

SAFETY DATA SHEET

M-METAL 800 EPOXY REPAIR CEMENT ACTIVATOR

Page: 1

Compilation date: Feb 2021

Revision No: 2

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

1.1. Product identifier

Product name: M-METAL 800 EPOXY REPAIR CEMENT ACTIVATOR

Product code: M-METAL 800

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Company name: MaxKote Ltd
Tower Court, Oakdale Road
Clifton Moor
York
North Yorkshire
YO30 4XL
United Kingdom
Tel: 01904 809 773
Email: info@MaxKote.co.uk

1.4. Emergency telephone number

Emergency tel: 01904 809 773

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP: C: R34; Sens.: R43; N: R51/53; Xn: R62; Xn: R63

Classification under CLP: Aquatic Chronic 2: H411; Repr. 2: H361fd; Skin Corr. 1B: H314; Skin Sens. 1A: H317; -: EUH208

Most important adverse effects: Causes burns. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Possible risk of impaired fertility. Possible risk of harm to the unborn child.

2.2. Label elements

Label elements:

Hazard statements: EUH208: Contains m-phenylenebis(methylamine), phenol, styrolised. May produce an allergic reaction.
H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.
H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child.
H411: Toxic to aquatic life with long lasting effects.

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SAFETY DATA SHEET
M-METAL 800 EPOXY REPAIR CEMENT ACTIVATOR

Page: 2

Signal words: Danger

Hazard pictograms: GHS05: Corrosion

GHS07: Exclamation mark

GHS08: Health hazard

GHS09: Environmental



Precautionary statements: P102: Keep out of reach of children.

P202: Do not handle until all safety precautions have been read and understood.

P260: Do not breathe vapours.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P302+352: IF ON SKIN: Wash with plenty of water/.

P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+313: If skin irritation or rash occurs: Get medical advice/attention.

P501: Dispose of contents/container to hazardous or special waste collection point.

Label elements under CHIP:

Hazard symbols: Corrosive.

Dangerous for the environment.



Risk phrases: R34: Causes burns.

R43: May cause sensitisation by skin contact.

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

R62: Possible risk of impaired fertility.

R63: Possible risk of harm to the unborn child.

Safety phrases: S1/2: Keep locked up and out of the reach of children.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S29: Do not empty into drains.

S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

[cont...]

SAFETY DATA SHEET

M-METAL 800 EPOXY REPAIR CEMENT ACTIVATOR

Page: 3

Precautionary phrases: Contains m-phenylenebis(methylamine), trimethylhexane-1,6-diamine, phenol, styrolised. May produce an allergic reaction.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

FATTY ACIDS, C18-UNSATURATED, DIMERS, OLIGOMERIC REACTION PRODUCTS WITH TALL-OIL FATTY ACIDS AND TRIETHYLENETETRAMINE

EINECS	CAS	CHIP Classification	CLP Classification	Percent
-	68082-29-1	-	Eye Dam. 1: H318; Aquatic Chronic 2: H411; Skin Sens. 1: H317; Skin Irrit. 2: H315	10-30%

4-NONYLPHENOL, BRANCHED

284-325-5	84852-15-3	Xn: R62; Xn: R63; Xn: R22; C: R34; N: R50/53	Repr. 2: H361fd; Acute Tox. 4: H302; Skin Corr. 1B: H314; Aquatic Chronic 1: H410; Aquatic Acute 1: H400	10-30%
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2-PIPERAZIN-1-YLETHYLAMINE

205-411-0	140-31-8	Xn: R21/22; C: R34; Sens.: R43; -: R52/53	Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317; Aquatic Chronic 3: H412	1-10%
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4-TERT-BUTYLPHENOL

202-679-0	98-54-4	Xi: R38; Xi: R41; Xn: R62	Repr. 2: H361f; Skin Irrit. 2: H315; Eye Dam. 1: H318	1-10%
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M-PHENYLENEBIS(METHYLAMINE)

216-032-5	1477-55-0	C: R34; Xn: R20/22; Sens.: R43	Skin Corr. 1B: H314; Acute Tox. 4: H302; Skin Sens. 1: H317; Aquatic Chronic 3: H412; Acute Tox. 4: H332	<1%
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TRIMETHYLHEXANE-1,6-DIAMINE

247-063-2	25513-64-8	C: R34; Xn: R22; Sens.: R43	Skin Corr. 1C: H314; Acute Tox. 4: H302; Skin Sens. 1A: H317; Aquatic Chronic 3: H412; Acute Tox. 4: H312	<1%
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PHENOL, STYROLISED

262-975-0	61788-44-1	Xi: R38; Sens.: R43; N: R51/53	Skin Irrit. 2: H315; Skin Sens. 1: H317; Aquatic Chronic 2: H411	<1%
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Section 4: First aid measures

