

D307 COPPER STICK**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product name D307 COPPER 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
39-40 claycliffe Business Park
Barugh Green, Barnsley
South Yorkshire
S75 1JU, UK
Tel: +44 (0)1226 381571
Fax: +44 (0)1226 381722

Web www.delta-adhesives.co.ukContact person info@delta-adhesives.co.uk**1.4. Emergency telephone number**

Emergency telephone +44 (0)1226 381571 (Mon - Fri 08:00 - 17:00)

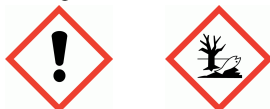
SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification (EC 1272/2008)**

Physical hazards Not Classified

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

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411

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

2.2. Label elements**Pictogram**

Signal word Warning

Hazard statements H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements	P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. 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. P333+P313 If skin irritation or rash occurs: 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, EPOXY RESIN (Number average MW \leq 700)
Supplementary precautionary statements	P264 Wash contaminated skin thoroughly after handling. P337+P313 If eye irritation persists: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse.

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 -

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		
COPPER	1-5%	
CAS number: 7440-50-8	EC number: 231-159-6	REACH registration number: 01-2119480154-42
M factor (Acute) = 100	M factor (Chronic) = 10	
Classification Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL	1-5%	
CAS number: 90-72-2	EC number: 202-013-9	REACH registration number: 01-2119560597-27
Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319		

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	Causes skin irritation. May cause sensitisation or allergic reactions in sensitive individuals.
Eye contact	Irritating to 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.

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

COPPER

Long-term exposure limit (8-hour TWA): WEL 0.2 mg/m³ fume as Cu

WEL = Workplace Exposure Limit

EPOXY RESIN (Number average MW <= 700) (CAS: 25068-38-6)

DNEL	Industry - Inhalation; Long term systemic effects: 12.25 mg/m ³ Industry - Inhalation; Short term systemic effects: 12.25 mg/m ³ 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

COPPER (CAS: 7440-50-8)

DNEL	Workers - Inhalation; Short term systemic effects: 20 mg/m ³ Workers - Dermal; Long term systemic effects: 137 mg/kg/day Workers - Dermal; Short term systemic effects: 273 mg/kg/day
PNEC	- Fresh water; 7.8 µg/L - Marine water; 5.2 µg/L - STP; 230 µg/L - Sediment (Freshwater); 87 mg/kg - Sediment (Marinewater); 676 mg/kg - Soil; 65 mg/kg

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (CAS: 90-72-2)

DNEL	Industry - Inhalation; Long term systemic effects: 0.31 mg/m ³ Industry - Dermal; Long term systemic effects: 0.2 mg/kg/day
PNEC	- Intermittent release; 0.84 mg/l - Marine water; 0.0084 mg/l - Fresh water; 0.084 mg/l - STP; 0.2 mg/l

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	Red-brown. Beige.
Odour	Characteristic.
Odour threshold	Not determined.
pH	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.
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.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.
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10.3. Possibility of hazardous reactions**10.4. Conditions to avoid**

Conditions to avoid	Avoid contact with the following materials: Acids.
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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) 21,739.13

Skin sensitisation

Skin sensitisation Sensitising.

Ingestion May cause discomfort.

Skin contact Irritating to skin. May cause sensitisation by skin contact.

Eye contact Irritation of eyes and mucous membranes.

Route of exposure Skin and/or eye contact.

Toxicological information on ingredients.**TALC****Carcinogenicity**

IARC carcinogenicity IARC Group 2B Possibly carcinogenic to humans.

EPOXY RESIN (Number average MW <= 700)**Acute toxicity - oral**Acute toxicity oral (LD₅₀ mg/kg) 11,400.0

Species Rat

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

Species Rat

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL**Acute toxicity - oral**Acute toxicity oral (LD₅₀ mg/kg) 2,169.0

Species Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermalAcute toxicity dermal (LD₅₀ mg/kg) 1.0

Species

Rat

SECTION 12: Ecological Information**12.1. Toxicity****Ecological information on ingredients.****EPOXY RESIN (Number average MW <= 700)****Acute aquatic toxicity****Acute toxicity - fish** LC50, 96 hours: 2 mg/l, Oncorhynchus mykiss (Rainbow trout)**Acute toxicity - aquatic invertebrates** EC₅₀, 48 hours: 1.8 mg/l, Daphnia magna**Acute toxicity - aquatic plants** EC₅₀, 72 hours: 11 mg/l, Freshwater algae
EC₅₀, 96 hours: 220 mg/l, Scenedesmus subspicatus**Chronic aquatic toxicity****Chronic toxicity - aquatic invertebrates** NOEC, 21 days: 0.3 mg/l, Daphnia magna**COPPER****Acute aquatic toxicity****LE(C)₅₀** 0.001 < L(E)C50 ≤ 0.01**M factor (Acute)** 100**Chronic aquatic toxicity****M factor (Chronic)** 10**2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL****Acute aquatic toxicity****Acute toxicity - fish** LC50, 96 hours: 180 - 240 mg/l, Oncorhynchus mykiss (Rainbow trout)
LC50, 96 hours: 175 mg/l, Cyprinus carpio (Common carp)**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.

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**14.1. UN number**

UN No. (ADR/RID) 3077

UN No. (IMDG) 3077

UN No. (ICAO) 3077

UN No. (ADN) 3077

14.2. UN proper shipping name

Proper shipping name (ADR/RID) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS COPPER, EPOXY RESIN (Number average MW <= 700))

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS COPPER, EPOXY RESIN (Number average MW <= 700))

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS COPPER, EPOXY RESIN (Number average MW <= 700))

Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS COPPER, EPOXY RESIN (Number average MW <= 700))

14.3. Transport hazard class(es)

ADR/RID class	9
ADR/RID classification code	M7
ADR/RID label	9
IMDG class	9
ICAO class/division	9
ADN class	9

Transport labels**14.4. Packing group**

ADR/RID packing group	III
IMDG packing group	III
ADN packing group	III
ICAO packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

**14.6. Special precautions for user**

EmS	F-A, S-F
ADR transport category	3
Emergency Action Code	2Z
Hazard Identification Number (ADR/RID)	90

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

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

Revision date	15/05/2018
Version number	2.000
Supersedes date	12/02/2018
SDS number	20657
Hazard statements in full	H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H400 Very toxic to aquatic life. 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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