

MATERIAL SAFETY DATA SHEET

108 1600

Cretex MC – Resin



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY

Product Name: **CRETEX MC STANDARD – RESIN**
 Company Name: Polycote UK
 Centre Point • Wolseley Road
 Woburn Road Industrial Estate
 Kempston • Beds MK42 7EF
 Telephone Number: 01234 846400

SECTION 2: HAZARDS IDENTIFICATION

Classification under (EC) No. 1272/2008 (CLP):
 May cause cancer. Highly flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. May cause respiratory irritation.

Hazard pictograms:



Signal word: **Danger**
 Hazard statements: H225: Highly flammable liquid and vapour.
 H315: Causes skin irritation.
 H317: May cause an allergic skin reaction.
 H335: May cause respiratory irritation.
 H350: May cause cancer.

Additional information:
 For full text of Hazard statements see section 16.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name:

CAS No.	EC No.	Classification
methyl methacrylate	methyl 2-methylprop-2-enoate	methyl 2-methylpropenoate
80-62-6	201-297-1	Flam. Liq. 2: H225; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335
N,N-dimethyl-p-toluidine		
99-97-8	202-805-4	Acute Tox. 3 H301; Acute Tox. 3 H311; Acute tox. 3 H331; STOT RE 2 H373; Aquatic Chronic 3 H412
tetramethylene dimethacrylate		
2082-81-7	218-218-1	Skin Sens. 1B H317
2,6-di-tert-butyl-p-cresol		
128-37-0	204-881-4	

SECTION 4: FIRST AID MEASURES

Inhalation: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTRE/doctor if you feel unwell.
 Skin contact: Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. Rinse skin with water. Call a POISON CENTRE/doctor if you feel unwell.
 Eye contact: If exposed or concerned: Get medical advice/attention.
 Ingestion: If exposed or concerned: Get medical advice/attention.
Most important symptoms and effects, both acute and delayed
 Causes burns. Allergic contact dermatitis.
 Immediate / special treatment:
 Specific treatment (see Medical advice on this label). Call a poison centre/doctor if you feel unwell. Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used.
 Unsuitable media: Water jet spray.
 Exposure hazards: Highly flammable liquid and vapour. May decompose in a fire, giving off toxic and irritant vapours.
 Advice for firefighters: Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Provide adequate ventilation. Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems. Ensure full personal protection (including respiratory protection) during removal of spillages.
 Environmental precautions: Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.
 Methods for cleaning up: Collect spillage. Absorb spillages into sand, earth or any suitable absorbent material. Containers must not be unctured or destroyed by burning, even when empty.

SECTION 7: HANDLING AND STORAGE

Handling: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof (electrical/ventilating/lighting) equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. Wash hands and exposed skin thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Do not handle until all safety precautions have been read and understood.
 Storage: Store in a cool, well ventilated area. Keep container tightly closed. Store locked-up. Storage temperature: ambient.
 Specific end use(s): Concrete repair resin for use with Polycote repair powders.

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SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**Occupational Exposure Limits:**

Name	CAS No	LEL (8 hr TWA ppm)	LEL (8hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)
Methyl methacrylate	80-62-6	50	208	100	416
2,6-Di-tert-butyl-p-cresol	128-37-0		10		

Appropriate engineering controls:

Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems. Ensure adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.



Eye protection: Wear eye protection with side protection (EN166).

Skin protection: Wear protective clothing and gloves: Impervious gloves (EN 374).

Respiratory protection: Normally no personal respiratory protection is needed.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Liquid
Colour:	Bluish
Odour:	Ester-like
Boiling point:	Not known
Flash point:	10°C (DIN 51755) (methyl methacrylate)
Upper/lower flammability or explosive limits:	12.5%(V)(methyl methacrylate) 2.1%(V) at 10.5°C (methyl methacrylate)
Vapour pressure:	ca. 40 hPa (20°C)
Vapour density:	>1 (20°C)
Viscosity:	Dynamic: <10 mPa-s (23°C) Kinetic
Density (g/ml):	Not known
Solubility(ies):	Solubility (Water) ca. 16 g/l (20°C) Solubility (Other) soluble in ethyl acetate
Ignition temp:	Not pyrophoric
Explosive properties:	Ignition temperature: 430°C Method: DIN 51794

