

# Material Safety Datasheet Flortex® Fastset Colour - Resin Part A

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY

1.1 Product Identifier

**Product Name:** Flortex Fastset Colour - Resin Part A 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant uses: Resin. For professional users/industrial user only. Material uses:

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet

**Company Name:** Polycote UK LLP Centre Point

Wolseley Road

Woburn Road Industrial Estate

Kempston Beds MK42 7EF

Telephone Number: 01234 846400 111 (NHS England) **Emergency Contact Number: Email address:** uksales@polycote.com

#### **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture:

This product contains crystalline silica but due to its liquid state does not require classification (STOT RE)

#### **GB CLP Regulation:**

Classification of this product has been carried out in accordance with GB CLP Regulation.

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411

Eye Irrit. 2: Eye irritation, Category 2, H319 Skin Irrit. 2: Skin irritation, Category 2, H315

Skin Sens. 1A: Sensitisation, skin, Category 1A, H317

2.2 Label elements

**GB CLP Regulation:** Signal word:

Hazard pictograms:

**Hazard statements:** Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.

Eye Irrit. 2: H319 - Causes serious eye irritation. Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1A: H317 - May cause an allergic skin reaction.

**Precautionary statements:** P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

Warning

P264: Wash thoroughly after use. P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/respiratory protection/eye protection/protective footwear.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P337+P313: If eye irritation persists: Get medical advice/attention.

P391: Collect spillage.

P501: Dispose of the contents and/or its container in line with regulations on dangerous waste or packaging

and waste packaging respectively.

Supplementary information: Contains bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane, tetraethyl N, N'-

(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate.

EUH211: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Substances that contribute to the

classification:

1,3,3-trimethyl-N-(2-methylpropylidene)-5-[(2-methylpropylidene)amino]cyclohexanemethylamine

2.3 Other hazards: Product fails to meet PBT/vPvB criteria

## **SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Resin

1 - <3 %

#### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS (continue) Components: In accordance with Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, the product contains: Identification Chemical name/Classification Concentration CAS: 136210-30-5 tetraethyl N, N´-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate 25 - <50 % Aquatic Chronic 3: H412; Skin Sens. 1: H317 - Warning CAS: 14464-46-1 Cristobalite (RCS > 10 %) 15 - <25 % STOT RE 1: H372 - Danger CAS: 136210-32-7 bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane 10 - <15 % Aquatic Chronic 3: H412; Skin Sens. 1: H317 - Warning CAS: 13463-67-7 Titanium dioxide (aerodynamic diameter ≤ 10 μm) 5 - < 10 % Carc. 2: H351 - Warning CAS: 38640-62-9 Bis(isopropyl)naphthalene 1 - <3 % Aquatic Chronic 1: H410; Asp. Tox. 1: H304 - Danger CAS: 623-91-6 Diethyl fumarate 1 - <3 % Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315; STOT SE 3: H335 - Warning 1,3,3-trimethyl-N-(2-methylpropylidene)-5-[(2-methylpropylidene)amino] CAS: 54914-37-3 1 - <3 %

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

3-butyl-2-(1-ethylpentyl)oxazolidine

Skin Corr. 1C: H314; Skin Sens. 1A: H317 - Danger

cvclohexanemethylamine

Aquatic Chronic 2: H411

#### **SECTION 4: FIRST-AID MEASURES**

CAS: 165101-57-5

#### 4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation: This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is

recommended to remove the person affected from the area of exposure, provide clean air and keep at rest.

 $\label{lem:reduced} \textbf{Request medical attention if symptoms persist.}$ 

**By skin contact:** Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing,

clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form

on the skin, these should never be burst as this will increase the risk of infection.

**By eye contact:**Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to

the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted

as quickly as possible with the SDS of the product.

By ingestion/aspiration: Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected

at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.  $\label{eq:control}$ 

### 4.2 Most important symptoms and effects, both acute and delayed

Acute and delayed effects are indicated in sections 2 and 11.

## 4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

SECTION 5: FIRE-FIGHTING MEASURES	
5.1 Extinguishing media:	
Suitable extinguishing media:	Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.
Unsuitable extinguishing media	Non-applicable.
5.2 Special hazards arising from the substance or mixture:	As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.
5.3 Advice for firefighters:	Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,).
Additional provisions:	Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection

equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and

keep out those who do not have protection.

For emergency responders: Wear protective equipment. Keep unprotected persons away. See section 8.

**6.2 Environmental precautions:** Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in

hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the

environment.

6.3 Methods and material for containment

and cleaning up:

It is recommended: Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb

in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

**6.4 Reference to other sections:** See sections 8 and 13.

#### **SECTION 7: HANDLING AND STORAGE**

#### 7.1 Precautions for safe handling: A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling

weights. Maintain order, cleanliness and destroy using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult

section 10 for information on conditions and materials that should be avoided.

