



## 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** DECKSHIELD RAPIDE MEMBRANE (BLU) **Revision Date:** 06/05/2021
- Product Name:** Deckshield Rapide Membrane (blu) **Supersedes Date:** 03/02/2021
- UFI Code:** Y910-H0PY-J003-R4YF
- 1.2 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). 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.
- 1.3 Details of the supplier of the safety data sheet**
- Supplier:** Flowcrete UK Ltd.  
The Flooring Technology Centre  
Booth Lane  
Moston, Sandbach, Cheshire. UK  
CW11 3QF
- Tel: +44 (0)1270 753000  
Fax: +44 (0)1270 753333  
ehs.uk@flowcrete.com  
<http://www.flowcrete.co.uk>
- Datasheet Produced by:** ehs.uk@flowcrete.com
- 1.4 Emergency telephone number:** CHEMTREC +001 703 5273887 (Outside US)  
CHEMTREC 1-800-424-9300 (Inside US)
- Giftinformasjonen: +47 22 59 13 00

## SECTION 2: Hazard Identification

### 2.1 Classification of the substance or mixture

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

#### HAZARD STATEMENTS

Flammable Liquid, category 2	H225
Skin Irritation, category 2	H315
Skin Sensitizer, category 1	H317
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

Danger

#### Named Chemicals on Label

Methyl methacrylate

#### HAZARD STATEMENTS

Flammable Liquid, category 2	H225	Highly flammable liquid and vapour.
Skin Irritation, category 2	H315	Causes skin irritation.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
STOT, single exposure, category 3, RTI	H335	May cause respiratory irritation.
Hazardous to the aquatic environment, Chronic, category 3	H412	Harmful to aquatic life with long lasting effects.

#### PRECAUTION PHRASES

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P235	Keep cool.
P261	Avoid breathing 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.
P333+313	If skin irritation or rash occurs: Get medical advice/attention.
P403+233	Store in a well-ventilated place. Keep container tightly closed.

### 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

<u>Name According to EEC</u>	<u>EINEC No.</u>	<u>CAS-No.</u>	<u>%</u>	<u>Classifications</u>	
Methyl methacrylate	201-297-1	80-62-6	50 - <75	H225-315-317-335	Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3 RTI
2,2'-Ethylenedioxydiethyl dimethacrylate	203-652-6	109-16-0	0.1 - <1.0	H317	Skin Sens. 1
Dodecane-1-thiol		112-55-0	0.1 - <1.0	H314-317-400-410	Aquatic Acute 1, Aquatic Chronic 1, Skin Corr. 1, Skin Sens. 1
2-hydroxyethyl methacrylate	212-782-2	868-77-9	0.1 - <1.0	H315-317-319	Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1
2-(2H-Benzotriazol-2-yl)-p-cresol	219-470-5	2440-22-4	0.1 - <1.0	H317-410	Aquatic Chronic 1, Skin Sens. 1

<u>CAS-No.</u>	<u>M-Factors</u>	<u>REACH Reg No.</u>
80-62-6		01-2119452498-28
109-16-0		01-2119969287-21
112-55-0		
868-77-9		01-2119490169-29
2440-22-4		

**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:** 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. In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

**AFTER INGESTION:** Gently wipe or rinse the inside of the mouth with water. If symptoms persist, call a physician or Poison Control Centre immediately. 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**

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****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**

Explosive reaction may occur on heating or burning. In use, may form flammable/explosive vapour-air mixture.

**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). Flash back possible over considerable distance. In the event of fire, wear self-contained breathing apparatus. Do not use a solid water stream as it may scatter and spread fire. 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. Remove all sources of ignition.

**6.2 Environmental precautions**

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). Ventilate the area. 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**

Take measures to prevent the build up of electrostatic charge. Vapours may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Electrical equipment should be protected to the appropriate standard. Provide exhaust ventilation close to floor level. As a rule, at least 10 air changes per hour are recommended at the workplace. Wear personal protective equipment. Open drum carefully as content may be under pressure. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Keep product and empty container away from heat and sources of ignition. Use only explosion-proof equipment. Have fire extinguishers ready before opening the drum. Do not use sparking tools. 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. 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. Heat, flames and sparks.