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	None anticipated.
Chemical stability:	Stable under normal conditions.
Hazardous reactions:	No hazardous reactions known if used for its intended purpose.
Conditions to avoid:	Avoid friction, sparks or other means of ignition.
Materials to avoid:	Not known.
Haz. decomp. products:	No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION**Toxicological effects:****Acute toxicity – Ingestion:**

LD50 Species: Rat. Dose: >5,000 mg/kg Method: OECD 401. Related to substance: methyl methacrylate. LD50 Species: Rat. Dose: 996 mg/kg. Related to substance: N,N-dimethyl-p-toluidine.

Acute toxicity – Skin Contact:

LD50 Species: Rabbit. Dose >5,000 mg/kg. Related to substance: methyl methacrylate.

Acute toxicity – Inhalation:

LC50 Species: Rat. Exposure duration: 4 h. Dose: 29.8 mg/l. Related to substance: methyl methacrylate.

Skin corrosion/irritation:

Self classification: Causes skin irritation. Species: Rabbit. Result: Not irritating. Method: FDA 1959 Draize, occlusive. Exposure duration: 24 h. Related to substance: methyl methacrylate.

Serious eye damage/irritation:

Species: Rabbit. Result: Not irritating. Method: Draize. Related to substance: methyl methacrylate.

Skin sensitization data:

Self classification: May cause an allergic skin reaction. Remarks: In sensitization tests on guinea pigs with and without adjuvant, both positive and negative results were found. In humans various types of allergic reactions have been observed (symptoms: headache, eye irritations, skin affections). Related to substance: methyl methacrylate.

Respiratory sensitization data:

Not classified.

Germ cell mutagenicity:

There is no evidence of mutagenic potential.

Carcinogenicity:

Self classification: May cause cancer. Presumed to have carcinogenic potential for humans. Crclonogen Category 1B (UN-GHS). Related to substance: N,N-dimethyl-p-toluidine.

STOT – single exposure:

Self classification: May cause respiratory irritation.

STOT – repeated exposure:

Rat, inhalation, 2 Years. Findings: Damage to mucous membranes in the nose at 400 ppm. Related to substance: methyl methacrylate. Rat, in drinking water, 2 Years. Findings: no toxic effects. Related to substance: methyl methacrylate.

SECTION 12: ECOLOGICAL INFORMATION**Toxicity – Aquatic invertebrates:**

Species: Daphnia magna. Exposure duration: 48 h EC50: 69 mg/l Method: OECD 202. Related to substance: methyl methacrylate. Species: Daphnia magna. Exposure duration: 21 d EC50: 49 mg/l. Method: OECD 202 part 2, flow through. Related to substance: methyl methacrylate. Species: Daphnia magna. Exposure duration: 21 d LOEL: 68 mg/l. Method: OECD 202 part 2, flow through. Related to substance: methyl methacrylate. Species: Daphnia magna. Exposure duration: 21 d NOEL: 37 mg/l. Method: OECD 202 part 2, flow through.

Toxicity – fish:

Species: Oncorhynchus mykiss, rainbow trout, Exposure duration: 96 h LC50: flow > 79 mg/l Method: OECD 203, flow through GLP, Related to substance: methyl methacrylate.

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SECTION 12: ECOLOGICAL INFORMATION – Cont.**Toxicity – Algae:**

Species: *Scenedesmus quadricauda*. Exposure duration: 8 d
EC3: 37 mg/l Method: DIN 38412, T.9. Related to substance:
methyl methacrylate. Species: *selenastrum capricornutum*.
Exposure duration: 96h EC50: 170 mg/l. Method: OECD 201.
Related to substance: methyl methacrylate.

Toxicity – Sediment Compartment.

Not classified.

Persistence and Degradation:

Biological degradability: 94%. Exposure duration: 14 d. Result:
readily biodegradable. Method: OECD 301 C. Related to
substance: methyl methacrylate.

