

**D305 AQUA STICK**

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

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product name D305 AQUA 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 Delta Adhesives Ltd  
Units 39-40  
Claycliffe Business Park  
Barugh Green, Barnsley  
S75 1JU  
Tel: +44 (0)1226 381571  
Fax: +44 (0)1226 381722Web [www.Delta-adhesives.co.uk](http://www.Delta-adhesives.co.uk)Contact person [info@delta-adhesives.co.uk](mailto:info@delta-adhesives.co.uk)**1.4. Emergency telephone number**

Emergency telephone +44 (0)1226 381571 (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.

<b>Precautionary statements</b>	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.
<b>Contains</b>	POLY[OXY(METHYL-1,2-ETHANEDIYL)], A-HYDRO- $\omega$ -HYDROXY-, ETHER WITH 2,2-BIS(HYDROXYMETHYL)-1,3-PROPANEDIOL (4:1), 2-HYDROXY-3-MERCAPTOPROPYL ETHER, reaction product: bisphenol-A-(epichlorhydrin), TRIETHYLENETETRAMINE
<b>Supplementary precautionary statements</b>	P302+P352 IF ON SKIN: Wash with plenty of 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.

### 2.3. Other hazards

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>TALC</b>	<b>20-50%</b>	
CAS number: 14807-96-6	EC number: 238-877-9	
<b>Classification</b>	Not Classified	
<b>POLY[OXY(METHYL-1,2-ETHANEDIYL)], A-HYDRO-<math>\omega</math>-HYDROXY-, ETHER WITH 2,2-BIS(HYDROXYMETHYL)-1,3-PROPANEDIOL (4:1), 2-HYDROXY-3-MERCAPTOPROPYL ETHER</b>	<b>20-50%</b>	
CAS number: 72244-98-5	EC number: 615-735-8	REACH registration number: 01-2120118957-46
<b>Classification</b>	Skin Sens. 1B - H317 Aquatic Chronic 3 - H412	
<b>AMORPHOUS SODA LIME GLASS</b>	<b>20-50%</b>	
CAS number: 65997-17-3	EC number: 266-046-0	
<b>Classification</b>	Not Classified	
<b>reaction product: bisphenol-A-(epichlorhydrin)</b>	<b>5-10%</b>	
CAS number: 25068-38-6	EC number: 500-033-5	
<b>Classification</b>	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	

<b>TITANIUM DIOXIDE</b>	<b>5-10%</b>
CAS number: 13463-67-7	EC number: 236-675-5
<b>Classification</b> Not Classified	
<b>TRIETHYLENETETRAMINE</b>	<b>&gt;0.5 &lt;1.0%</b>
CAS number: 112-24-3	EC number: 203-950-6
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412	
<b>PHENOL</b>	<b>&lt;0.5%</b>
CAS number: 108-95-2	EC number: 203-632-7
M factor (Chronic) = 1	
<b>Classification</b> 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**

<b>Inhalation</b>	Remove affected person from source of contamination. Get medical attention if any discomfort continues.
<b>Ingestion</b>	DO NOT induce vomiting. Get medical attention immediately.
<b>Skin contact</b>	Wash skin thoroughly with soap and water.
<b>Eye contact</b>	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**

<b>Inhalation</b>	No specific symptoms known.
<b>Ingestion</b>	May cause discomfort.
<b>Skin contact</b>	May cause sensitisation or allergic reactions in sensitive individuals. Causes skin irritation.
<b>Eye contact</b>	Causes eye irritation.

**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/m<sup>3</sup> respirable dust

**AMORPHOUS SODA LIME GLASS**

Long-term exposure limit (8-hour TWA): 5 mg/m<sup>3</sup> dust

**TITANIUM DIOXIDE**

Long-term exposure limit (8-hour TWA): WEL 4 mg/m<sup>3</sup> respirable dust

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> inhalable dust

#### PHENOL

Long-term exposure limit (8-hour TWA): WEL 2 ppm 7.8 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 4 ppm 16 mg/m<sup>3</sup>

Sk

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

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

<b>DNEL</b>	Industry - Inhalation; Long term systemic effects: 12.25 mg/m <sup>3</sup> Industry - Inhalation; Short term systemic effects: 12.25 mg/m <sup>3</sup> 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
<b>PNEC</b>	- 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 (Marinewater); 0.0996 mg/kg - Soil; 0.196 mg/kg REACH dossier information

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

<b>DNEL</b>	Industry - Inhalation; Long term systemic effects: 10 mg/m <sup>3</sup> REACH dossier information
<b>PNEC</b>	- 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 (Marinewater); 100 mg/kg - Soil; 100 mg/kg REACH dossier information

