# SAFETY DATA SHEET
# AQUA EPOXY STICK

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

### 1.1. Product identifier

**Product name** AQUA EPOXY STICK

### 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**

Cyanotec Ltd
Bay 2 Building 62 Third Avenue
Pensnett Trading Estate
Kingswinford
DY6 7XT, UK
Tel: +44 (0)1773 540440
Fax: +44 (0)1773 607638

**Web** www.cyanotec.com

**Contact person** Tim Lucas - tim@cyanotec.com

### 1.4. Emergency telephone number

**Emergency telephone** +44 (0)1773 540440 (Mon - Thur 08:40 - 16:55) (Fri 8:40 – 14:30)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification (EC 1272/2008)**

**Physical hazards** Not Classified

**Health hazards** 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

**Pictogram**

**Signal word** Warning

**Hazard statements** 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.<br>P273 Avoid release to the environment.<br>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.<br>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.<br>P337+P313 If eye irritation persists: Get medical advice/ attention.<br>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, EPOXY RESIN (Number average MW <= 700), TRIETHYLENETETRAMINE |
| **Supplementary precautionary statements** | P302+P352 IF ON SKIN: Wash with plenty of water.<br>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 REACH registration number: 01-2120140278-58

**Classification**
Not Classified

**Classification (67/548/EEC or 1999/45/EC)**
-

**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** **20-50%**

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%**

CAS number: 65997-17-3 EC number: 266-046-0 REACH registration number: 01-2119990048-30

**Classification**
Not Classified

**Classification (67/548/EEC or 1999/45/EC)**
-

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**EPOXY RESIN (Number average MW <= 700 )** **5-10%**

CAS number: 25068-38-6 EC number: 500-033-5 REACH registration number: 01-2119456619-26

**Classification**
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Skin Sens. 1 - H317
Aquatic Chronic 2 - H411

**TITANIUM DIOXIDE** **5-10%**

CAS number: 13463-67-7 EC number: 236-675-5 REACH registration number: 01-2119489379-17

**Classification** **Classification (67/548/EEC or 1999/45/EC)**
Not Classified -

**TRIETHYLENETETRAMINE** **>0.5 <1.0%**

CAS number: 112-24-3 EC number: 203-950-6 REACH registration number: 01-2119487919-13

**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 REACH registration number: 01-2119471329-32

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.

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| | |
|---|---|
| **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. May cause irritation. |
| **Eye contact** | May irritate eyes. |

### 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

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**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**

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.

**EPOXY RESIN (Number average MW <= 700 ) (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/l
- Intermittent release; 0.018 mg/l
- STP; 10 mg/l
- Sediment (Freshwater); 0.996 mg/kg
- Sediment (Marine water); 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/kg
- Sediment (Marine water); 100 mg/kg
- Soil; 100 mg/kg

REACH dossier information

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

| | |
|---|---|
| **DNEL** | Industry - Dermal; Short term systemic effects: 5380 mg/kg/day<br>Industry - Inhalation; Long term systemic effects: 1.0 mg/m³ |
| **PNEC** | - Fresh water; 0.135 mg/l<br>- Marine water; 0.0027 mg/l |

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

| | |
|---|---|
| **DNEL** | Industry - Inhalation; Long term systemic effects: 8 mg/m³<br>Industry - Inhalation; Short term local effects: 16 mg/m³<br>Industry - Dermal; Long term systemic effects: 1.23 mg/m³<br>REACH dossier information |
| **PNEC** | - Fresh water; 0.0077 mg/l<br>- Marine water; 0.00077 mg/l<br>- Intermittent release; 0.031 mg/l<br>- STP; 2.1 mg/l<br>- Sediment (Freshwater); 0.0915 mg/kg<br>- Sediment (Marinewater); 0.00915 mg/kg<br>- Soil; 0.136 mg/kg<br>REACH dossier information |

## 8.2. Exposure controls

**Protective equipment**

| | |
|---|---|
| **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. |
| **pH** | Not applicable. |
| **Melting point** | Not applicable. |
| **Initial boiling point and range** | >35°C @ 760 mm Hg |

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| | |
|---|---|
| **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. |
| **Vapour pressure** | <500 Pa @ 20°C |
| **Vapour density** | Not applicable. |
| **Relative density** | ~ 2 |
| **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 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