Bioaccumulative potential:

Accumulation in organisms is not expected due to the
coefficient of distribution of n- octonal in water (log Pow).

Mobility in soil:

Soil Remarks: Binding to the solid soil phase, sediment or
clarification sludge is not expected. Water remarks: The
substance evaporates gradually into the atmosphere from the
surface of the water. If the substance does get into the
environment, it tends to remain in the compartment it was
discharged into.

SECTION 13: DISPOSAL CONSIDERATIONS**Waste treatment methods:**

Dispose of contents in accordance with local, state or national
legislation. Recycle only completely emptied packaging.
Containers must not be punctured or destroyed by burning,
even when empty. Do not allow to enter drains, sewers or
watercourses. Do NOT landfill. Normal disposal is via
incineration operated by an accredited disposal contractor.
Send to a licensed recycler, reclaimor or incinerator.

SECTION 14: TRANSPORT INFORMATION

UN Number: UN 1247
UN proper shipping name: METHYL METHACRYLATE MONOMER, STABILIZED

ADR/RID

Classification: 3
Classification Code: F1
Special provisions: Not applicable
Limited Quantities: 1 L
Excepted Quantities: E2
Emergency Action Code: 3YE
Mixed Packing Instructions for Packages: P001, IBC02 R001
Special Packing Provisions for Packages: Not applicable
Mixed Packing Instructions for Packages: MP19
Packing Instructions for Portable tanks: T4
Special Provisions for Portable tanks: TP1
Tank Code for Tanks: LGBF
Vehicle for Tank Carriage: FL
ADR Transport Category: 2
Tunnel Restriction Code: D/E
Special Provisions for Carriage - Operation: S2 S20
ADR HIN: 339

IMDG

Classification: 3
Special provisions: Not applicable
Limited Quantities: 1 L
Excepted Quantities: E2

Mixed Packing Instructions for Packages: P001, IBC02, R001
Special Packing Provisions for Packages: Not applicable
Packing Instructions for Portable tanks: T4
Special Provisions for Portable tanks: TP1
IMDG EMS: Not applicable
Stowage and Handling: Not applicable
ICAO/IATA
Excepted Quantities: E2
Passenger and Cargo Aircraft Limited
Quantities Packing Instructions: Y341
Passenger and Cargo Aircraft Limited
Quantities Max net Qty: 1L
Passenger and Cargo Aircraft
Packing Instructions: 353
Passenger and Cargo Aircraft Max net Qty: 5L
Cargo Aircraft Packing Instructions: 364
Cargo Aircraft Max net qty: 60L
Emergency Response Guidebook
(ERG) Code: 3L
Labels: 3
Packing Group: II
Environmental Hazard: Not classified as a Marine Pollutant

SECTION 15: REGULATORY INFORMATION

No information available.

SECTION 16: OTHER INFORMATION**Hazard Statements:**

H225: Highly flammable liquid and vapour.
H301: Toxic if swallowed.
H311: Toxic in contact with skin.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H330: Fatal if inhaled.
H331: Toxic if inhaled.
H335: May cause respiratory irritation.
H350: May cause cancer.
H373: May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements:

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233: Keep container tightly closed.
P240: Ground and bond container and receiving equipment.
P241: Use explosion-proof [electrical/ventilating/lighting] equipment.
P242: Use non-sparking tools.
P243: Take action to prevent static discharges.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P264: Wash hands and exposed skin thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P272: Contaminated work clothing should not be allowed out of the workplace.
P280: Wear protective gloves/protective clothing/eye
P302+P352: IF ON SKIN: Wash with plenty of water.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

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SECTION 16: OTHER INFORMATION – Cont.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P313: If exposed or concerned: Get medical advice/attention.

P312: Call a POISON CENTRE/doctor if you feel unwell.

P314: Get medical advice/attention if you feel unwell.

P320: Specific treatment is urgent (see Medical Advice on this label).

P321: Specific treatment (see Medical Advice on this label).

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P403+P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

The Safety Data above is applicable to the product only as used according to the purposes and methods described on the relevant Technical Data Sheet, available from Polycote UK on request.

