

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 TOPCOAT Revision Date: 19/01/2017

Product Name: Deckshield Rapide Topcoat Supercedes Date: 28/05/2015

1.2 Relevant identified uses of the substance or mixture and uses advised against Coatings and paints, thinners, paint removers. Hand-mixing with intimate contact and only PPE available. Wide dispersive indoor use resulting in inclusion into or onto a matrix. Wide dispersive outdoor use resulting in inclusion into or onto a matrix. 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)

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

Date Printed: 19/01/2017

Label elements

Symbol(s) of Product



Signal Word

Danger

2.2

Named Chemicals on Label

Methyl methacrylate, 2-Ethylhexyl acrylate

HAZARD STATEMENTS

Flammable Liquid, category 2

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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.
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.
	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.

Store in a well-ventilated place. Keep container tightly closed.

Highly flammable liquid and vapour.

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.

P403+233

H225

SECTION 3: Composition/Information On Ingredients

3.2 Mixtures

Hazardous Ingredients

CAS-No.	EINEC No.	Name According to EEC	<u>%</u>
80-62-6	201-297-1	Methyl methacrylate	25-50
103-11-7	203-080-7	2-Ethylhexyl acrylate	2.5-10
38668-48-3	254-075-1	1,1'-(p-tolylimino)dipropan-2-ol	1.0-2.5

CAS-No.	REACH Reg No.	CLP Symbols	CLP Hazard Statements	M-Factors
80-62-6	01-2119452498-28	GHS02-GHS07	H225-315-317-335	
103-11-7	01-2119453158-37	GHS07	H315-317-335-412	
38668-48-3		GHS06	H301-412	

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)

CAS-No.	LTEL ppm	STEL ppm	STEL mg/m3	LTEL mg/m3
80-62-6	50	100	416	208
103-11-7				
38668-48-3				
CAS-No OFL	Note			
	80-62-6 103-11-7 38668-48-3	80-62-6 50 103-11-7	80-62-6 50 100 103-11-7 38668-48-3	80-62-6 50 100 416 103-11-7 38668-48-3

Methyl methacrylate 80-62-6

2-Ethylhexyl acrylate 103-11-7

1,1'-(p-tolylimino)dipropan-2-ol 38668-48-3

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. **EYE PROTECTION:** Eye wash bottle with pure water. Safety goggles. Safety glasses with side-shields conforming to EN166.

HAND PROTECTION: Solvent-resistant gloves. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. 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. 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.: CAS-No.: 201-297-1 80-62-6

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			208 mg/m ³	208 mg/m ³			104 mg/m ³	74.3 mg/m ³
Dermal		1.5 mg/cm ²	1.5 mg/cm ²	13.67 mg/kg bw/	1.5 mg/cm ²		1.5 mg/cm ²	8.2 mg/kg bw/d
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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	

Chemical Name:

2-Ethylhexyl acrylate

EC No.: CAS-No.: 203-080-7 103-11-7

DNELs - Derived no effect level

		Wo	rkers			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			37.5 mg/m ³		_		4.5 mg/m ³	
Dermal	0.242 mg/cm ²				0.242 mg/cm ²		·	

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	2.72 μg/l
Fresh water sediments	0.126 mg/kg
Marine water	0.272 μg/l
Marine sediments	12.6 μg/kg
Food chain	
Microorganisms in sewage treatment	2.3 mg/l
soil (agricultural)	1 mg/kg
Air	

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties
Appearance: miscellaneous colours

Physical State Liquid

Odor Strong MMA smell

Odor threshold 0.05 ppm

pH Not determined

Melting point / freezing point (°C) Not determined

Boiling point/range (°C) 101 - N.D.

Flash Point, (°C)

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

Upper/lower flammability or explosive

limits

2.1 - 12.5

Vapour Pressure 38.7 hPa

Vapour density Not determined

Relative density ca. 1.23

Solubility in / Miscibility with water Insoluble

Partition coefficient: n-octanol/water log Pow 1.38 (MMA)

Auto-ignition temperature (°C) 245°C

 Decomposition temperature (°C)
 Not determined

 Viscosity
 Not determined

 Explosive properties
 Not determined

 Oxidising properties
 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:

Oral LD50: No Information Inhalation LC50: 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

(methly 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:

CAS-No.	Name According to EEC	Oral LD50	Dermal LD50	Vapor LC50
80-62-6	Methyl methacrylate	7872 mg/kg (rat)	>5000 mg/kg (rabbit)	3750 ppm (rat)
103-11-7	2-Ethylhexyl acrylate	4435 mg/kg (rat)	7522 mg/kg (rabbit)	
38668-48-3	1,1'-(p-tolylimino)dipropan-2-ol	100 mg/kg (rat)		

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.

SECTION 12: Ecological Information

12.1 Toxicity:

EC50 48hr (Daphnia):

IC50 72hr (Algae):

No information

No information

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

assessment:

12.6 Other adverse effects: No information

CAS-No.	Name According to EEC	EC50 48hr	IC50 72hr	LC50 96hr
80-62-6	Methyl methacrylate	69 mg/l (OECD 202)	>110 mg/l	79 mg/l (OECD 203)
103-11-7	2-Ethylhexyl acrylate	17.45 mg/l	44 mg/l (Desmodesmus subspicatus)	4.6 mg/l
38668-48-3	1,1'-(p-tolylimino)dipropan-2-ol	No information	No information	No information

Further Ecological Information

Contains the following ingredients which are classified as water dangerous according to EEC directive No. 76/464/EEC in percentages > 1%.

<u>CAS-No.</u> <u>Name According to EEC</u> 38668-48-3 1,1'-(p-tolylimino)dipropan-2-ol

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 UN186614.2 UN proper shipping name Resin solution

Technical name (contains Methyl methacrylate)

14.3 Transport hazard class(es)

Subsidiary shipping hazard Not applicable

14.4 Packing group

14.5 Environmental hazards Not applicable
14.6 Special precautions for user Not applicable
EmS-No.: F-E, S-E

14.7 Transport in bulk according to Annex II Not applicable of MARPOL 73/78 and the IBC code

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 availableSweden Product Registration Number:Not availableNorway Product Registration Number:Not available

WGK Class:

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.
H301	Toxic if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Reasons for revision

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

02 - Hazards Identification

08 - Exposure Controls/Personal Protection

11 - Toxicological Information14 - Transportation Information

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; 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

Short term exposure limit STEL OEL Occupational exposure limit

ppm Parts per million

mg/m3 Milligrams per cubic meter Threshold Limit Value VIT

American Conference of Governmental Industrial Hygienists ACGIH

Occupational Safety & Health Administration OSHA

Permissible Exposure Limits Volatile organic compounds VOC

Grams per liter g/l

Milligrams per kilogram mg/kg

Not applicable N/A LD50 Lethal dose at 50%

LC50 Lethal concentration at 50%

EC50 Half maximal effective concentration Half maximal inhibitory concentration IC50 Persistent bioaccumulative toxic chemical PBT Very persistent and very bioaccumulative vPvB

EEC European Economic Community

International Transport of Dangerous Goods by Road ADR 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

International Bulk Container RTI Respiratory Tract Irritation

Narcotic Effects NE

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.