**STORAGE CONDITIONS:** Store at room temperature in the original container. Keep in an area equipped with solvent resistant flooring. 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)

Used with Flowfast catalyst. 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>	<u>CAS-No.</u>	<u>LTEL ppm</u>	<u>STEL ppm</u>	<u>STEL mg/m3</u>	<u>LTEL mg/m3</u>
Methyl methacrylate	80-62-6	50	100	416	208
2,2'-Ethylenedioxydiethyl dimethacrylate	109-16-0	400	500	1250	999
Dodecane-1-thiol	112-55-0				
2-hydroxyethyl methacrylate	868-77-9				
2-(2H-Benzotriazol-2-yl)-p-cresol	2440-22-4				

<u>Name</u>	<u>CAS-No.</u>	<u>OEL Note</u>
Methyl methacrylate	80-62-6	
2,2'-Ethylenedioxydiethyl dimethacrylate	109-16-0	
Dodecane-1-thiol	112-55-0	
2-hydroxyethyl methacrylate	868-77-9	
2-(2H-Benzotriazol-2-yl)-p-cresol	2440-22-4	

**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

### Personal Protection

**RESPIRATORY PROTECTION:** Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. In case of insufficient ventilation wear suitable respiratory equipment. Respirator with filter for organic vapor. Respirator with a vapour filter: gas filter type A2 (organic substances).

**EYE PROTECTION:** Eye wash bottle with pure water. Safety goggles. Safety glasses with side-shields conforming to EN 166.

**HAND PROTECTION:** Use chemical resistant gloves (EN 374): Butyl rubber; thickness  $\geq$  0,5 mm; breakthrough time  $\geq$  60 min. Solvent-resistant gloves. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Long sleeved clothing. Remove and wash contaminated clothing before re-use. Protective suit. Remove contaminated clothing and protective equipment before entering eating areas.

**OTHER PROTECTIVE EQUIPMENT:** No Information

**ENGINEERING CONTROLS:** As a rule, at least 10 air changes per hour are recommended at the workplace. Avoid contact with skin, eyes and clothing. Maintain air concentrations below occupational exposure standards. Ensure adequate ventilation, especially in confined areas.

**Chemical Name:**

Methyl methacrylate

**EC No.:**

201-297-1

**CAS-No.:**

80-62-6

**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							
Inhalation			208 mg/m <sup>3</sup>	208 mg/m <sup>3</sup>			104 mg/m <sup>3</sup>	74.3 mg/m <sup>3</sup>
Dermal		1.5 mg/cm <sup>2</sup>	1.5 mg/cm <sup>2</sup>	13.67 mg/kg bw/d	1.5 mg/cm <sup>2</sup>		1.5 mg/cm <sup>2</sup>	8.2 mg/kg bw/d

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

Environmental protection target	PNEC
Fresh water	0.94 mg/l
Fresh water sediments	5.74 mg/kg
Marine water	0.94 mg/l
Marine sediments	
Food chain	
Microorganisms in sewage treatment	
soil (agricultural)	1.47 mg/kg
Air	

**SECTION 9: Physical and Chemical Properties****9.1 Information on basic physical and chemical properties**

<b>Appearance:</b>	Viscous Liquid, pigmented
<b>Physical State</b>	Liquid
<b>Odor</b>	Acrylic-like
<b>Odor threshold</b>	0.05 ppm
<b>pH</b>	Not determined
<b>Melting point / freezing point (°C)</b>	Not determined
<b>Boiling point/range (°C)</b>	101°C (MMA) / 214°F - Not determined
<b>Flash Point, (°C)</b>	12
<b>Evaporation rate</b>	Not determined
<b>Flammability (solid, gas)</b>	Not determined
<b>Upper/lower flammability or explosive limits</b>	2.1 - 12.5
<b>Vapour Pressure</b>	Not determined
<b>Vapour density</b>	Not determined
<b>Relative density</b>	ca. 0.99
<b>Solubility in / Miscibility with water</b>	Insoluble
<b>Partition coefficient: n-octanol/water</b>	1.38 log Pow (MMA)
<b>Auto-ignition temperature (°C)</b>	Not determined
<b>Decomposition temperature (°C)</b>	Not determined
<b>Viscosity</b>	300 - 700 mPa.s @ 25°C

