

# Page 1 of 11 MATERIAL SAFETY DATA SHEET FIBERTECH FIXOL



According to Regulation (EC) No 1907/2006, Annex II, as amended.

Supersedes date: 15/05/2018

Revision date: 17/10/2019

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product name CELMEND AQUA

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Two component epoxy based adhesive.

### 1.3. Details of the supplier of the safety data sheet

**Supplier** 2K polymer systems ltd

Venture Crescent

Alfreton Derbyshire DE55 7RA, UK

Tel: +44 (0)1773 540440 Fax: +44 (0)1773 607638

Web www.2kps.net

Contact person SDS@2kps.net

### 1.4. Emergency telephone number

**Emergency telephone** +44 (0)1773 540440 (Mon - Fri 08:00 - 17:00)

### SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

**Health hazards** Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

**Environmental hazards** Aquatic Chronic 3 - H412

**Human health** May cause skin sensitisation or allergic reactions in sensitive individuals.

### 2.2. Label elements

### Hazard pictograms



Signal word Warning

Hazard statements H315 Causes skin irritation.

H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.



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Precautionary statements P264 Wash contaminated skin thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

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

P337+P313 If eye irritation persists: Get medical advice/ attention.

P501 Dispose of contents/ container in accordance with national regulations.

Contains POLY[OXY(METHYL-1,2-ETHANEDIYL)], A-HYDRO-ω-HYDROXY-, ETHER WITH 2,2-

BIS(HYDROXYMETHYL)-1,3-PROPANEDIOL (4:1), 2-HYDROXY-3-MERCAPTOPROPYL

ETHER, reaction product: bisphenol-A-(epichlorhydrin), TRIETHYLENETETRAMINE

Supplementary precautionary

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

### 2.3. Other hazards

### SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**TALC** 20-50%

CAS number: 14807-96-6 EC number: 238-877-9

Classification Not Classified

POLY[OXY(METHYL-1,2-ETHANEDIYL)], A-HYDRO-ω-HYDROXY-, ETHER WITH 2,2-BIS(HYDROXYMETHYL)-

1,3-PROPANEDIOL (4:1), 2-HYDROXY-3-

MERCAPTOPROPYL ETHER

CAS number: 72244-98-5 EC number: 615-735-8 REACH registration number: 01-

2120118957-46

Classification

Skin Sens. 1B - H317 Aquatic Chronic 3 - H412

**AMORPHOUS SODA LIME GLASS** 

20-50%

20-50%

CAS number: 65997-17-3 EC number: 266-046-0

Classification

Not Classified

reaction product: bisphenol-A-(epichlorhydrin)

5-10%

CAS number: 25068-38-6 EC number: 500-033-5

Classification

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

Skin Sens. 1 - H317

Aquatic Chronic 2 - H411



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TITANIUM DIOXIDE 5-10%

Classification
Not Classified

TRIETHYLENETETRAMINE >0.5 <1.0%

CAS number: 112-24-3 EC number: 203-950-6

Classification

Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412

PHENOL <0.5%

CAS number: 108-95-2 EC number: 203-632-7

M factor (Chronic) = 1

### Classification

Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Muta. 2 - H341 STOT RE 2 - H373 Aquatic Chronic 1 - H410

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation** Remove affected person from source of contamination. Get medical attention if any discomfort

continues.

**Ingestion** DO NOT induce vomiting. Get medical attention immediately.

**Skin contact** Wash skin thoroughly with soap and water.

**Eye contact** Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide

apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after

washing. Show this Safety Data Sheet to the medical personnel.

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

**Inhalation** No specific symptoms known.

**Ingestion** May cause discomfort.

**Skin contact** May cause sensitisation or allergic reactions in sensitive individuals. Causes skin irritation.

**Eye contact** Causes eye irritation.



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

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

### SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media Extinguish with the following media: Water spray, foam, dry powder or carbon dioxide.

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

**Specific hazards** No unusual fire or explosion hazards noted.

Hazardous combustion

products

Oxides of carbon. Oxides of nitrogen.

### 5.3. Advice for firefighters

Protective actions during

firefighting

No specific firefighting precautions known.

Special protective equipment

for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing.

### SECTION 6: Accidental release measures

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

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2. Environmental precautions

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** For waste disposal, see Section 13.

### 6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. Collect and dispose of spillage as indicated in Section

13.

### SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid contact with skin. Avoid contact with eyes.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** No special storage precautions required.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

### SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

### Occupational exposure limits

**TALC** 

Long-term exposure limit (8-hour TWA): WEL 1 mg/m³ respirable dust

### AMORPHOUS SODA LIME GLASS

Long-term exposure limit (8-hour TWA): 5 mg/m³ dust

### **TITANIUM DIOXIDE**



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Long-term exposure limit (8-hour TWA): WEL 4 mg/m³ respirable dust Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust

### **PHENOL**

Long-term exposure limit (8-hour TWA): WEL 2 ppm 7.8 mg/m³ Short-term exposure limit (15-minute): WEL 4 ppm 16 mg/m³

Sk

WEL = Workplace Exposure Limit Sk = Can be absorbed through the skin.

### reaction product: bisphenol-A-(epichlorhydrin) (CAS: 25068-38-6)

**DNEL** Industry - Inhalation; Long term systemic effects: 12.25 mg/m³

Industry - Inhalation; Short term systemic effects: 12.25 mg/m³ Industry - Dermal; Long term systemic effects: 8.33 mg/kg/day Industry - Dermal; Short term systemic effects: 8.33 mg/kg/day

**REACH** dossier information

PNEC - Fresh water; 0.006 mg/l

marine water; 0.0006 mg/lIntermittent release; 0.018 mg/l

- STP; 10 mg/l

Sediment (Freshwater); 0.996 mg/kgSediment (Marinewater); 0.0996 mg/kg

- Soil; 0.196 mg/kg

**REACH** dossier information

### **TITANIUM DIOXIDE (CAS: 13463-67-7)**

**DNEL** Industry - Inhalation; Long term systemic effects: 10 mg/m³

**REACH** dossier information

PNEC - Fresh water; 0.127 mg/l

- marine water; 1.0 mg/l

- Intermittent release; 0.61 mg/l

- STP; 100 mg/l

Sediment (Freshwater); 1000 mg/kgSediment (Marinewater); 100 mg/kg

- Soil; 100 mg/kg

**REACH** dossier information

### TRIETHYLENETETRAMINE (CAS: 112-24-3)

**DNEL** Industry - Dermal; Short term systemic effects: 5380 mg/kg/day

Industry - Inhalation; Long term systemic effects: 1.0 mg/m<sup>3</sup>

PNEC - Fresh water; 0.135 mg/l

- marine water; 0.0027 mg/l

### PHENOL (CAS: 108-95-2)

**DNEL** Industry - Inhalation; Long term systemic effects: 8 mg/m³

Industry - Inhalation; Short term local effects: 16 mg/m<sup>3</sup> Industry - Dermal; Long term systemic effects: 1.23 mg/m<sup>3</sup>

**REACH** dossier information



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**PNEC** - Fresh water; 0.0077 mg/l

> - marine water; 0.00077 mg/l - Intermittent release; 0.031 mg/l

- STP; 2.1 mg/l

- Sediment (Freshwater); 0.0915 mg/kg 8.2. Exposure controls - Sediment (Marinewater); 0.00915 mg/kg

Protective equipment - Soil; 0.136 mg/kg





**REACH** dossier information

Appropriate engineering

controls

No specific ventilation requirements.

Eye/face protection Wear eye protection.

Hand protection Wear protective gloves.

Hygiene measures Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before

eating, smoking and using the toilet.

Respiratory protection No specific recommendations.

**Environmental exposure** 

controls

Residues and empty containers should be taken care of as hazardous waste according to

local and national provisions.

### SECTION 9: Physical and chemical properties

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

**Appearance** Solid. Coloured paste.

Colour Green. White.

Odour Characteristic. Sulphur.

Odour threshold Not determined.

pН Not applicable.

Melting point Not applicable.

Initial boiling point and range >35°C @ 760 mm Hg

Flash point >100°C

**Evaporation rate** Not applicable. **Evaporation factor** Not applicable. Flammability (solid, gas) Not determined.

Upper/lower flammability or

explosive limits

Not determined.

<500 Pa @ 20°C Vapour pressure Vapour density Not applicable.

Relative density ~ 2



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Bulk density Not applicable.

Solubility(ies) Insoluble in water

Partition coefficient Not determined.

Auto-ignition temperature Not determined.

**Decomposition Temperature** Not determined.

Viscosity Not applicable.

**Explosive properties** Not applicable.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

**Conditions to avoid** Avoid contact with the following materials: Acids.

10.5. Incompatible materials

Materials to avoid Acids. Amines.

10.6. Hazardous decomposition products

Hazardous decomposition Oxide

products

Oxides of carbon. Oxides of nitrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

**ATE oral (mg/kg)** 25,641.03

Acute toxicity - dermal

**ATE dermal (mg/kg)** 161,538.46

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 769.23

Skin sensitisation

**Skin sensitisation** Sensitising.

**Ingestion** May cause discomfort.

**Skin contact** May cause sensitisation by skin contact. Causes skin irritation.

**Eye contact** Causes eye irritation.

Route of exposure Skin and/or eye contact.

