.3	Transport hazard class(es)	Not applicable
	Subsidiary shipping hazard	Not applicable
14.4	Packing group	Not applicable
14.5	Environmental hazards	Not applicable
14.6	Special precautions for user	Not applicable
	EmS-No.:	Not applicable
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	Not applicable

# **SECTION 15: Regulatory Information**

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

**National Regulations:** 

Date Printed: 25/03/2021

Denmark Product Registration Number: PR-nr. 894228

Danish MAL Code: Not available

Danish MAL Code - Mixture: 00-5 (1993)

Sweden Product Registration Number: Not available

Norway Product Registration Number: 24061

Germany WGK Class: Not available

Directive 2004/42/CE : <30

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 - Authorisation List:

CAS-No. Name According to EEC

Not Applicable

SVHC - Substances of very high concern (Candidate List):

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:

This product is not classified as hazardous in accordance with EC Regulation 1272/2008/EC.

# Reasons for revision

Substance and/or Product Properties Changed in Section(s): 15 - Regulatory Information

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; European Union Commission Regulation No. 1907/2006 on REACH as amended within Commission Regulation

(EU) 2015/830;

European Union (EC) Regulation No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) and subsequent technical progress adaptations (ATP); EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes".

#### 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

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.