

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

1.1 Product identifier

Product Name: MC Primer DPM (Resin) Part A

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

Identified uses: Resin component for MC Primer DPM

Uses advised against: None known

1.3 Details of the supplier of the safety data sheet

Company Name: Polycote UK LLP
Centre Point
Wolseley Road
Woburn Road Industrial Estate
Kempston
Beds
MK42 7EF
01234 846400
Telephone Number: 01234 846400
Emergency Contact Number: 111 (NHS England)
Email address: uksales@polycote.com

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

Regulation (EC) No 1272/2008:

Eye Irrit. 2: Causes serious eye irritation.
Flam. Liq. 2: Highly flammable liquid and vapour.
Skin Irrit. 2: Causes skin irritation.
Skin Sens. 1: May cause an allergic skin reaction.
STOT SE 3: May cause respiratory irritation.

2.2 Label elements

According to Regulation (EC) No 1272/2008 (CLP):

Signal word(s):

Danger

Hazard pictograms:



Hazard statements:

H225: Highly flammable liquid and vapour.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.

Precautionary statements:

None

2.3 Other hazards:




None known

2.4 Additional Information:

For full text of H/P Statements see section 16.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance:

Hazardous Ingredient(s)	CAS No.	EC No. / REACH Registration No.	%WW	Hazard Statement(s)	Hazard Pictogram(s)
methyl methacrylate methyl 2-methylprop-2-enoate methyl 2-methylpropenoate	80-62-6	201-297-1 01-2119452498-28	0.00	Flam. Liq. 2: H225 Skin Irrit. 2: H315 Skin Sens. 1: H317 STOT SE 3: H335	
2-hydroxyethyl methacrylate	868-77-9	212-782-2 01-2119490169-29	0.00	Skin Irrit. 2: H315	
tetramethylene dimethacrylate	2082-81-7	218-218-1 01-2119967415-30	0.00	Skin Sens. 1B: H317	
2-(N-methyl-p-toluidino)ethanol	2842-44-6	220-638-5	0.00	Not classified	

3.2 Mixture:

Non-applicable

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

Inhalation:

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/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. Specific treatment (see Medical Advice on this label). Rinse skin with water.

SECTION 4: FIRST AID MEASURES (continued)

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.
4.2 Most important symptoms and effects, both acute and delayed: Causes burns. Allergic contact dermatitis.	
4.3 Indication of any immediate medical attention and special treatment needed: Specific treatment (see Medical Advice on this label). Call A POISON CENTRE/doctor if you feel unwell. Treat symptomatically.	

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media	
Suitable extinguishing media:	Use to extinguish.
Unsuitable extinguishing media:	Water jet spray.
5.2 Special hazards arising from the substance or mixture:	Highly flammable liquid and vapour. May decompose in a fire, giving off toxic and irritant vapours.
5.3 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

6.1 Personal precautions, protective equipment and emergency procedures:	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.
6.2 Environmental precautions:	Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.
6.3 Methods and material for containment and cleaning up:	Absorb spillages into sand, earth or any suitable absorbent material. Use vacuum equipment for collecting spilt materials, where practicable. Containers must not be punctured or destroyed by burning, even when empty.
6.4 Reference to other sections:	See also section 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe 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.
7.2 Conditions for safe storage, including any incompatibilities:	Store in a well-ventilated area. Keep cool. Keep container tightly closed. Store locked-up.
Storage temperature:	Ambient
Storage life:	Stable under normal conditions
Incompatible materials	None known
7.3 Specific end use(s)	Resin component of the two-pack floor primer.


SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters:****8.1.1 Occupational Exposure Limits:**

Occupational Exposure Limits:						
Substance	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Methyl methacrylate	80-62-6	50	208	100	416	
Region	Source					
Europe	EU Occupational Exposure Limits					
United Kingdom	Workplace Exposure Limits (WEL)					
Remark	Notes					




8.2 Exposure controls:**8.2.1. 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.

8.2.2. Personal protection equipment:

PPE	Remarks
 Eye Protection	Wear eye protection with side protection (EN166).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

PPE	Remarks
 Skin Protection	Wear protective clothing and gloves: Impervious gloves (EN 374).
 Respiratory Protection	Normally no personal respiratory protection is necessary.
 Thermal hazards	None known