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**Skin sensitisation**

| | |
|---|---|
| **Skin sensitisation** | Sensitising. |
| **Ingestion** | May cause discomfort. |
| **Skin contact** | May cause sensitisation by skin contact. May cause skin irritation. |
| **Eye contact** | May irritate eyes. |
| **Route of exposure** | Skin and/or eye contact. |

**Toxicological information on ingredients.**

| | EPOXY RESIN (Number average MW <= 700 ) |
|---|---|
| **Acute toxicity - oral** | |
| **Acute toxicity oral ($LD_{50}$ mg/kg)** | 11,400.0 |
| **Species** | Rat |
| **Acute toxicity - dermal** | |
| **Acute toxicity dermal ($LD_{50}$ mg/kg)** | 1,200.0 |
| **Species** | Rat |

| | PHENOL |
|---|---|
| **Acute toxicity - oral** | |
| **Acute toxicity oral ($LD_{50}$ mg/kg)** | 317.0 |
| **Species** | Rat |
| **ATE oral (mg/kg)** | 100.0 |
| **Acute toxicity - dermal** | |
| **Acute toxicity dermal ($LD_{50}$ mg/kg)** | 630.0 |
| **Species** | Rabbit |
| **ATE dermal (mg/kg)** | 630.0 |
| **Acute toxicity - inhalation** | |
| **ATE inhalation (vapours mg/l)** | 3.0 |
| **Carcinogenicity** | |
| **IARC carcinogenicity** | IARC Group 3 Not classifiable as to its carcinogenicity to humans. |

## SECTION 12: Ecological Information

**12.1. Toxicity**

**Ecological information on ingredients.**

| | EPOXY RESIN (Number average MW <= 700 ) |
|---|---|
| **Acute aquatic toxicity** | |

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| | |
|---|---|
| **Acute toxicity - fish** | LC50, 96 hours: 2 mg/l, Oncorhynchus mykiss (Rainbow trout) |
| **Acute toxicity - aquatic invertebrates** | $EC_{50}$, 48 hours: 1.8 mg/l, Daphnia magna |
| **Acute toxicity - aquatic plants** | $EC_{50}$, 72 hours: 11 mg/l, Freshwater algae<br>$EC_{50}$, 96 hours: 220 mg/l, Scenedesmus subspicatus |
| **Chronic aquatic toxicity** | |
| **Chronic toxicity - aquatic invertebrates** | NOEC, 21 days: 0.3 mg/l, Daphnia magna |

**PHENOL**

| | |
|---|---|
| **Acute aquatic toxicity** | |
| **Acute toxicity - fish** | LC50, 96 hours: 67.5 mg/l, Pimephales promelas (Fat-head Minnow) |
| **Chronic aquatic toxicity** | |
| **M factor (Chronic)** | 1 |

## 12.2. Persistence and degradability

**Persistence and degradability** The product is not biodegradable.

**Ecological information on ingredients.**

**EPOXY RESIN (Number average MW <= 700 )**

| | |
|---|---|
| **Biodegradation** | - 12% Degradation (%): 28 days |

## 12.3. Bioaccumulative potential

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

**Partition coefficient** Not determined.

**Ecological information on ingredients.**

**EPOXY RESIN (Number average MW <= 700 )**

| | |
|---|---|
| **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.**

**EPOXY RESIN (Number average MW <= 700 )**

| | |
|---|---|
| **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.

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**Ecological information on ingredients.**

**EPOXY RESIN (Number average MW <= 700 )**

**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.

**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 Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

## 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

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| | |
|---|---|
| **Revision comments** | NOTE: Lines within the margin indicate significant changes from the previous revision. |
| **Revision date** | 15/05/2018 |
| **Version number** | 2.001 |
| **Supersedes date** | 12/02/2018 |
| **SDS number** | 20656 |
| **Hazard statements in full** | H301 Toxic if swallowed.<br>H302 Harmful if swallowed.<br>H311 Toxic in contact with skin.<br>H312 Harmful in contact with skin.<br>H314 Causes severe skin burns and eye damage.<br>H315 Causes skin irritation.<br>H317 May cause an allergic skin reaction.<br>H318 Causes serious eye damage.<br>H319 Causes serious eye irritation.<br>H331 Toxic if inhaled.<br>H341 Suspected of causing genetic defects.<br>H373 May cause damage to organs through prolonged or repeated exposure.<br>H410 Very toxic to aquatic life with long lasting effects.<br>H411 Toxic to aquatic life with long lasting effects.<br>H412 Harmful to aquatic life with long lasting effects. |