The information above is based on our present knowledge and is believed to be correct but does not purport to be all inclusive and should only be used as a guide. No warranty is implied with respect to the specification of the product. It is intended to describe the product solely in terms of its safety requirements and relates only to the specific material designed and may not be valid for such material used in combination with any other materials or in any process. This data does not constitute the users own assessment of workplace risk as required by other Health and Safety legislation, nor is it a sales specification or indication of suitability for any particular use. The user must satisfy himself as to the suitability of the product for his purpose. No legally valid contractual relationship is established by the above data, and Polycote UK shall not be held liable for any damage resulting from handling or from contact with the above product.

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MATERIAL SAFETY DATA SHEET

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Cretex MC – Powder



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SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY

Product Name: **CRETEx MC STANDARD – POWDER**
 Company Name: Polycote UK
 Centre Point • Wolseley Road
 Woburn Road Industrial Estate
 Kempston • Beds MK42 7EF
 Telephone Number: 01234 846400

SECTION 2: HAZARDS IDENTIFICATION

Regulation (EC) No. 1272/2008 (CLP):

Aquatic Acute 1: Very toxic to aquatic life.
 Eye Irrit. 2: Causes serious eye irritation.
 Org. Perox. B: Heating may cause a fire or explosion.

Hazard pictograms:



Signal word: Danger

Hazard statements: H241: Heating may cause a fire or explosion.
 H319: Causes serious eye irritation.
 H400: Very toxic to aquatic life.

Precautionary statements:

None.

Additional information:

For full text of Hazard/Precautionary statements see section 16.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name:

CAS No:	EC No.	Classification
crystalline silica quartz		
–	604-504-7	Not classified
Lexmark acrylic copolymer		
–	420-880-3	Not classified
dibenzoyl peroxide benzoyl peroxide		
94-36-0	202-327-6	Org. Perox. B H241; Skin Sens. 1 H317; Eye Irrit. 2 H319
barium sulfate		
7727-43-7	231-784-4	Not classified
pigment additive 009		
–	432-260-1	Not classified
Chalk		
13397-25-6	603-784-8	Not classified

SECTION 4: FIRST AID MEASURES

Inhalation: Treat symptomatically.
 Skin contact: Treat symptomatically.
 Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
 Ingestion: Treat symptomatically.
Most important symptoms and effects, both acute and delayed
 May cause irritation.
 Immediate / special treatment:
 Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used.
 Unsuitable media: None.
 Exposure hazards: Heating may cause a fire or explosion. Explosion risk.
 Advice for firefighters: Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Provide adequate ventilation. Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems. Wear suitable protective clothing, gloves and eye/face protection.
 Environmental precautions: Avoid release to the environment. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.
 Methods for cleaning up: Sweep up spilled substance and remove to a safe place. Use vacuum equipment for collecting spilt materials, where applicable. Contain spillages with sand, earth or any suitable absorbent material. Earth may be shovelled to contain spillage and to avoid contamination of sewers and watercourses.

SECTION 7: HANDLING AND STORAGE

Handling: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep only in original packaging. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. Wash hands and exposed skin thoroughly after handling.
 Storage: Store in a well ventilated area. Protect from sunlight. Store separately.
 Specific end use(s):
 A concrete repair powder blend for use with Polycote repair resins.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Limits:

Substance	CAS No	LTEL (8 hr TWA ppm)	LTEL (8hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)
Dibenzoyl peroxide	94-36-0	–	5	–	–
Barium sulphate inhalable dust	7727-43-7	–	10	–	–
Barium sulphate respirable dust	7727-43-7	–	4	–	–

Appropriate engineering

controls: Provide adequate ventilation, including appropriate local extraction. A washing facility/water for eye and skin cleaning purposes should be present.

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SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION – Cont.