8.2.3 Environmental Exposure Controls: Avoid release to the environment

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties:**

Appearance:	Liquid
Colour:	Colourless, slightly turbid
Odour:	Ester like
Odour threshold:	Not known
pH:	Not known
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	ca. 100°C Remarks: (methyl methacrylate)
Flash point:	10°C Remarks: (methyl methacrylate)
Evaporation rate:	Not known
Flammability (solid, gas)	Not known
Upper/lower flammability or explosive limits:	2.1%(V) Remarks: at 10.5°C (MMA) 12.5% (V) Remarks: (methyl methacrylate)
Vapour pressure:	ca. 40 hPa (20°C) Remarks: (methyl methacrylate)
Vapour density:	>1 (20°C)
Density (g/ml):	1.03g/cm ³ (23°C)
Relative density:	No data available
Solubility(ies)	Solubility (Water): no data available Solubility (Other): no data available
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	Not spontaneously flammable in air at ambient temperature (not pyrophoric)
Decomposition temperature (°C):	No decomposition if used as directed
Viscosity:	ca. 250 mPa.s
Explosive properties:	No data available
Oxidising properties:	No data available

9.2 Other information

Impact Sensitivity	Not impact sensitive
Minimum Ignition Temperature (°C):	No data available
Sublimation:	No data available
Possibility of hazardous reactions:	Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions. Vigorous polymerization is possible when heated/exposed to heat.
Conditions to avoid:	Avoid high temperatures and sources of ignition. Ultraviolet light. The product is normally supplied in a stabilized form. If permissible storage period and/or storage temperature is exceeded, the product may polymerize with heat evolution.
Incompatible materials:	Peroxides, amines, sulfur compounds, heavy metal ions, alkalis, reducing agents and oxidizing agents
Flammability:	Result: Static-accumulating flammable liquid

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:	None anticipated
10.2 Chemical stability:	Stable under normal conditions
10.3 Possibility of hazardous reactions:	No hazardous reactions known if used for its intended purpose
10.4 Conditions to avoid:	Avoid friction, sparks or other means of ignition
10.5 Incompatible materials:	Not known
10.6 Hazardous decomposition products:	No hazardous decomposition products known

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects:**

Acute toxicity - Ingestion:	Acute toxicity estimate Dose: > 2,000 mg/kg Method: Calculation method
------------------------------------	--

SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Acute toxicity - Skin Contact:	Low acute toxicity
Acute toxicity - Inhalation:	Low acute toxicity
Skin corrosion/irritation:	Causes skin irritation. Result: irritating Remarks: Properties of components in summary. Related to substance: product
Serious eye damage/irritation:	Causes serious eye irritation. Remarks: Contact with the eyes may cause irritation. Properties of components in summary. Related to substance: product
Skin sensitization data:	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 observed (symptoms: headache, eye irritations, skin affections). Related to substance: methyl methacrylate.
Germ cell mutagenicity:	Contains no ingredient listed as mutagen
Carcinogenicity:	Contains no ingredient listed as a carcinogen
Reproductive toxicity:	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 NOAEL 25 ppm NOAEL 2000 ppm
Lactation:	Not classified
STOT – single exposure:	May cause respiratory irritation
STOT – repeated exposure:	Not classified
Aspiration hazard:	No aspiration toxicity classification
11.2 Other information:	Not known

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:	
Toxicity - Aquatic invertebrates:	Species: Daphnia magna. Exposure duration: 48h EC50: 69 mg/l Method: OECD 202, flow through. Related to substance: methyl methacrylate.
Toxicity - Fish:	Species: Oncorhynchus mykiss, rainbow trout. Exposure duration: 96h LC50: >79 mg/l Method: OECD 203, flow through GLP. Related to substance: methyl methacrylate.
Toxicity - Algae:	Species: Scenedesmus quadricauda, Exposure duration: 8d EC3: 37 mg/l Method: cell multiplication inhibition test Related to substance: methyl methacrylate.
Toxicity - Sediment Compartment:	Not classified
Toxicity - Terrestrial Compartment:	Not classified
12.2 Persistence and Degradation:	Result: biodegradable Remarks: (monomer constituent)
12.3 Bioaccumulative potential:	No evidence for hazardous properties
12.4 Mobility in soil:	No specific test data available
12.5 Results of PBT and vPvB assessment:	PBT: no vPvB: no
12.6 Other adverse effects:	Not known

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 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 or incinerator.