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

C.- Technical recommendations on general occupational hygiene

Due to the danger of this product for the environment it is recommended to use it within an area containing

contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2 Conditions for safe storage, including

any Incompatibilities:

A.- Technical measures for storage

Minimum Temp: 2 °C
Maximum Temp: 35 °C
Maximum time: 24 Months
B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see

subsection 10.5

7.3 Specific end use(s) Except for the instructions already specified it is not necessary to provide any special recommendation

regarding the uses of this product.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace:

EH40/2005 Workplace exposure limits, fourth edition, published 2020:

Identification	Occupation	onal exposure limit
Titanium dioxide (aerodynamic diameter ≤ 10 μm)	WEL (8h)	4 mg/m <sup>3</sup>
CAS: 13463-67-7	WEL (15 min)	
Cristobalite (RCS > 10 %)	WEL (8h)	0.1 mg/m <sup>3</sup>
CAS: 14464-46-1	WEL (15 min)	
Barium Sulfate	WEL (8h)	4 mg/m³
CAS: 7727-43-7	WEL (15 min)	

ONEL (Workers):		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
tetraethyl N, N´-(methylenedicyclohexane-4,1-diyl)bis- DLaspartate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 136210-30-5	Dermal	Non-applicable	Non-applicable	4 mg/kg	Non-applicable
EC: 429-270-1	Inhalation	Non-applicable	Non-applicable	28 mg/m <sup>3</sup>	Non-applicable
bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3- methylcyclohexyl)methane	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 136210-32-7	Dermal	Non-applicable	Non-applicable	11.9 mg/kg	Non-applicable
EC: 412-060-9	Inhalation	Non-applicable	Non-applicable	84 mg/m <sup>3</sup>	Non-applicable
Bis(isopropyl)naphthalene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 38640-62-9	Dermal	Non-applicable	Non-applicable	2.38 mg/kg	Non-applicable
EC: 254-052-6	Inhalation	Non-applicable	Non-applicable	8.4 mg/m <sup>3</sup>	Non-applicable

SECTION 8: EXPOSURE CONTROLS/PERSONAL	PROTECTION (cor	ntinue)					
DNEL (Workers): cont			Short e	xposu	ire	Lon	g exposure
Identification	n		Systemic		Local	Systemic	Local
1,3,3-trimethyl-N-(2-methylpropylidene)-5-methylpropylidene)amino]cyclohexanemet		Oral	Non-applicable	Nor	n-applicable	Non-applicab	le Non-applicable
CAS: 54914-37-3		Dermal	Non-applicable	Nor	n-applicable	Non-applicab	le Non-applicable
EC: 259-393-4		Inhalation	Non-applicable	Nor	n-applicable	150 mg/m <sup>3</sup>	Non-applicable
DNEL (General population)			Short e	xposu	ire	Lon	g exposure
Identificatio	n		Systemic		Local	Systemic	Local
tetraethyl N, N´-(methylenedicyclohexane-4 DLaspartate	l,1-diyl)bis-	Oral	1.4 mg/kg	Nor	n-applicable	1.4 mg/kg	Non-applicable
CAS: 54914-37-3		Dermal	1.4 mg/kg	Nor	n-applicable	1.4 mg/kg	Non-applicable
EC: 259-393-4		Inhalation	Non-applicable	Nor	n-applicable	4.8 mg/m <sup>3</sup>	Non-applicable
bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3 methylcyclohexyl)methane	3-	Oral	4.2 mg/kg	Nor	n-applicable	4.2 mg/kg	Non-applicable
CAS: 136210-32-7		Dermal	4.2 mg/kg	Nor	n-applicable	4.2 mg/kg	Non-applicable
EC: 412-060-9		Inhalation	Non-applicable	Nor	n-applicable	14.5 mg/m <sup>3</sup>	Non-applicable
Bis(isopropyl)naphthalene		Oral	Non-applicable	Nor	n-applicable	0.85 mg/kg	Non-applicable
CAS: 38640-62-9		Dermal	Non-applicable	Nor	n-applicable	0.85 mg/kg	Non-applicable
EC: 254-052-6		Inhalation	Non-applicable	Nor	n-applicable	1.48 mg/m <sup>3</sup>	Non-applicable
1,3,3-trimethyl-N-(2-methylpropylidene)-5-methylpropylidene)amino]cyclohexanemet		Oral	Non-applicable	Nor	n-applicable	0.526 mg/kg	Non-applicable
CAS: 54914-37-3		Dermal	Non-applicable	Nor	n-applicable	Non-applicab	le Non-applicable
EC: 259-393-4		Inhalation	Non-applicable	Nor	n-applicable	Non-applicab	le Non-applicable
PNEC:							
Identificatio	n						
tetraethyl N, N'-(methylenedicyclohexane-4 DLaspartate	l,1-diyl)bis-	STP	31.1 mg/L		Fresh water		0 mg/L
CAS: 54914-37-3		Soil	0.1 mg/kg		Marine wate	er	0 mg/L
EC: 259-393-4		Intermittent	Non-applicable		Sediment (F	resh water)	0.21 mg/kg
		Oral	Non-applicable		Sediment (M	larine water)	0.02 mg/kg
bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-s methylcyclohexyl)methane	3-	STP	31.1 mg/L		Fresh water		0 mg/L
CAS: 136210-32-7		Soil	0.1 mg/kg		Marine wate	er	0 mg/L
EC: 412-060-9		Intermittent	Non-applicable		Sediment (F	resh water)	0.21 mg/kg
		Oral	Non-applicable		Sediment (N	1arine water)	0.02 mg/kg
Bis(isopropyl)naphthalene		STP	0.15 mg/L		Fresh water		0 mg/L
CAS: 38640-62-9		Soil	0.171 mg/kg		Marine wate	er	0 mg/L
EC: 254-052-6		Intermittent	Non-applicable		Sediment (F	resh water)	0.853 mg/kg
		Oral	0.025 g/kg		Sediment (N	1arine water)	0.085 mg/kg
1,3,3-trimethyl-N-(2-methylpropylidene)-5-methylpropylidene)amino]cyclohexanemet		STP	3.04 mg/L		Fresh water		0.015 mg/L
CAS: 54914-37-3		Soil	Non-applicable		Marine wate	er	0.001 mg/L
FC: 3F0 303 4			0.447//		6 1: ./=		

## 8.2 Exposure controls:

EC: 259-393-4

### A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<UKCA marking>>. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

0.147 mg/L

Non-applicable

Sediment (Fresh water)

Sediment (Marine water)

Non-applicable

Non-applicable

Intermittent

Oral

#### **B.** Respiratory protection

Pictogram	PPE	Remarks
Mandatory respiratory tract protection	Filter mask for gases and vapours	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)

## C. Specific protection for the hands

Pictogram	PPE	Remarks
Mandatory hand protection	Chemical protective gloves (Material: Nitrile, Breakthrough time: > 480 min, Thickness: 0.1 mm)	Replace the gloves at any sign of deterioration.