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SAFETY DATA SHEET
M-METAL 800 EPOXY REPAIR CEMENT ACTIVATOR

Page: 4

4.1. Description of first aid measures

- Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Consult a doctor.
- Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.
- Ingestion:** Wash out mouth with water. Consult a doctor.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

- Skin contact:** There may be irritation and redness at the site of contact.
- Eye contact:** There may be irritation and redness. The eyes may water profusely.
- Ingestion:** There may be soreness and redness of the mouth and throat.
- Inhalation:** Exposure may cause coughing or wheezing.
- Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Not applicable.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Do not create dust. Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Transfer to a closable, labelled salvage container for disposal by an appropriate method.

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SAFETY DATA SHEET
M-METAL 800 EPOXY REPAIR CEMENT ACTIVATOR

Page: 5

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Avoid the formation or spread of dust in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

DNEL/PNEC Values

Hazardous ingredients:

FATTY ACIDS, C18-UNSATURATED, DIMERS, OLIGOMERIC REACTION PRODUCTS WITH TALL-OIL FATTY ACIDS AND TRIET

Type	Exposure	Value	Population	Effect
DNEL	Dermal	1.1mg/Kg	Workers	Local
PNEC	Fresh water	0.00434mg/l	Workers	Systemic

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency. Respiratory protective device with particle filter.

Hand protection: Protective gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Paste

Colour: Grey

Odour: Ammoniacal

Solubility in water: Insoluble

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SAFETY DATA SHEET
M-METAL 800 EPOXY REPAIR CEMENT ACTIVATOR

Page: 6

Viscosity: Non-viscous

Boiling point/range°C: >200

Autoflammability°C: 380

Flash point°C: >100

Relative density: 1.4

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.
Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

4-NONYLPHENOL, BRANCHED

ORL	RAT	LD50	1300	mg/kg
SKN	RBT	LDLO	3160	mg/kg

2-PIPERAZIN-1-YLETHYLAMINE

IPR	MUS	LD50	250	mg/kg
ORL	RAT	LD50	2140	µl/kg

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SAFETY DATA SHEET
M-METAL 800 EPOXY REPAIR CEMENT ACTIVATOR

Page: 7

M-PHENYLENEBIS(METHYLAMINE)

DERMAL	RAT		3100	mg/kg
ORAL	RAT	LD50	930	mg/kg
LD50				

TRIMETHYLHEXANE-1,6-DIAMINE

DERMAL	RAT		1280	mg/kg
ORAL	RAT	LD50	910	mg/kg
LD50				

PHENOL, STYROLISED

DERMAL	RAT		>2000	mg/kg
ORAL	RAT	LD50	>2000	mg/kg
LD50				

Relevant effects for mixture:

Effect		Basis
Corrosivity	OPT INH DRM	Hazardous: calculated
Sensitisation	DRM	Hazardous: calculated
Toxicity for reproduction	--	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

M-PHENYLENEBIS(METHYLAMINE)

DAPHNIA	48H EC50	15.2	mg/l
FISH	96H LC50	>100	mg/l

TRIMETHYLHEXANE-1,6-DIAMINE

FISH	48H EC50	174	mg/l
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SAFETY DATA SHEET
M-METAL 800 EPOXY REPAIR CEMENT ACTIVATOR

Page: 8

PHENOL, STYROLISED

DAPHNIA		1-10	mg/l
FISH	48H EC50	14.8	mg/l
	96H LC50		

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN1759

14.2. UN proper shipping name

Shipping name: CORROSIVE SOLID, N.O.S.
(4-NONYLPHENOL, BRANCHED)

14.3. Transport hazard class(es)

Transport class: 8

14.4. Packing group

Packing group: II

14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: Yes

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SAFETY DATA SHEET
M-METAL 800 EPOXY REPAIR CEMENT ACTIVATOR

Page: 9

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 2

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: EUH208: Contains <name of sensitising substance>. May produce an allergic reaction.
H302: Harmful if swallowed.
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.
H332: Harmful if inhaled.
H361f: Suspected of damaging fertility.
H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child.
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.
R20/22: Harmful by inhalation and if swallowed.
R21/22: Harmful in contact with skin and if swallowed.
R22: Harmful if swallowed.
R34: Causes burns.
R38: Irritating to skin.
R41: Risk of serious damage to eyes.
R43: May cause sensitisation by skin contact.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the

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SAFETY DATA SHEET

M-METAL 800 EPOXY REPAIR CEMENT ACTIVATOR

Page: 10

aquatic environment.

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.

R62: Possible risk of impaired fertility.

R63: Possible risk of harm to the unborn child.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.