13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number:	1866
14.2 UN proper shipping name:	RESIN SOLUTION, flammable (vapour pressure at 50°C more than 110 kPa)
14.3 Transport Hazard Class(es):	
ABR/RID	
ADR/RID Class	3
ADR Classification Code	F1
Special Provisions	640D
Limited Quantities	5 L
Excepted Quantities	E2
Emergency Action Code	•3YE
Mixed Packing Instructions for Packages:	P001 IBC02 R001
Special Packing Provisions for Packages:	PP1
Mixed Packing Instructions for Packages:	MP19
Packing Instructions for Portable tanks:	T4

SECTION 14: TRANSPORT INFORMATION (continued)

Special Provisions for Portable tanks:	TP1 TP8
Tank Code for Tanks:	LGBF
Special Provisions for tanks Vehicle for Tank Carriage:	Not applicable
Vehicle for Tank Carriage:	FL
ADR Transport Category:	2
Tunnel Restriction Code:	D/E
Special Provisions for Carriage - Packages:	Not applicable
Special Provisions for Carriage - Bulk:	Not applicable
Special Provisions for Carriage - Loading, Unloading and Handling:	Not applicable
Special Provisions for Carriage - Operation:	S2 S20
ADR HIN	33
IMDG	
IMDG Class	3
Special Provisions	640D
Limited Quantities	5 L
Excepted Quantities	E2
Mixed Packing Instructions for Packages:	P001 IBC02 R001
Special Packing Provisions for Packages:	PP1
Packing Instructions for Portable tanks:	T4
Special Provisions for Portable tanks:	TP1 TP8
IMDG EMS:	F-E
Stowage and Handling:	B
Segregation	Not determined
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
Special Provisions	Not applicable
Emergency Response Guidebook (ERG) Code:	3L
Labels	3
	
14.4 Packing group:	II
14.5 Environmental hazards:	Not classified as a Marine Pollutant
14.6 Special precautions for user	Not known
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:	No information available

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:****European Regulations - Authorisations and/or Restrictions On Use:**

Candidate List of Substances of Very High Concern for Authorisation:	Not listed
REACH: ANNEX XIV list of substances subject to authorisation:	Not listed
REACH: ANNEX XVII Restrictions on manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:	methyl methacrylate methyl 2-methylprop-2-enoate methyl 2-methylpropenoate (80-62-6)
Community Rolling Action Plan (CoRAP):	Methyl methacrylate (80-62-6), 2-hydroxyethyl methacrylate (868-77-9)
Regulation (EC) No 850/2004 of the European Parliament and of the Council on persistent organic pollutants:	Not listed
Regulation (EC) No 2037/2000 on substances that deplete the ozone layer:	Not listed
Regulation (EU) No 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals:	Not listed
National regulations	
Other:	Not known

SECTION 15: REGULATORY INFORMATION (continued)**15.2 Chemical Safety Assessment:**

A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION**Hazard pictograms:**

GHS02



GHS07

Hazard classification:

Eye Irrit. 2: Serious eye damage/irritation, Category 2
 Flam. Liq. 2: Flammable liquid, Category 2
 STOT SE 3_H335: Specific target organ toxicity – single exposure, Category 3
 STOT Irrit. 2: Skin corrosion/irritation, Category 2
 Skin Sens. 1: Skin sensitization, Category 1
 Skin Sens. 1B: Skin sensitization, Category 1B

Hazard Statements:

H225: Highly flammable liquid and vapour.
 H315: Causes skin irritation.
 H317: May cause an allergic skin reaction.
 H319: Causes serious eye irritation.
 H335: May cause respiratory irritation.

Precautionary Statements:

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 protection/face protection/hearing protection.
 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.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P312: Call a POISON CENTRE/doctor if you feel unwell.
 P321: Specific treatment (see Medical Advice on this label).
 P332+P313: If skin irritation occurs: Get medical advice/attention.
 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+P378: In case of fire: Use to extinguish
 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.
 P501: Dispose of contents in accordance with local, state or national legislation.

Passenger aircraft/rail:

ADN: European Agreement concerning the international carriage of dangerous goods by inland waterways
 ADR: European Agreement concerning the international carriage of dangerous goods by road
 CAS: Chemical Abstracts Service
 CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
 DNEL: Derived No Effect Level
 EC: European Community
 EINECS: European Inventory of Existing Commercial Chemical Substances
 IATA: International Air Transport Association
 IBC: Intermediate Bulk Container
 ICAO: International Civil Aviation Organisation
 IMDG: International maritime dangerous goods code
 LTEL: Long term exposure limit
 PBT: Persistent, Bioaccumulative and Toxic
 PNEC: Predicted No Effect Concentration
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
 RID: Regulations concerning the international carriage of dangerous goods by rail
 STEL: Short term exposure limit
 STOT: Specific Target Organ Toxicity
 UN: United Nations
 vPvB: very Persistent and very Bioaccumulative

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.