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

## D. Eye and face protection

Pictogram	PPE	Remarks
	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions.  Use if there is a risk of splashing.
Mandatory face		
protection		

#### E. Body protection

Pictogram	PPE Remarks		
	Work clothing	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.	
	Anti-slip work shoes	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2012 y EN 13832-1:2007	

#### F. Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
-	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	<b>©+</b>	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Emergency shower		Eyewash stations	

## Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### 9.1 Information on basic physical and chemical properties

For complete information see the product datasheet.

#### **Appearance**

Physical state at 20 °C:

Appearance:

Colour:

Odour:

Odour threshold:

Liquid

Viscous

Several

Characteristic

Non-applicable \*

## Volatility:

Boiling point at atmospheric pressure: 245 °C Vapour pressure at 20 °C: 6 Pa

Vapour pressure at 50 °C: 48.94 Pa (0.05 kPa) Evaporation rate at 20 °C: Non-applicable \*

#### **Product description:**

1464.7 kg/m<sup>3</sup> Density at 20 °C: Relative density at 20 °C: 1.465 Dynamic viscosity at 20 °C: Non-applicable \* Kinematic viscosity at 20 °C: Non-applicable \* >20.5 mm<sup>2</sup>/s Kinematic viscosity at 40 °C: Concentration: Non-applicable \* Non-applicable \* Non-applicable \* Vapour density at 20 °C: Partition coefficient n-octanol/water 20 °C: Non-applicable \* Solubility in water at 20 °C: Non-applicable \* Solubility properties: **Immiscible** 

\*Not relevant due to the nature of the product, not providing information property of its hazards

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#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continue)

Non-applicable \* Decomposition temperature: Non-applicable \* Melting point/freezing point:

Flammability:

92 °C Flash Point:

Flammability (solid, gas): Non-applicable \* Autoignition temperature: 245 °C Lower flammability limit: Non-applicable \*

Upper flammability limit: Non-applicable \*

Particle characteristics

Median equivalent diameter: Non-applicable

9.2 Other information

Information with regard to physical hazard classes:

Explosive properties: Non-applicable \* Oxidising properties: Non-applicable \* Corrosive to metals: Non-applicable \* Heat of combustion: Non-applicable \* Aerosols-total percentage (by mass) of flammable Non-applicable \*

Other safety characteristics:

Surface tension at 20 °C: Non-applicable \* Non-applicable \* Refraction index:

\*Not relevant due to the nature of the product, not providing information property of its hazards

## **SECTION 10: STABILITY AND REACTIVITY**

10.1 Reactivity: No hazardous reactions are expected because the product is stable under recommended storage

conditions. See section 7.

10.2 Chemical stability: Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions: Under the specified conditions, hazardous reactions that lead to excessive temperatures or

pressure are not expected.

#### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Ė	Shock and friction	Combook with air	In an analysis to the same a material	Climba	Harrie I alia.
	Snock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

## 10.5 Incompatible materials:

ſ	Acids	Water	Oxidising materials	Combustible materials	Others
ĺ	Avoid strong acids	Not applicable	Precaution	Not applicable	Avoid alkalis or strong bases

## 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

## 11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

#### Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

#### A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

## B- Inhalation (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

#### C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces eye damage after contact.

#### D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with carcinogenic effects. For more information see section 3.
- IARC: Titanium dioxide (aerodynamic diameter ≤ 10 µm) (2B); Zeolites (3); Cristobalite (RCS > 10 %) (1)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

## E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

#### **SECTION 11: TOXICOLOGICAL INFORMATION (continue)**

#### F- Specific target organ toxicity (STOT) - single exposure:

 Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.

#### G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as
  it does not contain substances classified as hazardous for this effect.
  For more information see section 3.

#### H- Aspiration hazard:

 Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

#### Other information:

CAS 13463-67-7 Titanium dioxide (aerodynamic diameter  $\leq 10~\mu m$ ): 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  $\leq 10~\mu m$ 

#### Specific toxicology information on the substances:

Identification	Acute	e toxicity	Genus
tetraethyl N, N´-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate	LD50 oral	>5000 mg/kg	
CAS: 136210-30-5	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	
Diethyl fumarate	LD50 oral	1780 mg/kg	Rat
CAS: 623-91-6	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	
Titanium dioxide (aerodynamic diameter ≤ 10 μm)	LD50 oral	10000 mg/kg	Rat
CAS: 13463-67-7	LD50 dermal	10000 mg/kg	Rabbit
	LC50 inhalation	>5 mg/L	
Cristobalite (RCS > 10 %)	LD50 oral	>5000 mg/kg	
CAS: 14464-46-1	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>5 mg/L	
bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane	LD50 oral	>5000 mg/kg	
CAS: 136210-32-7	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	
3-butyl-2-(1-ethylpentyl)oxazolidine	LD50 oral	>5000 mg/kg	
CAS: 165101-57-5	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	
Bis(isopropyl)naphthalene	LD50 oral	4130 mg/kg	Rat
CAS: 38640-62-9	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	
1,3,3-trimethyl-N-(2-methylpropylidene)-5-[(2-methylpropylidene)amino] cyclohexanemethylamine	LD50 oral	4150 mg/kg	Rat
CAS: 54914-37-3	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	