<b>Explosive properties</b>	Not determined
<b>Oxidising properties</b>	Not determined

**9.2 Other information**

**VOC Content g/l:** <10

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. Explosive reaction may occur on heating or burning.

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

Polymerisation occurs when exposed to white light, ultraviolet light or heat.

**10.4 Conditions to avoid**

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

**10.5 Incompatible materials**

Oxidizing agents. Amines. Reducing agents. Heavy metal salts. Avoid radical-forming starting agents, peroxides and reactive metals.

**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). No dangerous reaction known under conditions of normal use.

## SECTION 11: Toxicological Information

**11.1 Information on toxicological effects****Acute Toxicity:**

<b>Oral LD50:</b>	No Information
<b>Inhalation LC50:</b>	No Information

**Irritation:** Skin Irritation, category 2

**Corrosivity:** No information available.

**Sensitization:** Prolonged or repeated skin contact may result in allergic eczema.

**Repeated dose toxicity:** No information available.

**Carcinogenicity:** Non-carcinogenic in inhalation and feeding studies carried out on rats, mice, and dogs. Source: Reference literature for methyl methacrylate.

**Mutagenicity:** Not mutagenic according to internationally accepted criteria. Source: Reference literature (methyl methacrylate).

**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:

<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>
80-62-6	Methyl methacrylate	7872 mg/kg (rat)	>5000 mg/kg (rabbit)	3750 ppm (rat)	0.000	29.8 mg/l
109-16-0	2,2'-Ethylendioxydiethyl dimethacrylate	10750 mg/kg (mouse)	> 2000 mg/kg (mouse)		0.000	0.000
2440-22-4	2-(2H-Benzotriazol-2-yl)-p-cresol	> 10000 mg/kg (rat)	> 2000 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.

## SECTION 12: Ecological Information

**12.1 Toxicity:**

<b>EC50 48hr (Daphnia):</b>	No information
<b>IC50 72hr (Algae):</b>	No information
<b>LC50 96hr (fish):</b>	No information

**12.2 Persistence and degradability:** MMA: 94 %, OECD 301 C.

**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 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>
80-62-6	Methyl methacrylate	69 mg/l (OECD 202)	>110 mg/l	79 mg/l (OECD 203)
109-16-0	2,2'-Ethylendioxydiethyl dimethacrylate	No information	No information	
112-55-0	Dodecane-1-thiol	No information	No information	No information
868-77-9	2-hydroxyethyl methacrylate	No information	No information	227 mg/l
2440-22-4	2-(2H-Benzotriazol-2-yl)-p-cresol	No information	No information	No information

## SECTION 13: Disposal Considerations

**13.1 WASTE TREATMENT METHODS:** Do not burn, or use a cutting torch on, the empty drum. 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:** 080111\*  
**Packaging Waste Code:** 150110



**SECTION 14: Transport Information**

14.1	UN number	UN1866
14.2	UN proper shipping name	Resin solution
	Technical name	Not applicable
14.3	Transport hazard class(es)	3
	Subsidiary shipping hazard	Not applicable
14.4	Packing group	II
14.5	Environmental hazards	Not applicable
14.6	Special precautions for user	Not applicable
	EmS-No.:	F-E, <u>S-E</u>
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:**

Denmark Product Registration Number:	Not available
Danish MAL Code:	3-5
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
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:**

H225	Highly flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

**Reasons for revision**

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

01 - Identification

15 - Regulatory Information

Substance CAS Number 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;  
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.