Eye protection: Wear eye protection with side protection (EN166).
 Skin protection: Wear protective clothing and gloves: Impervious gloves (EN 374).
 Respiratory protection: Where engineering controls are not fitted or inadequate, wear suitable respiratory protective equipment. A suitable dust mask or dust respirator with filter type P (EN143 or EN405) may be appropriate.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance: Solid
 Colour: Off White (unless pigmented)
 Odour: Faint
 Melting/freezing point: Not applicable
 Flammability (solid, gas) Not applicable
 Density (g/ml): Not known
 Relative density: Not known
 Solubility (water) Not soluble
 (other) Not known
 Oxidising properties: Not known

SECTION 10: STABILITY AND REACTIVITY

Reactivity: None anticipated.
 Chemical stability: Stable under normal conditions.
 Hazardous reactions: No hazardous reactions known if used for its intended purpose.
 Conditions to avoid: Keep away from heat and direct sunlight.
 Materials to avoid: Not known.
 Haz. decomp. products: No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological effects:
 Acute toxicity – Ingestion: Low acute toxicity.
 Acute toxicity – Skin Contact: Low acute toxicity.
 Acute toxicity – Inhalation: Low acute toxicity.
 Skin corrosion/irritation: Non-irritant.
 Serious eye damage/irritation: Self classification: causes serious eye irritation.
 Skin sensitization data: Not classified.
 Respiratory sensitization data: Not classified.
 Germ cell mutagenicity: There is no evidence of mutagenic potential.
 Carcinogenicity: No evidence of carcinogenicity.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity – Very toxic to aquatic life.
 Toxicity – Aquatic invertebrates: Not known
 Toxicity – fish: Not known.
 Toxicity – Algae: Not known
 Persistence and Degradation: Not known
 Bioaccumulative potential: Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods:
 Dispose of contents in accordance with local, state or national legislation. Send to a licensed recycler, reclaimer or incinerator. Dispose of this material and its container to hazardous or special waste collection point. Normal disposal is via incineration operated by an accredited disposal contractor. Dispose at suitable refuse site.

SECTION 14: TRANSPORT INFORMATION

UN Number: UN 3077
 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID. N.O.S.

ADR/RID
 Classification: 9
 Classification Code: M7
 Special provisions: 274 335 601
 Limited Quantities: 5 kg
 Excepted Quantities: E1
 Emergency Action Code: Z2
 Mixed Packing Instructions for Packages: P002 IBC08 LP02 R001
 Special Packing Provisions for Packages: PP12 B3
 Mixed Packing Instructions for Packages: MP10
 Packing Instructions for Portable tanks: T1 BK1 BK2
 Special Provisions for Portable tanks: TP33
 Tank Code for Tanks: SGAV LGBV
 Vehicle for Tank Carriage: AT
 ADR Transport Category: 3
 Tunnel Restriction Code: E
 Special Provisions for Carriage - Packages: V13
 Special Provisions for Carriage – Bulk: VV1
 Special Provisions for Carriage - Loading, Unloading and Handling: CV13
 Special Provisions for Carriage - Operation: Not applicable
 ADR HIN: 90

IMDG
 Classification: 9
 Special provisions: 274 335 601
 Limited Quantities: 5 kg
 Excepted Quantities: E1
 Mixed Packing Instructions for Packages: P002 IBC08 LP02 R001
 Special Packing Provisions for Packages: PP12 B3
 Packing Instructions for Portable tanks: T1 BK1 BK2

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SECTION 14: TRANSPORT INFORMATION – Cont.

Special Provisions for Portable tanks:	TP33
IMDG EMS:	Not applicable
Stowage and Handling:	Not applicable
ICAO/IATA	
Excepted Quantities:	E1
Passenger and Cargo Aircraft Limited Quantities Packing Instructions:	Y956
Passenger and Cargo Aircraft Limited Quantities Max net Qty:	30 kg
Packing Instructions:	956
Passenger and Cargo Aircraft Max net Qty:	400 kg
Cargo Aircraft Packing Instructions:	956
Cargo Aircraft Max net qty:	400 kg
Special Provisions:	A97, A158, A179, A197
Emergency Response Guidebook (ERG) Code:	9L
Labels:	9
Packing Group:	III
Environmental Hazard:	Classified as a Marine Pollutant