## Acute Toxicity Estimate (ATE mix):

ATE mix		Ingredient(s) of unknown toxicity
Oral 79585.08 mg/kg (Calculation method)		0 %
Dermal	>5000 mg/kg (Calculation method)	Non-applicable
Inhalation	>20 mg/L (4 h) (Calculation method)	Non-applicable

#### **SECTION 12: ECOLOGICAL INFORMATION**

The experimental information related to the eco-toxicological properties of the product itself is not available

## 12.1 Toxicity

## Acute toxicity:

Identification		Concentration	Species	Genus
tetraethyl N, N´-(methylenedicyclohexane-4,1-diyl)bis-DL- aspartate	LC50	66 mg/L (96 h)	Brachydanio rerio	Fish
CAS: 136210-30-5	EC50	88.6 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		
bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3- methylcyclohexyl)methane	LC50	>10 - 100 mg/L (96 h)		Fish
CAS: 136210-32-7	EC50	>10 - 100 mg/L (48 h)		Crustacean
	EC50	>10 - 100 mg/L (72 h)		Algae
Bis(isopropyl)naphthalene	LC50	>0.1 - 1 mg/L (96 h)		Fish
CAS: 38640-62-9	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
	EC50	>0.1 - 1 mg/L (72 h)		Algae

## **SECTION 12: ECOLOGICAL INFORMATION (continue)**

Identification		Concentration	Species	Genus
1,3,3-trimethyl-N-(2-methylpropylidene)-5-[(2-methylpropylidene)amino]cyclohexanemethylamine	LC50	Non-applicable		
CAS: 54914-37-3	EC50	30.7 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	257.5 mg/L (72 h)	Scenedesmus subspicatus	Algae
3-butyl-2-(1-ethylpentyl)oxazolidine	LC50	>1 - 10 mg/L (96 h)		Fish
CAS: 165101-57-5	EC50	>1 - 10 mg/L (48 h)		Crustacean
	EC50	>1 - 10 mg/L (72 h)		Algae

#### Chronic toxicity:

Identification		Concentration	Species	Genus
tetraethyl N, N´-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate	NOEC	Non-applicable		
CAS: 136210-30-5	NOEC	0.013 mg/L	Daphnia magna	Crustacean
Bis(isopropyl)naphthalene	NOEC	Non-applicable		
CAS: 38640-62-9	NOEC	0.04 mg/L	Daphnia magna	Crustacean

#### 12.2 Persistence and degradability:

#### Substance-specific information:

Identification Degradability		Degradability Biodegradability		dability
Bis(isopropyl)naphthalene	BOD5	Non-applicable	Concentration	1.1 mg/L
CAS: 38640-62-9	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	%	17 %
	BOD5/COD		Biodegradable	17 /0

## 12.3 Bioaccumulative potential

#### Substance-specific information:

Identification		Bioaccumulation potential
Bis(isopropyl)naphthalene	BCF	2500
CAS: 38640-62-9	Pow Log	
	Potential	Very High

#### 12.4 Mobility in soil:

Identification Absorption/desorption		Volatility		
Bis(isopropyl)naphthalene	Кос	Non-applicable	Henry	202 Pa·m³/mol
CAS: 38640-62-9	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable

## 12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

#### 12.6 Other adverse effects:

Not described

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

### 13.1 Waste treatment methods

Code	Description	Waste class
20 01 27*	paint, inks, adhesives and resins containing hazardous substances	Dangerous

#### Type of waste:

HP14 Ecotoxic, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP13 Sensitising

## Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

## Regulations related to waste management:

In accordance with Annex II of UK REACH the provisions related to waste management are stated:

UK legislation: The Waste Regulations 2011.

### **SECTION 14: TRANSPORT INFORMATION**

## Transport of dangerous goods by land:

With regard to ADR 2021 and RID 2021:

14.4



**14.1 UN number:** UN3082

14.2 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis

(isopropyl)naphthalene)

14.3 Transport Hazard Class(es): 9

Label(s): 9
Packing group III

#### SECTION 14: TRANSPORT INFORMATION (continue)

14.7

#### Transport of dangerous goods by land:

With regard to ADR 2021 and RID 2021:

14.5 Environmental hazards: Yes14.6 Special precautions for user

Transport in bulk according to Annex II of

Tunnel restriction code:

Physico-Chemical properties: see section 9

Limited quantities: 5 L

Marpol and the IBC Code

Non-applicable

#### Transport of dangerous goods by sea:

With regard to IMDG 40-20:



**14.1 UN number:** UN3082

**14.2** UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis

(isopropyl)naphthalene)

 14.3
 Transport Hazard Class(es):
 9

 Label(s):
 9

 14.4
 Packing group
 III

 14.5
 Marine pollutant:
 Yes

14.6 Special precautions for user

Special regulations: 335, 969, 274
EmS Codes: F-A, S-F
Physico-Chemical properties: see section 9
Limited quantities: 5 L

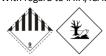
Segregation group: Non-applicable

7 Transport in bulk according to Annex II of Non-applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

## Transport of dangerous goods by air:

With regard to IATA/ICAO 2022:



14.1 UN number: UN3082

**14.2** UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis

(isopropyl)naphthalene)

 14.3
 Transport Hazard Class(es):
 9

 Label(s):
 9

 14.4
 Packing group
 III

 14.5
 Environmental hazards:
 Yes

14.6 Special precautions for user

Physico-Chemical properties: see section 9

Transport in bulk according to Annex II of Non-applicable

Marpol and the IBC Code

# SECTION 15: REGULATORY INFORMATION

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:** Substances listed in UK candidate list of substances of very high concern (SVHCs): Non-applicable
- Substances listed in UK REACH Authorisation List (Annex 14): Non-applicable

## The Control of Major Accident Hazards Regulations 2015:

14.7

Section	Description	Lower-tier requirement	Upper-tier requirements
E2	ENVIRONMENTAL HAZARDS	200	500

## Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK REACH, etc ....):

Shall not be used in

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

 $Occupational\ exposure\ to\ respirable\ crystalline\ silica\ must\ be\ controlled\ pursuant\ to\ Directive\ (EU)\ 2019/130.$ 

#### Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

## Other legislation:

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.

Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits.

#### **SECTION 16: OTHER INFORMATION**

#### Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

#### Texts of the legislative phrases mentioned in section 2:

H317: May cause an allergic skin reaction.

H411: Toxic to aquatic life with long lasting effects.

H315: Causes skin irritation.

H319: Causes serious eve irritation.

#### Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

## **GB CLP Regulation:**

Acute Tox. 4: H302 - Harmful if swallowed.

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.

Carc. 2: H351 - Suspected of causing cancer (Inhalation).

Eye Irrit. 2: H319 - Causes serious eye irritation.

Skin Corr. 1C: H314 - Causes severe skin burns and eye damage.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Skin Sens. 1A: H317 - May cause an allergic skin reaction.

STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure (Inhalation).

STOT SE 3: H335 - May cause respiratory irritation.

#### Classification procedure:

Skin Sens. 1A: Calculation method Aquatic Chronic 2: Calculation method Skin Irrit. 2: Calculation method

Eye Irrit. 2: Calculation method

#### Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

#### Principal bibliographical sources:

http://echa.europa.eu

http://eur-lex.europa.eu

#### Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50 EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient

Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at UK, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

Rev: 11/09/2025



# Material Safety Datasheet Flortex® Fastset Colour - Hardener Part B

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY

1.1 Product Identifier

**Product Name:** Flortex Fastset Colour - Hardener Part B 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant uses: Resin. For professional users/industrial user only. Material uses:

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet

Polycote UK LLP **Company Name:** Centre Point

Wolseley Road

Woburn Road Industrial Estate

Kempston Beds MK42 7EF

Telephone Number: 01234 846400 111 (NHS England) **Emergency Contact Number: Email address:** uksales@polycote.com

#### **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture:

#### **GB CLP Regulation:**

Classification of this product has been carried out in accordance with GB CLP Regulation.

Acute Tox. 4: Acute inhalation toxicity, Category 4, H332 Skin Sens. 1: Sensitisation, skin, Category 1, H317

STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335

2.2 Label elements **GB CLP Regulation:** 

Warning Signal word: Hazard pictograms:

**Hazard statements:** Acute Tox. 4: H332 - Harmful if inhaled.

> Skin Sens. 1: H317 - May cause an allergic skin reaction. STOT SE 3: H335 - May cause respiratory irritation.

Precautionary statements: P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P271: Use only outdoors or in a well-ventilated area.

P272: Contaminated work clothing should not be allowed out of the workplace.

P280: Wear protective gloves/protective clothing/respiratory protection/eye protection/protective footwear.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312: Call a POISON CENTER or doctor/physician if you feel unwell. P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P501: Dispose of the contents and/or its container in line with regulations on dangerous waste or packaging

and waste packaging respectively.

Supplementary information:

Substances that contribute to the

EUH204: Contains isocyanates. May produce an allergic reaction. Hexamethylene diisocyanate, oligomers

classification: 2.3 Other hazards: Product fails to meet PBT/vPvB criteria

## **SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

## 3.1 Substance:

Non-applicable

#### 3.2 Mixture:

Chemical description: Isocyanate/s

#### Components:

In accordance with Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, the product contains:

Identification	Chemical name/Classification		Concentration	
CAS: 28182-81-	Hexamethylene diisocyanate, oligomers		75 - <100 %	
	Acute Tox. 4: H332; Skin Sens. 1: H317; STOT SE 3: H335 – Warning			
CAS: 822-06-0	06-0 Hexamethylene-di-isocyanate		<0.1 %	
	Acute Tox. 1: H330; Acute Tox. 4: H302; Eye Irrit. 2: H319; Resp. Sens. 1: H334; Skin Irrit. 2:			
	H315; Skin Sens. 1: H317; STOT SE 3: H335 - Danger			
To obtain more information on the hazards of the substances consult sections 11, 12 and 16.				

SI	SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS (continue)				
0	Other information:				
	Identification	Specific concentration limit			
	Hexamethylene-di-isocyanate	% (w/w) >=0.5: Resp. Sens. 1 - H334			
	CAS: 822-06-0	% (w/w) >=0.5: Skin Sens. 1 - H317			

#### **SECTION 4: FIRST-AID MEASURES**

#### 4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation: Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases

such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth

resuscitation, cardiac massage, oxygen supply,etc.) requiring immediate medical assistance.

By skin contact: May cause an allergic skin reaction. In case of contact it is recommended to clean the affected area thoroughly

with water and neutral soap. In case of changes on the skin (stinging, redness, rashes, blisters,...), seek medical

advice with this Safety Data Sheet.

By eye contact: Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or

close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted

as quickly as possible with the SDS of the product.

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected By ingestion/aspiration:

at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

#### 4.2 Most important symptoms and effects, both acute and delayed

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

CECT	ION E.	FIDE FIGURE	ING MEASURES	а.
SECI	IUN 3.	FINE-FIGHT	TING IVIEASURE	• 1

5.1 Extinguishing media:

Suitable extinguishing media: Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as

a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in

accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media

5.2 Special hazards arising from the

substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained

breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets,

portable first aid kit,...).

