



SAFETY DATA SHEET
Delta D304 Steel Stick Epoxy Putty

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

1.1. Product identifier

Product name D304 Steel Stick Epoxy Putty
Product number D304

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 Limited
Units 39-40, Claycliffe Business Park
Cannon Way, Barugh Green
Barnsley
South Yorkshire
S75 1JU
Tel: +44 (0) 1226 381 571
Fax: +44 (0) 1226 381 722
email: info@delta-adhesives.co.uk

Web www.delta-adhesives.co.uk

1.4. Emergency telephone number

Emergency telephone +44 (0) 1226 381 571 (08:00 - 16:00 Mon-Fri)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards
Not Classified

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

Environmental hazards
Aquatic Chronic 3 - H412

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

Xi; R36/38. R52/53, R43

Human health

May cause skin sensitisation or allergic reactions in sensitive individuals. Irritating to eyes and skin.

2.2. Label elements

Pictogram



Signal word Warning

Hazard statements

Delta D304 Steel Stick Epoxy Putty

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H412 Harmful 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

EPOXY RESIN (Number average MW <= 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 | |
| Classification | Classification (67/548/EEC or 1999/45/EC) |
| Not Classified | - |
| EPOXY RESIN (Number average MW <= 700) | 20-50% |
| CAS number: 25068-38-6 EC number: 500-033-5 REACH registration number: 01-2119456619-26-XXXX | |
| Classification | Classification (67/548/EEC or 1999/45/EC) |
| Skin Irrit. 2 - H315 | R43 Xi;R36/38 N;R51/53 |
| Eye Irrit. 2 - H319 | |
| Skin Sens. 1 - H317 | |
| Aquatic Chronic 2 - H411 | |

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

Delta D304 Steel Stick Epoxy Putty

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.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

Unsuitable extinguishing media

DO NOT use water if avoidable.

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.

Delta D304 Steel Stick Epoxy Putty

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

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 |

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 hands 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

Delta D304 Steel Stick Epoxy Putty

Solid. Coloured paste.

Colour

Grey. Black.

Odour

Characteristic. Sulphur.

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

2.25

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

There are no known reactivity hazards associated with this product.

Delta D304 Steel Stick Epoxy Putty

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

Avoid contact with the following materials: Acids.

10.5. Incompatible materials

Materials to avoid

Acids. Amines.

10.6. Hazardous decomposition products

Oxides of carbon. Oxides of nitrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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 entry

Skin and/or eye contact.

Toxicological information on ingredients.

EPOXY RESIN (Number average MW \leq 700)

Acute toxicity - oral

Acute toxicity oral (LD50 mg/kg)

11,400

Species

Rat

Acute toxicity - dermal

Acute toxicity dermal (LD50 mg/kg)

1200

Species

Rat

SECTION 12: Ecological Information

12.1. Toxicity

Delta D304 Steel Stick Epoxy Putty

Ecological information on ingredients.

EPOXY RESIN (Number average MW <= 700)

Acute toxicity - fish

LC50, 96 hours: 2 mg/l, Onchorhynchus 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 toxicity - aquatic invertebrates

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

12.2. Persistence and degradability

Persistence and degradability

The product is not biodegradable.

Ecological information on ingredients.

EPOXY RESIN (Number average MW <= 700)

Biodegradation

- : 28 days

12.3. Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

Not determined.

Ecological information on ingredients.

EPOXY RESIN (Number average MW <= 700)

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

Soil - Koc: 1800 - 4400 @ °C Estimated Value

Henry's law constant

4.93E-05 Pa m³/mol @ 25°C

12.5. 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)

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

12.6. Other adverse effects

Delta D304 Steel Stick Epoxy Putty

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods

Dispose of waste via a licensed waste disposal contractor.

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 MARPOL73/78 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

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

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 19/05/2014

Revision 1

SDS number 20396

Hazard statements in full

Delta D304 Steel Stick Epoxy Putty

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Disclaimer

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.