SECTION 15: REGULATORY INFORMATION**Chemical Safety Assessment**

A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

Hazard classification:	Eye irrit. 2: Serious eye damage/irritation, Category 2. Org. Perox. B: Organic peroxide, Category B. Skin Sens. 1: Skin sensitization, Category 1.
Hazard Statements:	H241: Heating may cause a fire or explosion. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H400: Very toxic to aquatic life.
Precautionary Statements:	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P234: Keep only in original packaging. P235: Keep cool. P240: Ground and bond container and receiving equipment. P264: Wash hands and exposed skin thoroughly after handling. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing 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. P337+P313: If eye irritation persists: Get medical advice/attention. P370+P380+P375+P378: In case of fire: Evacuate area. Fight fire remotely to the risk of explosion. P391: Collect spillage. P403: Store in a well-ventilated place. P410: Protect from sunlight. P420: Store separately.

The Safety Data above is applicable to the product only as used according to the purposes and methods described on the relevant Technical Data Sheet, available from Polycote UK on request.

The information above is based on our present knowledge and is believed to be correct but does not purport to be all inclusive and should only be used as a guide. No warranty is implied with respect to the specification of the product. It is intended to describe the product solely in terms of its safety requirements and relates only to the specific material designed and may not be valid for such material used in combination with any other materials or in any process. This data does not constitute the users own assessment of workplace risk as required by other Health and Safety legislation, nor is it a sales specification or indication of suitability for any particular use. The user must satisfy himself as to the suitability of the product for his purpose. No legally valid contractual relationship is established by the above data, and Polycote UK shall not be held liable for any damage resulting from handling or from contact with the above product.

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MATERIAL SAFETY DATA SHEET

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Cretex MC – BPO (Hardener)



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY

Product Name: **CRETEx MC STANDARD – BPO (HARDENER)**
 Company Name: Polycote UK
 Centre Point • Wolseley Road
 Woburn Road Industrial Estate
 Kempston • Beds MK42 7EF
 Telephone Number: 01234 846400

SECTION 2: HAZARDS IDENTIFICATION

Regulation (EC) No. 1272/2008 (CLP):

Aquatic Acute 1: Very toxic to aquatic life.
 Eye Irrit. 2: Causes serious eye irritation.
 Org. Perox. B: Heating may cause a fire or explosion.
 Skin Sens. 1: May cause an allergic skin reaction.

Hazard pictograms:



Signal word: Danger

Hazard statements: H241: Heating may cause a fire or explosion.
 H317: May cause an allergic skin reaction.
 H319: Causes serious eye irritation.
 H400: Very toxic to aquatic life.

Precautionary statements:

None.

Additional information:

For full text of Hazard/Precautionary statements see section 16.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name:

CAS No:	EC No.	Classification
dibenzoyl peroxide benzoyl peroxide		
94-36-0	202-327-6	Org. Perox. B H241; Skin Sens. 1 H317; Eye Irrit. 2 H319

SECTION 4: FIRST AID MEASURES

Inhalation: Treat symptomatically.
 Skin contact: Take off immediately all contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention/ Specific treatment (see Medical Advice on this label).
 Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
 Ingestion: Treat symptomatically.
Most important symptoms and effects, both acute and delayed
 May cause irritation. Allergic contact dermatitis.
 Immediate / special treatment:
 Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used.
 Unsuitable media: None.
 Exposure hazards: Heating may cause a fire or explosion. Explosion risk.
 Advice for firefighters: Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Provide adequate ventilation. Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems. Wear suitable protective clothing, gloves and eye/face protection.
 Environmental precautions: Avoid release to the environment. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.
 Methods for cleaning up: Sweep up spilled substance and remove to a safe place. Use vacuum equipment for collecting spilt materials, where applicable. Contain spillages with sand, earth or any suitable absorbent material. Earth may be shovelled to contain spillage and to avoid contamination of sewers and watercourses.

SECTION 7: HANDLING AND STORAGE

Handling: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep only in original packaging. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. Wash hands and exposed skin thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapours/spray.
 Storage: Store in a well ventilated area. Protect from sunlight. Store separately.
 Specific end use(s):
 A BPO Hardener powder for use with Polycote repair resins and powder systems.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Limits:

Substance	CAS No	LTEL (8 hr TWA ppm)	LTEL (8hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)
Dibenzoyl peroxide	94-36-0	-	5	-	-

Appropriate engineering controls:

Provide adequate ventilation, including appropriate local extraction. A washing facility/water for eye and skin cleaning purposes should be present.

