

## SAFETY DATA SHEET

M-CHEM 100 Chemical Resistant Epoxy Coating  
BASE COMPONENT

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Compilation date: 27/04/2020

Revision No: 3

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

#### 1.1. Product identifier

**Product name:** M-CHEM 100 Chemical Resistant Epoxy Coating BASE

#### 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 Limited

Tower Court,

Oakdale Road

Clifton Moor

York

YO30 4XL

United Kingdom

**Tel:** +44 (0) 1904 809 773

**Email:** [info@maxkote.co.uk](mailto:info@maxkote.co.uk)

#### 1.4. Emergency telephone number

**Emergency tel:** +44 (0) 1904 809 773

### Section 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**Classification under CHIP:** Xi: R36/38; Sens.: R43; N: R51/53

**Classification under CLP:** Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317; -: EUH205

**Most important adverse effects:** Irritating to eyes and skin. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### 2.2. Label elements

**Label elements:**

**Hazard statements:** EUH205: Contains epoxy constituents. May produce an allergic reaction.

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.

**Signal words:** Warning

**Hazard pictograms:** GHS07: Exclamation mark

GHS09: Environmental

[cont...]

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**Precautionary statements:** P102: Keep out of reach of children.  
P273: Avoid release to the environment.  
P264: Wash skin thoroughly after handling.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P302+352: IF ON SKIN: Wash with plenty of water/.  
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:** Irritant.  
Dangerous for the environment.



**Risk phrases:** R36/38: Irritating to eyes and skin.  
R43: May cause sensitisation by skin contact.  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety phrases:** S2: Keep out of the reach of children.  
S24: Avoid contact with skin.  
S29: Do not empty into drains.  
S37: Wear suitable gloves.  
S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

### 2.3. Other hazards

## Section 3: Composition/information on ingredients

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

### 3.2. Mixtures

#### Hazardous ingredients:

BIPHENOL A-(EPICHLORHYDRIN) {REACTION PRODUCT}

EINECS	CAS	CHIP Classification	CLP Classification	Percent
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[cont...]

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500-033-5	25068-38-6	Xi: R36/38; Sens.: R43; N: R51/53	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317; Aquatic Chronic 2: H411	10-30%
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### BISPHENOL F TYPE EPOXY RESIN

500-108-2	28064-14-4	Xi: R36/38; N: R51/53; Sens.: R43	Skin Irrit. 2: H315; Eye Irrit. 2: H319; Skin Sens. 1: H317; Aquatic Chronic 2: H411	10-30%
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### OXIRANE, MONO[(C12-14ALKYLOXY)METHYL] DERIVATIVES

271-846-8	68609-97-2	Xi: R38; Sens.: R43	Skin Irrit. 2: H315; Skin Sens. 1: H317	1-10%
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## Section 4: First aid measures

### 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.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

**Ingestion:** Do not induce vomiting. Wash out mouth with water. If conscious, give half a litre of water to drink immediately. Consult a doctor.

**Inhalation:** Not applicable.

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

**Skin contact:** There may be mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** There may be irritation of the throat.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

**Delayed / immediate effects:** Not applicable.

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

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Alcohol or polymer foam. Dry chemical powder. Carbon dioxide.

### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus.

## Section 6: Accidental release measures

[cont...]

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### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Refer to section 8 of SDS for personal protection details.

### 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. Refer to section 13 of SDS for suitable method of disposal.

### 6.4. Reference to other sections

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Ensure there is sufficient ventilation of the area.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in a cool, well ventilated area. Keep container tightly closed. Keep away from direct sunlight. Avoid incompatible materials and conditions - see section 10 of SDS.

**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

### 8.2. Exposure controls

**DNEL / PNEC:** No data available.

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

**Respiratory protection:** Respiratory protection not required.

**Hand protection:** Protective gloves.

**Eye protection:** Safety glasses.

**Skin protection:** Impermeable protective clothing.

**Environmental:** Prevent from entering in public sewers or the immediate environment.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**State:** Liquid

[cont...]

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**Colour:** Various

**Odour:** Barely perceptible odour

**Evaporation rate:** Negligible

**Oxidising:** Non-oxidising (by EC criteria)

**Solubility in water:** Insoluble

**Viscosity:** Non-viscous

**Boiling point/range°C:** >200

**Flash point°C:** >150

**Relative density:** 1.75g/cc

### 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.

### 10.4. Conditions to avoid

**Conditions to avoid:** Direct sunlight. Flames.

### 10.5. Incompatible materials

**Materials to avoid:** Strong acids. Strong oxidising agents. Amines. Alkalis.

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Toxicity values:

Route	Species	Test	Value	Units
ORAL	RBT	LD50	>2000	mg/kg
ORAL	RAT	LD50	>2000	mg/kg

[cont...]

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### Hazardous ingredients:

#### BISPHENOL A-(EPICHLORHYDRIN) {REACTION PRODUCT}

ORL	MUS	LD50	15600	mg/kg
ORL	RAT	LD50	11400	mg/kg
SKN	RBT	LD50	>20	ml/kg

#### OXIRANE, MONO[(C12-14ALKYLOXY)METHYL] DERIVATIVES

ORL	RAT	LD50	17100	mg/kg
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### Relevant effects for mixture:

Effect	Route	Basis
Irritation	OPT DRM	Hazardous: calculated
Sensitisation	DRM	Hazardous: calculated

### Symptoms / routes of exposure

**Skin contact:** There may be mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** There may be irritation of the throat.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

**Delayed / immediate effects:** Not applicable.

## Section 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicity values:

Species	Test	Value	Units
FISH	96H LC50	2	mg/l

### 12.2. Persistence and degradability

**Persistence and degradability:** Not biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** Bioaccumulation potential.

### 12.4. Mobility in soil

**Mobility:** Insoluble in water.

### 12.5. Results of PBT and vPvB assessment

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

[cont...]

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### 12.6. Other adverse effects

**Other adverse effects:** Toxic to aquatic organisms.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company. Mixed material, once fully cured, can be disposed as solid waste.

**Waste code number:** 08 04 09

**Disposal of packaging:** Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

**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:** UN3082

### 14.2. UN proper shipping name

**Shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(BISPHENOL A-(EPICHLORHYDRIN) {REACTION PRODUCT})

### 14.3. Transport hazard class(es)

**Transport class:** 9

### 14.4. Packing group

### 14.5. Environmental hazards

**Packing group:** III

**Environmentally hazardous:** Yes

**Marine pollutant:** Yes

### 14.6. Special precautions for user

**Tunnel code:** E

**Transport category:** 3

## Section 15: Regulatory information

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

### 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

[cont...]

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### Other information

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/83.

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

**Phrases used in s.2 and s.3:** EUH205: Contains epoxy constituents. May produce an allergic reaction.

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.

R36/38: Irritating to eyes and skin.

R38: Irritating to skin.

R43: May cause sensitisation by skin contact.

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

**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.