

MATERIAL SAFETY DATA SHEET

110 1600

Cretex MC CSG – Resin



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

Product Name: **CRETEX MC CSG – 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):

Acute Tox 2. Fatal if inhaled. **Acute Tox 3.** Toxic in contact with skin. Toxic if swallowed. **Aquatic Acute 1.** Very toxic to aquatic life. **Aquatic Chronic 1.** Very toxic to aquatic life with long lasting effects. **Carc 1B.** May cause cancer. **Flam Liq 2.** Highly flammable liquid and vapour. **Skin Irrit 2.** Causes skin irritation. **Skin Sens 1B.** May cause an allergic skin reaction. **STOT RE 2.** May cause damage to organs through prolonged or repeated exposure. **STOT SE 3.** May cause respiratory irritation.

Hazard pictograms:



Signal word: **Danger**

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.
 H335: May cause respiratory irritation.
 H350: May cause cancer.
 H373: May cause damage to organs through prolonged or repeated exposure.
 H410: Very toxic to aquatic life with long lasting effects.

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	Aquatic Chronic 3 H412

SECTION 4: FIRST AID MEASURES

Inhalation: Specific treatment is urgent (see Medical Advice on this label). Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTRE/doctor.

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: Rinse mouth. Specific treatment (see Medical advice on this label). Immediately call a POISON CENTRE/doctor.

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: Avoid release to the environment. 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. 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 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. Do not eat, drink or smoke when using this product. 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 in cold temperatures.

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

Name	CAS No	LTEL (8 hr TWA ppm)	LTEL (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: A suitable mask with filter type A (EN14387 or EN405) may be appropriate.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Liquid
Colour:	Bluish
Odour:	Ester-like
Boiling point:	ca.100°C (1,013 hPa)
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:	<10 mPa·s (23°C) Brookfield
Density (g/ml):	0.94 g/cm ³ (20°C)
Solubility(ies):	Solubility (Water) ca. 16 g/l (20°C) Solubility (Other) soluble in ethyl acetate
Ignition temp:	430°C Method: DIN 51794 (methyl methacrylate)
Conditions to avoid:	The product is normally supplied in a stabilised form. If the permissible storage period and/or storage temperature is exceeded, the product may polymerize with heat evolution. Ultraviolet light. Keep away from heat and sources of ignition.
Incompatible materials:	Free radical initiators. Reducing agents. Tertiary amines. Heavy metals, peroxides. Oxidizing agents. Mineral acids.

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:**

Self classification: Toxic if swallowed.

LD50 Species: Rat. Dose: >5,000 mg/kg Method: OECD 401. Related to substance: methyl methacrylate.

Acute toxicity – Skin Contact:

Self classification: Toxic in contact with skin.

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

Acute toxicity – Inhalation:

Self classification: Fatal if inhaled.

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.

Properties of components in summary: Related to substance: product irritating.

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:

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.

Germ cell mutagenicity:

There is no evidence of mutagenic potential.

Carcinogenicity:

Self classification: May cause cancer.

Presumed to have carcinogenic potential for humans. Crinogen Category 1B (UN-GHS). Related to substance: N,N-dimethyl-p-toluidine.

STOT – single exposure:

Self classification: May cause respiratory irritation.

STOT – repeated exposure:

Self classification: May cause damage to organs through prolonged or 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: Very toxic to aquatic life with long lasting effects.

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.

Toxicity – Algae:

Species: Scenedesmus quadricauda. Exposure duration: 8 d EC3: 30 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.

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SECTION 12: ECOLOGICAL INFORMATION – Cont.

Toxicity – Sediment Compartment.

Species: *Pseudomonas putida* NOEC: 100 mg/l. Related to substance: methyl methacrylate.

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).

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, reclaimer 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: Classified as a Marine Pollutant

SECTION 15: REGULATORY INFORMATION

No information available.

SECTION 16: OTHER INFORMATION

Hazard Classification:

Acute Tox. 3: Acute toxicity, Category 3.
Aquatic Chronic 3: Hazardous to the aquatic environment, Chronic, Category 3.
Flam. Liq. 2: Flammable Liquid, Category 2.
STOT RE 2; Specific target organ toxicity – repeated exposure, Category 2.
STOT SE 3 H335: Specific target organ toxicity – single exposure, Category 3.
Skin Irrit. 2: Skin corrosion/irritation, Category 2.
Skin Sens. 1: Skin sensitization, Category 1B.

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.
H410 Very toxic to aquatic life with long lasting effects.
H412: Harmful to aquatic life with long lasting effects.

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.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P264: Wash hands and exposed skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P272: Contaminated work clothing should not be allowed out of the workplace.

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SECTION 16: OTHER INFORMATION – Cont.

P273: Avoid release to the environment.
 P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
 P302+P310: IF SWALLOWED: Immediately call a POISON CENTRE/doctor.
 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.
 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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