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SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION – Cont.

Eye protection: Wear eye protection with side protection (EN166).
 Skin protection: Wear protective clothing and gloves: Impervious gloves (EN 374).
 Respiratory protection: Where engineering controls are not fitted or inadequate, wear suitable respiratory protective equipment. A suitable dust mask or dust respirator with filter type P (EN143 or EN405) may be appropriate.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance: Solid
 Colour: White
 Odour: Faint
 Melting/freezing point: Decomposes before melting
 Flammability (solid, gas) Decomposition products may be flammable
 Density (g/ml): 540 kg/m³ at 20°C
 Relative density: 1.895 at 20°C
 Solubility (water) At 20°C insoluble
 (other) Not known
 Decomp Temp. (°C): SADT -60°C (Self accelerating decomposition temperature) is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the SADT. Contact with incompatible substances can cause decomposition below the SADT.
 Oxidising properties: Not classified as oxidising
 Haz. decomp products: Calcium oxide, Phosphorus oxides, Benzoic acid.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: None anticipated.
 Chemical stability: Stable under normal conditions.
 Hazardous reactions: No hazardous reactions known if used for its intended purpose.
 Conditions to avoid: Keep away from heat and direct sunlight.
 Materials to avoid: Not known.
 Haz. decomp. products: No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological effects:
 Acute toxicity – Ingestion:
 LD50: >5,000 mg/kg. Species: Rat.
 Acute toxicity – Skin Contact:
 Slightly irritation.
 Acute toxicity – Inhalation:
 LC50 (Rat): >24.3 mg/l. Exposure time: 4h. Test atmosphere: vapour. Assessment: The substance or mixture has no acute inhalation toxicity. May cause irritation of the mucous membranes.
 Skin corrosion/irritation:
 Product dust may be irritating to skin. May cause an allergic skin reaction. May cause skin irritation.

Serious eye damage/irritation:
 Causes serious eye irritation.
 Skin sensitization data:
 May cause an allergic skin reaction.
 Respiratory sensitization data:
 Thermal decomposition can lead to release of irritating gases and vapours. Product dust may be irritating to the respiratory system.
 Germ cell mutagenicity:
 Not mutagenic.
 Carcinogenicity:
 Not carcinogenic.
 Reproductive toxicity:
 No toxicity to reproduction. Species: Rat, male. Application Route: Oral. General Toxicity – Parent: No observed adverse effect level: 1,000 mg/kg bw/day. Method: OECD Test Guideline 422. Species: Rat, females. Application Route: Oral. General Toxicity – Parent: No observed adverse effect level: 500 mg/kg bw/day. Method: OECD Test Guideline 422.
 STOT – single exposure:
 Exposure routes: Ingestion. The substance or mixture is not classified as specific target organ toxicant, single exposure.
 STOT – repeated exposure: Exposure routes: Ingestion. The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity – Very toxic to aquatic life.
 Toxicity – Aquatic invertebrates:
 EC50: 0.11 mg/l. Exposure time: 48h. Species: Daphnia magna (water flea).
 Toxicity – fish:
 LC50: 0.06 mg/l/ Exposure time: 96h.
 Toxicity – Algae:
 EC50: 0.06 mg/l. Exposure time: 72h. Species: algae.
 Toxicity – Sediment Compartment:
 EC50: 35 mg/l. Species: Bacteria.
 Persistence and Degradation:
 Inherently biodegradable
 Bioaccumulative potential:
 Bioconcentration factor (BCF): 66.6
 Results of PBT and vPvB assessment:
 Not classified as PBT or vPvB.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods:
 Dispose of contents in accordance with local, state or national legislation. Send to a licensed recycler, reclaimer or incinerator. Dispose of this material and its container to hazardous or special waste collection point. Normal disposal is via incineration operated by an accredited disposal contractor. Dispose at suitable refuse site.

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SECTION 14: TRANSPORT INFORMATION

UN Number: UN 3077
 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID. N.O.S.