Non-applicable.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid

spillage of the products used to extinguish the fire into an aqueous medium.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection For non-emergency personnel:

equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and

keep out those who do not have protection.

For emergency responders: Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions: This product is not classified as hazardous to the environment. Keep product away from drains, surface and

ground water.

6.3 Methods and material for containment

and cleaning up:

It is recommended: Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb

in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections: See sections 8 and 13.

#### **SECTION 7: HANDLING AND STORAGE**

7.1 Precautions for safe handling: A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the

container. Maintain order and cleanliness where dangerous products are used.

#### **SECTION 7: HANDLING AND STORAGE (continue)**

#### B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

#### C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

#### D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any Incompatibilities:

A.- Technical measures for storage

Minimum Temp: 2 °C Maximum Temp: 35 °C Maximum time: 24 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see

subsection 10.5

**7.3 Specific end use(s)** Except for the instructions already specified it is not necessary to provide any special recommendation

regarding the uses of this product.

#### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace:

BIOLOGICAL MONITORING GUIDANCE VALUES (BMGVS) - EH40/2005 - Isocyanates (applies to HDI, IPDI, TDI and MDI): 1  $\mu$ mol isocyanate-derived diamine/mol creatinine in urine. Sampling Time: At the end of the period of exposure.

ONEL (Workers):	Short exposure		Long exposure		
Identification		Systemic	Local	Systemic	Local
Hexamethylene diisocyanate, oligomers	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 28182-81-2	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 931-274-8	Inhalation	Non-applicable	1 mg/m³	Non-applicable	0.5 mg/m <sup>3</sup>
Hexamethylene-di-isocyanate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 822-06-0	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 212-485-8	Inhalation	Non-applicable	0.07 mg/m <sup>3</sup>	Non-applicable	0.035 mg/m <sup>3</sup>

## DNEL (General population):

Non-applicable

#### PNEC:

120.				
Identification				
Hexamethylene diisocyanate, oligomers	STP	88 mg/L	Fresh water	0.127 mg/L
CAS: 28182-81-2	Soil	53183 mg/kg	Marine water	0.013 mg/L
EC: 931-274-8	Intermittent	1.27 mg/L	Sediment (Fresh water)	266701 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	26670 mg/kg
Hexamethylene-di-isocyanate	STP	8.42 mg/L	Fresh water	Non-applicable
CAS: 822-06-0	Soil	Non-applicable	Marine water	Non-applicable
EC: 212-485-8	Intermittent	Non-applicable	Sediment (Fresh water)	Non-applicable
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable

### 8.2 Exposure controls:

#### A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<UKCA marking>>. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

## B. Respiratory protection

Mandatory respiratory tract protection	Filter mask for gases and vapours	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)

## C. Specific protection for the hands

Pictogram	PPE	Remarks
Mandatory hand protection	Protective gloves against minor risks	Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2004+A1:2010 and EN ISO 374-1:2016+A1:2018

As the product is a mixture of several substances, the resistance of the glove material cannot be calculated in advance with total reliability and has therefore to be checked prior to the application.

## D. Eye and face protection

Pictogram	PPE	Remarks
	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions.  Use if there is a risk of splashing.
Mandatory face		
protection		

#### E. Body protection

Pictogram	PPE	Remarks
	Work clothing	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
	Anti-slip work shoes	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2012 y EN 13832-1:2007

#### F. Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
-	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	<b>©+</b>	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Emergency shower		Eyewash stations	

## Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### 9.1 Information on basic physical and chemical properties

For complete information see the product datasheet.

#### **Appearance**

Physical state at 20 °C:

Appearance:

Colour:

Colour:

Odour:

Odour threshold:

Liquid

Viscous

Colourless

Colourless

Characteristic

Non-applicable \*

## Volatility:

Boiling point at atmospheric pressure: 255 °C
Vapour pressure at 20 °C: 8.086E-1 Pa
Vapour pressure at 50 °C: 12.09 Pa (0.01 kPa)
Evaporation rate at 20 °C: Non-applicable \*

## **Product description:**

1129.9 kg/m<sup>3</sup> Density at 20 °C: Relative density at 20 °C: 1.13 Dynamic viscosity at 20 °C: 3000 cP Kinematic viscosity at 20 °C: 2655.1 mm<sup>2</sup>/s >20.5 mm<sup>2</sup>/s Kinematic viscosity at 40 °C: Concentration: Non-applicable \* Non-applicable \* Vapour density at 20 °C: Non-applicable \* Partition coefficient n-octanol/water 20 °C: Non-applicable \* Solubility in water at 20 °C: Non-applicable \* Solubility properties: **Immiscible** 

\*Not relevant due to the nature of the product, not providing information property of its hazards

## Flortex® Fastset Colour - Hardener Part B

# Material Safety Datasheet

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continue)

Decomposition temperature: Non-applicable \* Melting point/freezing point: Non-applicable \*

Flammability:

Flash Point: Non Flammable (>60  $^{\circ}$ C) Flammability (solid, gas): Non-applicable \*

Autoignition temperature: 454 °C

Lower flammability limit: Non-applicable \* Upper flammability limit: Non-applicable \*

Particle characteristics

Median equivalent diameter: Non-applicable

9.2 Other information

Information with regard to physical hazard classes:

Explosive properties:

Oxidising properties:

Corrosive to metals:

Heat of combustion:

Aerosols-total percentage (by mass) of flammable

Non-applicable \*

Non-applicable \*

Non-applicable \*

components:

Other safety characteristics:

Surface tension at 20 °C: Non-applicable \* Refraction index: Non-applicable \*

\*Not relevant due to the nature of the product, not providing information property of its hazards

## SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: No hazardous reactions are expected because the product is stable under recommended storage

conditions. See section 7.