Created: 18/07/2024

Version 1

Polycote UK LLP
01234 846400 | uksales@polycote.com | www.polycote.com

Page 7 of 7

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

1.1 Product identifier

Product Name: MC Primer DPM – Hardener Powder Part B

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

Identified uses: Curing agent for Polycote resin and powder systems

Uses advised against: None known

1.3 Details of the supplier of the safety data sheet

Company Name: Polycote UK LLP
Centre Point
Wolseley Road
Woburn Road Industrial Estate
Kempston
Beds
MK42 7EF
Telephone Number: 01234 846400
Emergency Contact Number: 111 (NHS England)
Email address: uksales@polycote.com

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

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.

2.2 Label elements

Signal word(s):

Hazard pictograms:

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

2.3 Other hazards:


None known

2.4 Additional Information:

For full text of H/P Statements see section 16.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance:

Hazardous Ingredient(s)	CAS No.	EC No. / REACH Registration No.	% W/W	Hazard Statement(s)	Hazard Pictogram(s)
dibenzoyl peroxide benzoyl peroxide	94-36-0	202-327-6 01-2119511472-50	0.00	Org. Perox. B H241; Skin Sens. 1 H317; Eye Irrit. 2 H319	

3.2 Mixture:

Non-applicable

SECTION 4: FIRST AID MEASURES

4.1 Description of 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.

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

May cause irritation. Allergic contact dermatitis.

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

Specific treatment (see Medical Advice on this label). Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES	
5.1 Extinguishing media	
Suitable extinguishing media:	Use to extinguish.
Unsuitable extinguishing media:	None
5.2 Special hazards arising from the substance or mixture:	Heating may cause a fire or explosion. Explosion risk.
5.3 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	
6.1 Personal precautions, protective equipment and emergency procedures:	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.
6.2 Environmental precautions:	Avoid release to the environment. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.
6.3 Methods and material for containment and cleaning up:	Collect spillage. Sweep up spilled substance and remove to safe place. Use vacuum equipment for collecting spilt materials, where practicable. Contain spillages with sand, earth or any suitable adsorbent material. Earth may be shovelled to contain spillage and to avoid contamination of sewers and watercourses.
6.4 Reference to other sections:	See also section 8, 13.

SECTION 7: HANDLING AND STORAGE	
7.1 Precautions for safe 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.
7.2 Conditions for safe storage, including any Incompatibilities:	Store in a well-ventilated area. Protect from sunlight. Store separately.
Storage temperature:	Store at temperatures not exceeding °C/°F
Storage life:	Stable under normal conditions.
7.3 Specific end use(s)	A BPO Hardener powder for use with Polycote repair resins and powder systems.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

8.1.1 Occupational Exposure Limits:

Occupational Exposure Limits:						
Substance	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Methyl methacrylate	94-36-0		5			

Region	Source
Europe	EU Occupational Exposure Limits
United Kingdom	Workplace Exposure Limits (WEL)




Remark	Notes
--------	-------

8.2 Exposure controls:


8.2.1. Appropriate engineering controls:

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

8.2.2. Personal protection equipment:

PPE	Remarks
 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 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

PPE	Remarks
 Thermal hazards	None known

8.2.3. Environmental Exposure Controls: Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance:	Solid
Colour:	White
Odour:	Faint
Odour threshold:	Not known
pH:	Not known
Melting point/freezing point:	Decomposes before melting
Initial boiling point and boiling range:	Not applicable
Flash point:	Not applicable
Evaporation rate:	Not known
Flammability (solid, gas)	Decomposition products may be flammable
Upper/lower flammability or explosive limits:	No data available
Vapour pressure:	Not known
Vapour density:	Not known
Density (g/ml):	540 kg/m ³ at 20°C
Relative density:	1.895 at 20°C
Solubility(ies)	Solubility (Water): At 20°C insoluble Solubility (Other): No data available
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	Not known
Decomposition temperature (°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.
Viscosity:	Not known
Explosive properties:	Not explosive
Oxidising properties:	Not classified as oxidising. 9.2 Other information Active Oxygen Content: 2.1 - 2.2% Organic peroxides

9.2 Other information

Active Oxygen Content:	2.1 - 2.2 %
Organic peroxides:	32 - 33%
Conditions to avoid:	Do not allow to dry out.
Materials to avoid:	Contact with incompatible materials will result in hazardous decomposition. Do not mix with peroxide accelerators, unless under controlled processing. Use only stainless steel 316, PP, polyethylene or glass-lined equipment. Acids and bases Iron Copper Reducing agents heavy metals rust
Hazardous decomposition products:	Calcium oxide Phosphorous oxides Benzoic acid

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:	None anticipated.
10.2 Chemical stability:	Stable under normal conditions.
10.3 Possibility of hazardous reactions:	No hazardous reactions known if used for its intended purpose.
10.4 Conditions to avoid:	Keep away from heat and direct sunlight.
10.5 Incompatible materials:	Not known.
10.6 Hazardous decomposition products:	No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on 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.