Toxicological information on ingredients



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TALC

Carcinogenicity

IARC carcinogenicity IARC Group 2B Possibly carcinogenic to humans.

**TITANIUM DIOXIDE** 

Acute toxicity - oral

Acute toxicity oral (LD50

mg/kg)

5,000.0

Species Rat

Carcinogenicity

IARC carcinogenicity IARC Group 2B Possibly carcinogenic to humans.

TRIETHYLENETETRAMINE

Acute toxicity - oral

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

ATE dermal (mg/kg) 1,100.0

**PHENOL** 

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

317.0

**Species** Rat

**ATE oral (mg/kg)** 100.0

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 630.0

mg/kg)

**Species** Rabbit

ATE dermal (mg/kg) 630.0

Acute toxicity - inhalation

ATE inhalation (vapours 3.0

mg/l)

Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

SE

CTION 12: Ecological information

12.

Ec 1. Toxicity

ological information on ingredients.

reaction product: bisphenol-A-(epichlorhydrin)

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: 2 mg/l, Oncorhynchus mykiss (Rainbow trout)



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Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 1.8 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 72 hours: 11 mg/l, Freshwater algae

Chronic aquatic toxicity

Chronic toxicity - aquatic

invertebrates

NOEC, 21 days: 0.3 mg/l, Daphnia magna

TITANIUM DIOXIDE

EC₅o, 96 hours: 220 mg/l, Scenedesmus subspicatus

Acute aquatic toxicity

Acute toxicity - fish LC0, >: 1000 mg/l, Leuciscus idus (Golden orfe)

**REACH** dossier information

Acute toxicity - aquatic

invertebrates

NOEC, > 48 hours: 3 mg/l, Daphnia magna

**REACH** dossier information

**Acute toxicity -** EC<sub>50</sub>, > 3 hours: 1000 mg/l, Activated sludge

microorganisms REACH dossier information

**TRIETHYLENETETRAMINE** 

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: 330 mg/l, Pimephales promelas (Fat-head Minnow)

LC50, 96 hours: 570 mg/l, Poecilia reticulata (Guppy)

Acute toxicity - aquatic

invertebrates

EC₅o, 48 hours: 31 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅o, 72 hours: 20 mg/l, Selenastrum capricornutum

Acute toxicity - microorganisms

,: 800 mg/l, Activated sludge

PHENOL

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: 67.5 mg/l, Pimephales promelas (Fat-head Minnow)

Chronic aquatic toxicity

1 M factor (Chronic) 1

2.2. Persistence and degradability

Persistence and degradability The product is not biodegradable.

Ecological information on ingredients.

reaction product: bisphenol-A-(epichlorhydrin)

1 Biodegradation - 12% Degradation (%): 28 days

2.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

Partition coefficient Not determined.



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Ecological information on ingredients.

reaction product: bisphenol-A-(epichlorhydrin)

Bioaccumulative potential May accumulate in soil and water systems. BCF: 100 - 3000,

Partition coefficient log Pow: 3.242 Estimated Value

12.4. Mobility in soil

Mobility The product is insoluble in water and will spread on the water surface. The product is non-

volatile. Semi-mobile.

Ecological information on ingredients.

reaction product: bisphenol-A-(epichlorhydrin)

Mobility Semi-mobile.

Adsorption/desorption

coefficient

Water - Koc: 1800 - 4400 @ 25°C Estimated Value

Henry's law constant 4.93E-05 Pa m3/mol @ 25°C

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

reaction product: bisphenol-A-(epichlorhydrin)

Results of PBT and vPvB

assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

**SECTION 13: Disposal considerations** 

13.1. Waste treatment methods

**Disposal methods** Dispose of waste via a licensed waste disposal contractor.

Waste class

The waste code classification is to be carried out according to the European Waste Catalogue

(EWC).

**SECTION 14: Transport information** 

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.



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### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

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

**Transport in bulk according to** Not applicable. **Annex II of MARPOL 73/78** 

and the IBC Code

SECTION 15: Regulatory information

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

EU legislation (EU) No 2015/830

**Guidance** Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

**Revision comments** NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 17/10/2019

Version number 2.002

Supersedes date 15/05/2018

SDS number 20656

Hazard statements in full H301 Toxic if swallowed.

H302 Harmful if swallowed. H311 Toxic in contact with skin. H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H341 Suspected of causing genetic defects.

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.