ADR/RID
 Classification: 9
 Classification Code: M7
 Special provisions: 274 335 601
 Limited Quantities: 5 kg
 Excepted Quantities: E1
 Emergency Action Code: 2Z
 Mixed Packing Instructions for Packages: P002 IBC08 LP02 R001
 Special Packing Provisions for Packages: PP12 B3
 Mixed Packing Instructions for Packages: MP10
 Packing Instructions for Portable tanks: T1 BK1 BK2
 Special Provisions for Portable tanks: TP33
 Tank Code for Tanks: SGAV LGBV
 Vehicle for Tank Carriage: AT
 ADR Transport Category: 3
 Tunnel Restriction Code: E
 Special Provisions for Carriage - Packages: V13
 Special Provisions for Carriage – Bulk: VV1
 Special Provisions for Carriage - Loading, Unloading and Handling: CV13
 Special Provisions for Carriage - Operation: Not applicable
 ADR HIN: 90

IMDG
 Classification: 9
 Special provisions: 274 335 601
 Limited Quantities: 5 kg
 Excepted Quantities: E1
 Mixed Packing Instructions for Packages: P002 IBC08 LP02 R001
 Special Packing Provisions for Packages: PP12 B3
 Packing Instructions for Portable tanks: T1 BK1 BK2
 Special Provisions for Portable tanks: TP33
 IMDG EMS: Not applicable
 Stowage and Handling: Not applicable

ICAO/IATA
 Excepted Quantities: E1
 Passenger and Cargo Aircraft Limited Quantities Packing Instructions: Y956
 Passenger and Cargo Aircraft Limited Quantities Max net Qty: 30 kg
 Passenger and Cargo Aircraft Packing Instructions: 956
 Passenger and Cargo Aircraft Max net Qty: 400 kg
 Cargo Aircraft Packing Instructions: 956
 Cargo Aircraft Max net qty: 400 kg
 Special Provisions: A97, A158, A179, A197
 Emergency Response Guidebook (ERG) Code: 9L
 Labels: 9
 Packing Group: III
 Environmental Hazard: Classified as a Marine Pollutant

SECTION 15: REGULATORY INFORMATION**Chemical Safety Assessment**

A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

Hazard classification:
 Eye irrit. 2: Serious eye damage/irritation, Category 2.
 Org. Perox. B: Organic peroxide, Category B.
 Skin Sens. 1: Skin sensitization, Category 1.

Hazard Statements:
 H241: Heating may cause a fire or explosion.
 H317: May cause an allergic skin reaction.
 H319: Causes serious eye irritation.
 H400: Very toxic to aquatic life.

Precautionary Statements:
 P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P234: Keep only in original packaging.
 P235: Keep cool.
 P240: Ground and bond container and receiving equipment.
 P240: Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264: Wash hands and exposed skin thoroughly after handling.
 P272: Contaminated work clothing should not be allowed out of the workplace.
 P273: Avoid release to the environment.
 P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing 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.
 P337+P313: If eye irritation persists: Get medical advice/attention.
 P362+P364: Take off contaminated clothing and wash it before reuse.
 P370+P380+P375+P378: In case of fire: Evacuate area. Fight fire remotely to the risk of explosion.
 P391: Collect spillage.
 P403: Store in a well-ventilated place.
 P410: Protect from sunlight.
 P420: Store separately.

The Safety Data above is applicable to the product only as used according to the purposes and methods described on the relevant Technical Data Sheet, available from Polycote UK on request.

The information above is based on our present knowledge and is believed to be correct but does not purport to be all inclusive and should only be used as a guide. No warranty is implied with respect to the specification of the product. It is intended to describe the product solely in terms of its safety requirements and relates only to the specific material designed and may not be valid for such material used in combination with any other materials or in any process. This data does not constitute the users own assessment of workplace risk as required by other Health and Safety legislation, nor is it a sales specification or indication of suitability for any particular use. The user must satisfy himself as to the suitability of the product for his purpose. No legally valid contractual relationship is established by the above data, and Polycote UK shall not be held liable for any damage resulting from handling or from contact with the above product.

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