



SAFETY DATA SHEET D305 AQUA STICK

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

1.1. Product identifier

Product name D305 AQUA STICK EPOXY PUTTY

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, UK
Tel: +44 (0)1226 381571
Fax: +44 (0)1226 381722

Web www.delta-adhesives.co.uk

Contact person Sales@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 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.

D305 AQUA STICK

Precautionary statements	<p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
Contains	<p>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 \leq 700), TRIETHYLENETETRAMINE</p>
Supplementary precautionary statements	<p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p>

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

D305 AQUA STICK

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

D305 AQUA STICK

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.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

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

Environmental precautions	Avoid discharge into drains or watercourses or onto the ground.
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up	For waste disposal, see Section 13.
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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.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions	Avoid contact with skin. Avoid contact with eyes.
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7.2. Conditions for safe storage, including any incompatibilities

D305 AQUA STICK

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 (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/kg
 - Sediment (Marinewater); 100 mg/kg
 - Soil; 100 mg/kg
 REACH dossier information

D305 AQUA STICK**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 ³
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/m ³ Industry - Inhalation; Short term local effects: 16 mg/m ³ Industry - Dermal; Long term systemic effects: 1.23 mg/m ³ REACH dossier information
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**

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

D305 AQUA STICK

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

D305 AQUA STICK**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 (LD₅₀) 11,400.0
mg/kg)

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀) 1,200.0
mg/kg)

Species Rat

PHENOL**Acute toxicity - oral**

Acute toxicity oral (LD₅₀) 317.0
mg/kg)

Species Rat

ATE oral (mg/kg) 100.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀) 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.

SECTION 12: Ecological Information**12.1. Toxicity****Ecological information on ingredients.****EPOXY RESIN (Number average MW <= 700)****Acute aquatic toxicity**

D305 AQUA STICK

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 EC ₅₀ , 96 hours: 220 mg/l, Scenedesmus subspicatus
<u>Chronic aquatic toxicity</u>	
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 0.3 mg/l, Daphnia magna

PHENOL

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

D305 AQUA STICK

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

D305 AQUA STICK

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. 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.