**10.2 Chemical stability:** Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions: Under the specified conditions, hazardous reactions that lead to excessive temperatures or

pressure are not expected.

## 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

٠.	5				
	Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

#### 10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

#### 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

#### 11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available.

## Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

#### A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

#### B- Inhalation (acute effect):

- Acute toxicity: Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
- Corrosivity/Irritability: Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

## C- Contact with the skin and the eyes (acute effect):

 Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.  Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

## D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with carcinogenic effects. For more information see section 3.
- IARC: Titanium dioxide (aerodynamic diameter ≤ 10 μm) (2B); Zeolites (3); Cristobalite (RCS > 10 %) (1)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria
  are not met, as it does not contain substances classified as hazardous
  for this effect. For more information see section 3.

# Flortex® Fastset Colour - Hardener Part B

# Material Safety Datasheet

#### **SECTION 11: TOXICOLOGICAL INFORMATION (continue)**

#### E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with sensitising effects. For more information see section 3.
- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

#### F- Specific target organ toxicity (STOT) - single exposure:

 Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

#### G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect.
   For more information see section 3.

#### H- Aspiration hazard:

 Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

#### Other information:

Non-applicable

#### Specific toxicology information on the substances:

Identification	Acute t	oxicity	Genus
Hexamethylene diisocyanate, oligomers	LD50 oral	5100 mg/kg	Rat
CAS: 28182-81-2	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	11 mg/L (ATEi)	
Hexamethylene-di-isocyanate	LD50 oral	959 mg/kg	Rat
CAS: 822-06-0	LD50 dermal	7000 mg/kg	Rat
	LC50 inhalation	0.12 mg/L (4 h)	Rat

#### Acute Toxicity Estimate (ATE mix):

ATE mix		Ingredient(s) of unknown toxicity
Oral	>5000 mg/kg (Calculation method)	Non-applicable
Dermal	>5000 mg/kg (Calculation method)	Non-applicable
Inhalation	11.01 mg/L (4 h) (Calculation method)	0 %

#### **SECTION 12: ECOLOGICAL INFORMATION**

The experimental information related to the eco-toxicological properties of the product itself is not available

#### 12.1 Toxicity

### Acute toxicity:

Identification	Concentration		Species	Genus
Hexamethylene diisocyanate, oligomers	LC50	Non-applicable		
CAS: 28182-81-2	EC50	Non-applicable		
	EC50	1000 mg/L (72 h)	Scenedesmus subspicatus	Algae

## 12.2 Persistence and degradability:

Not available

#### 12.3 Bioaccumulative potential

Not available

## 12.4 Mobility in soil:

Not available

#### 12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

#### 12.6 Other adverse effects:

Not described

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

## 13.1 Waste treatment methods:

Code	Description	Waste class
20 01 27*	paint, inks, adhesives and resins containing hazardous substances	Dangerous

#### Type of waste

HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP6 Acute Toxicity, HP13 Sensitising

## Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

## Regulations related to waste management:

In accordance with Annex II of UK REACH the provisions related to waste management are stated:

UK legislation: The Waste Regulations 2011.

SECTION 14: TRANSPORT INFORMATION				
Transport of dangerous goods by land:				
With regard to ADR 2021 and RID 2021:				
14.1	UN number:	Non-applicable		
14.2	UN proper shipping name:	Non-applicable		
14.3	Transport Hazard Class(es):	Non-applicable		
	Label(s):	Non-applicable		
14.4	Packing group	Non-applicable		
14.5	Environmental hazards:	No		
14.6	Special precautions for user			
	Tunnel restriction code:	Non-applicable		
	Physico-Chemical properties:	see section 9		
	Limited quantities:	Non-applicable		
14.7	Transport in bulk according to Annex II of	Non-applicable		
	Marpol and the IBC Code:			
Transport of dangerous goods by sea:				
With regard to IMDG 40-20:				
14.1	UN number:	Non-applicable		
14.2	UN proper shipping name:	Non-applicable		
14.3	Transport Hazard Class(es):	Non-applicable		
	Label(s):	Non-applicable		
14.4	Packing group	Non-applicable		
14.5	Marine pollutant:	No		
14.6	Special precautions for user			
	Special regulations:	Non-applicable		
	EmS Codes:	-		
	Physico-Chemical properties:	see section 9		
	Limited quantities:	Non-applicable		
	Segregation group:	Non-applicable		
14.7	Transport in bulk according to Annex II of	Non-applicable		
	Marpol and the IBC Code:			
Transport of dangerous goods by air:				
With regard to IATA/ICAO 2022:				
14.1	UN number:	Non-applicable		
14.2	UN proper shipping name:	Non-applicable		
14.3	Transport Hazard Class(es):	Non-applicable		
	Label(s):	Non-applicable		
14.4	Packing group	Non-applicable		
14.5	Environmental hazards:	No		
14.6	Special precautions for user			
147	Physico-Chemical properties:	see section 9		
14.7	Transport in bulk according to Annex II of	Non-applicable		
	Marpol and the IBC Code:			

#### SECTION 15: REGULATORY INFORMATION

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

- Substances listed in UK candidate list of substances of very high concern (SVHCs): Non-applicable
- Substances listed in UK REACH Authorisation List (Annex 14): Non-applicable

## The Control of Major Accident Hazards Regulations 2015:

Non-applicable

#### Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK REACH, etc ....):

Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Contains more than 0.1 % of Hexamethylene diisocyanate, oligomers by weight. 1. Shall not be used as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after 24 August 2023, unless:

- (a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or (b) the employer or self-employed ensures that industrial or professional user(s) have successfully completed training on the safe use of diisocyanates prior to the use of the substance(s) or mixture(s)
- 2. Shall not be placed on the market as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after 24 February 2022, unless:
- (a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or (b) the supplier ensures that the recipient of the ubstance(s) or mixture(s) is provided with information on the requirements referred to in point (b) of paragraph 1 and the following statement is placed on the packaging, in a manner that is visibly distinct from the rest of the label information: "As from 24 August 2023 adequate training is required before industrial or professional use".