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

<b>DNEL</b>	Industry - Dermal; Short term systemic effects: 5380 mg/kg/day Industry - Inhalation; Long term systemic effects: 1.0 mg/m <sup>3</sup>
<b>PNEC</b>	- Fresh water; 0.135 mg/l - marine water; 0.0027 mg/l

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

<b>DNEL</b>	Industry - Inhalation; Long term systemic effects: 8 mg/m <sup>3</sup> 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
  - Sediment (Marinewater); 0.00915 mg/kg
  - Soil; 0.136 mg/kg
- 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**

<b>Appearance</b>	Solid. Coloured paste.
<b>Colour</b>	Green. White.
<b>Odour</b>	Characteristic. Sulphur.
<b>Odour threshold</b>	Not determined.
<b>pH</b>	Not applicable.
<b>Melting point</b>	Not applicable.
<b>Initial boiling point and range</b>	>35°C @ 760 mm Hg
<b>Flash point</b>	>100°C
<b>Evaporation rate</b>	Not applicable.
<b>Evaporation factor</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Not determined.
<b>Upper/lower flammability or explosive limits</b>	Not determined.
<b>Vapour pressure</b>	<500 Pa @ 20°C
<b>Vapour density</b>	Not applicable.
<b>Relative density</b>	~ 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

##### 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.

TALCCarcinogenicity

IARC carcinogenicity IARC Group 2B Possibly carcinogenic to humans.

TITANIUM DIOXIDEAcute toxicity - oralAcute toxicity oral (LD<sub>50</sub>  
mg/kg) 5,000.0

Species Rat

Carcinogenicity

IARC carcinogenicity IARC Group 2B Possibly carcinogenic to humans.

TRIETHYLENETETRAMINEAcute toxicity - oral

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

ATE dermal (mg/kg) 1,100.0

PHENOLAcute toxicity - oralAcute toxicity oral (LD<sub>50</sub>  
mg/kg) 317.0

Species Rat

ATE oral (mg/kg) 100.0

Acute toxicity - dermalAcute toxicity dermal (LD<sub>50</sub>  
mg/kg) 630.0

Species Rabbit

ATE dermal (mg/kg) 630.0

Acute toxicity - inhalationATE inhalation (vapours  
mg/l) 3.0Carcinogenicity

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

**SECTION 12: Ecological information**12.1. ToxicityEcological information on ingredients.reaction product: bisphenol-A-(epichlorhydrin)Acute aquatic toxicity

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



<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 1.8 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 72 hours: 11 mg/l, Freshwater algae EC <sub>50</sub> , 96 hours: 220 mg/l, Scenedesmus subspicatus
<b><u>Chronic aquatic toxicity</u></b>	
<b>Chronic toxicity - aquatic invertebrates</b>	NOEC, 21 days: 0.3 mg/l, Daphnia magna

#### TITANIUM DIOXIDE

<b><u>Acute aquatic toxicity</u></b>	
<b>Acute toxicity - fish</b>	LC0, >: 1000 mg/l, Leuciscus idus (Golden orfe) REACH dossier information
<b>Acute toxicity - aquatic invertebrates</b>	NOEC, > 48 hours: 3 mg/l, Daphnia magna REACH dossier information
<b>Acute toxicity - microorganisms</b>	EC <sub>50</sub> , > 3 hours: 1000 mg/l, Activated sludge REACH dossier information

#### TRIETHYLENETETRAMINE

<b><u>Acute aquatic toxicity</u></b>	
<b>Acute toxicity - fish</b>	LC50, 96 hours: 330 mg/l, Pimephales promelas (Fat-head Minnow) LC50, 96 hours: 570 mg/l, Poecilia reticulata (Guppy)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 31 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 72 hours: 20 mg/l, Selenastrum capricornutum
<b>Acute toxicity - microorganisms</b>	, : 800 mg/l, Activated sludge

#### PHENOL

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

### 12.2. Persistence and degradability

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

### Ecological information on ingredients.

#### reaction product: bisphenol-A-(epichlorhydrin)

<b>Biodegradation</b>	- 12% Degradation (%): 28 days
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### 12.3. Bioaccumulative potential

<b>Bioaccumulative potential</b>	No data available on bioaccumulation.
<b>Partition coefficient</b>	Not determined.

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 m<sup>3</sup>/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.

**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**

<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	17/10/2019
<b>Version number</b>	2.002
<b>Supersedes date</b>	15/05/2018
<b>SDS number</b>	20656
<b>Hazard statements in full</b>	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.

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