SECTION 11: TOXICOLOGICAL INFORMATION (continued)

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.

Lactation:

Not classified

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.

Aspiration hazard:

No data available

11.2 Other information:

Not known

SECTION 12: ECOLOGICAL INFORMATION

12.1 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.

Toxicity - Terrestrial Compartment:

Not classified

12.2 Persistence and Degradation:

Inherently biodegradable

12.3 Bioaccumulative potential:

Bioconcentration factor (BCF): 66.6

12.4 Mobility in soil:

No information available

12.5 Results of PBT and vPvB assessment:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher: Not classified as PBT or vPvB

12.6 Other adverse effects:

Not known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of contents in accordance with local, state or national legislation. Send to a licensed recycler, reclaimor 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.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

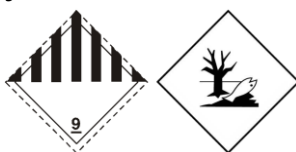
Transport of dangerous goods by land:

With regard to ADR 2021 and RID 2021:

14.1 UN number:	3106
14.2 UN proper shipping name:	ORGANIC PEROXIDE TYPE D, SOLID
14.3 Transport Hazard Class(es):	
ABR/RID	
ADR/RID Class	5.2
ADR Classification Code	P1
Special Provisions	122 274
Limited Quantities	500g
Excepted Quantities	E0
Emergency Action Code	2Z
Mixed Packing Instructions for Packages:	CV15 CV22

SECTION 14: TRANSPORT INFORMATION (continued)

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
Special Provisions for tanks Vehicle for Tank Carriage:	Not applicable
Vehicle for Tank Carriage:	AT
ADR Transport Category:	3
Tunnel Restriction Code:	E
Special Provisions for Carriage - Packages:	V1
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	
IMDG Class	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
Segregation	Not determined
ICAO/IATA	
Excepted Quantities	E1
Passenger and Cargo Aircraft Limited	Y956
Quantities Packing Instructions:	
Passenger and Cargo Aircraft Limited	30Kg
Quantities Max net Qty:	
Passenger and Cargo Aircraft Packing Instructions:	956
Passenger and Cargo Aircraft Max net Qty:	400Kg
Cargo Aircraft Packing Instructions:	956
Cargo Aircraft Max net qty:	400Kg
Special Provisions	A97, A158, A179, A197
Emergency Response Guidebook (ERG) Code:	9L
Labels	9



14.4	Packing group:	III
14.5	Environmental hazards:	Classified as a Marine Pollutant
14.6	Special precautions for user	Not known
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	No information available

SECTION 15: REGULATORY INFORMATION

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

European Regulations - Authorisations and/or Restrictions On Use:

Candidate List of Substances of Very High Concern for Authorisation:	Not listed
REACH: ANNEX XIV list of substances subject to authorisation:	Not listed
REACH: ANNEX XVII Restrictions on manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:	Not listed
Community Rolling Action Plan (CoRAP):	Not listed
Regulation (EC) No 850/2004 of the European Parliament and of the Council on persistent organic pollutants:	Not listed
Regulation (EC) No 2037/2000 on substances that deplete the ozone layer:	Not listed
Regulation (EU) No 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals:	Not listed

SECTION 15: REGULATORY INFORMATION (continued)

National regulations

Other: Not known

15.2 Chemical Safety Assessment:

A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

Hazard pictograms:



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.
P261: 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.
P321: Specific treatment (see Medical Advice on this label).
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 due to the risk of explosion. Use to extinguish.
P391: Collect spillage.
P403: Store in a well-ventilated place.
P410: Protect from sunlight.
P411: Store at temperatures not exceeding °C/°F.
P420: Store separately.
P501: Dispose of contents in accordance with local, state or national legislation.

Passenger aircraft/rail:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS: Chemical Abstracts Service
CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL: Derived No Effect Level
EC: European Community
EINECS: European Inventory of Existing Commercial Chemical Substances
IATA: International Air Transport Association
IBC: Intermediate Bulk Container
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods
LTEL: Long term exposure limit
PBT: Persistent, Bioaccumulative and Toxic
PNEC: Predicted No Effect Concentration
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
STEL: Short term exposure limit
STOT: Specific Target Organ Toxicity
UN: United Nations
vPvB: very Persistent and very Bioaccumulative

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.