#### SECTION 15: REGULATORY INFORMATION (continue)

- 3. For the purpose of this entry "industrial and professional user(s)" means any worker or self-employed worker handling diisocyanates on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) or supervising these tasks
- 4. The training referred to in point (b) of paragraph 1 shall include the instructions for the control of dermal and inhalation exposure to diisocyanates at the workplace without prejudice to any national occupational exposure limit value or other appropriate risk management measures at national level. Such training shall be conducted by an expert on occupational safety and health with competence acquired by relevant vocational training. That training shall cover as a minimum:
- (a) the training elements in point (a) of paragraph 5 for all industrial and professional use(s).
- (b) the training elements in points (a) and (b) of paragraph 5 for the following uses:
- handling open mixtures at ambient temperature (including foam tunnels)
- spraying in a ventilated booth
- application by roller
- application by brush
- application by dipping and pouring
- mechanical post treatment (e.g. cutting) of not fully cured articles which are not warm anymore
- cleaning and waste
- any other uses with similar exposure through the dermal and/or inhalation route

(c) the training elements in points (a), (b) and (c) of paragraph 5 for the following uses:

- handling incompletely cured articles (e.g. freshly cured, still warm)
- foundry applications
- maintenance and repair that needs access to equipment
- open handling of warm or hot formulations (> 45 °C)
- spraying in open air, with limited or only natural ventilation (includes large industry working halls) and spraying with high energy (e.g. foams, elastomers)
- and any other uses with similar exposure through the dermal and/or inhalation route.
- 5. Training elements:
- (a) general training, including on-line training, on:
- chemistry of diisocyanates
- toxicity hazards (including acute toxicity)
- exposure to diisocyanates
- occupational exposure limit values
- how sensitisation can develop
- odour as indication of hazard
- importance of volatility for risk
- $\boldsymbol{-}$  viscosity, temperature, and molecular weight of diisocyanates
- personal hygiene
   personal protective of
- personal protective equipment needed, including practical instructions for its correct use and its limitations
- risk of dermal contact and inhalation exposure
- risk in relation to application process used
- skin and inhalation protection scheme
- ventilation
- cleaning, leakages, maintenance
- discarding empty packaging
- protection of bystanders
- identification of critical handling stages
- specific national code systems (if applicable)
- behaviour-based safety
- certification or documented proof that training has been successfully completed
- (b) intermediate level training, including on-line training, on:
- additional behaviour-based aspects
- maintenance
- management of change
- evaluation of existing safety instructions
- risk in relation to application process used
- certification or documented proof that training has been successfully completed
- (c) advanced training, including on-line training, on:
- any additional certification needed for the specific uses covered
- spraying outside a spraying booth
- open handling of hot or warm formulations (> 45 °C)
- certification or documented proof that training has been successfully completed
- 6. The training shall comply with the provisions set by the Member State in which the industrial or professional user(s) operate. Member States may implement or continue to apply their own national requirements for the use of the substance(s) or mixture(s), as long as the minimum requirements set out in paragraphs 4 and 5 are met.
- 7. The supplier referred to in point (b) of paragraph 2 shall ensure that the recipient is provided with training material and courses pursuant to paragraphs 4 and 5 in the official language(s) of the Member State(s) where the substance(s) or mixture(s) are supplied. The training shall take into consideration the specificity of the products supplied, including composition, packaging, and design.
- 8. The employer or self-employed shall document the successful completion of the training referred to in paragraphs 4 and 5. The training shall be renewed at least every five years.

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#### **SECTION 15: REGULATORY INFORMATION (continue)**

- 9. Member States shall include in their reports pursuant to Article 117(1) the following information:
- (a) any established training requirements and other risk management measures related to the industrial and professional uses of diisocyanates foreseen in national law
- (b) the number of cases of reported and recognised occupational asthma and occupational respiratory and dermal diseases in relation to diisocyanates
- (c) national exposure limits for diisocyanates, if there are any
- (d) information about enforcement activities related to this restriction.
- 10. This restriction shall apply without prejudice to other Union legislation on the protection of safety and health of workers at the workplace.

#### Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

#### Other legislation:

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.

Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits.

#### **SECTION 16: OTHER INFORMATION**

#### Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

#### Texts of the legislative phrases mentioned in section 2:

H317: May cause an allergic skin reaction.

H335: May cause respiratory irritation.

H332: Harmful if inhaled.

#### Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

#### **GB CLP Regulation:**

Acute Tox. 1: H330 - Fatal if inhaled.

Acute Tox. 4: H302 - Harmful if swallowed.

Acute Tox. 4: H332 - Harmful if inhaled.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

STOT SE 3: H335 - May cause respiratory irritation.

#### Classification procedure:

Skin Sens. 1: Calculation method

STOT SE 3: Calculation method

Acute Tox. 4: Calculation method

#### Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

As from 24th August 2023, adequate training is required before industrial or professional use of this product.

#### Principal bibliographical sources:

http://echa.europa.eu

http://eur-lex.europa.eu

#### Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient

Koc: Partition coefficient of organic carbon

UFI: unique formula identifier IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at UK, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

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