

SAFETY DATA SHEET M-METAL 500 Aqua Stick Epoxy Putty

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

1.1. Product identifier

Product name M-METAL 500 Aqua Stick Epoxy Putty
Product number M-METAL 500

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 Maxkote Ltd
Tower Court, Oakdale Road
Clifton Moor
York
North Yorkshire
YO30 4XL
Tel: 01904 809 773
Web email: info@MaxKote.co.uk

1.4. Emergency telephone number

Emergency telephone 01904 809 773

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

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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

P264 Wash contaminated skin thoroughly after handling.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 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.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P501 Dispose of contents/container in accordance with national regulations.

Contains

EPOXY RESIN (Number average MW <= 700)

Supplementary precautionary statements

P302+P352 IF ON SKIN: Wash with plenty of water.

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	
TITANIUM DIOXIDE	5-10%
CAS number: 13463-67-7 EC number: 236-675-5 REACH registration number: 01-2119489379-17-XXXX	
Classification	Classification (67/548/EEC or 1999/45/EC)
Not Classified	-

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PHENOL	>0.5 <1.0%
CAS number: 108-95-2 EC number: 203-632-7 REACH registration number: 01-2119471329-32-XXXX	
Classification	Classification (67/548/EEC or 1999/45/EC)
Acute Tox. 3 - H301	Muta. Cat. 3;R68 T;R23/24/25 C;R34 Xn;R48/20/21/22
Acute Tox. 3 - H311	
Acute Tox. 3 - H331	
Skin Corr. 1B - H314	
Muta. 2 - H341	
STOT RE 2 - H373	

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.

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.

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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

TITANIUM DIOXIDE

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust

Long-term exposure limit (8-hour TWA): WEL 4 mg/m³ respirable 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.

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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

PHENOL (CAS: 108-95-2)

DNEL Industry - Inhalation; Long term systemic effects: 8 mg/m³
 Industry - Inhalation; Short term local effects: 16 mg/m³
 Industry - Dermal; Long term systemic effects: 1.23 mg/m³
 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 hands at the end of each work shift and before eating, smoking and using

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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

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.

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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.

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****Acute toxicity - oral**

ATE oral (mg/kg)

10,101.01010101

Acute toxicity - dermal

ATE dermal (mg/kg)

30303.03030303

Acute toxicity - inhalation

ATE inhalation (vapours mg/l)

303.03030303

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.

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Toxicological information on ingredients.

EPOXY RESIN (Number average MW <= 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

PHENOL

Acute toxicity - oral

Acute toxicity oral (LD50 mg/kg)

650

Species

Rat

Acute toxicity - dermal

Acute toxicity dermal (LD50 mg/kg)

0.625

Species

Rat

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 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

PHENOL

Acute toxicity - fish

LC50, 96 hours: 67.5 mg/l, Pimephales promelas (Fat-head Minnow)

12.2. Persistence and degradability

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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**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.

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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 20398

Risk phrases in full

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R34 Causes burns.

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

R48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R68 Possible risk of irreversible effects.

Hazard statements in full

M-METAL 500 Aqua Stick Epoxy Putty

- H301 Toxic if swallowed.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- 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.
- 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.