

## Material Safety Data Sheet

### 1: Identification of the substance preparation and of the company

**Manufacturer:** Premcrete  
26 Whitehall Road  
Leeds  
West Yorkshire  
LS12 1BE

Tel: +44 (0) 800 6191619

Revision Date: 20/11/2013

**Product Name: Epoprime MMA Base**

### 2: Composition / Information on ingredients

Methacrylate Resin Liquid

Name	EC No	CAS –No	Content	Symbol	R Phrase
Methyl Methacrylate		80-62-6	5-15%	F, Xi	R11 R37/38 R43
2-ethylhexyl acrylate		103-11-7	2-5%	Xi	R37/38 R43
n-butylacrylate		141-32-2	5-15%	Xi	R10 R36/37/38 R43

### 3. Hazard Identification

Highly flammable, and irritating to respiratory system and skin, May cause sensitisation by skin contact.

### 4. First Aid measures

**Skin contact** - Remove contaminated clothing immediately. Rinse affected skin with copious amounts of soap and water. If persistent irritation occurs obtain medical attention.

**Eye contact** - Keep eyelids apart and immediately flush eyes with running water for at least 15 minutes without interruption. Seek medical advice.

**Ingestion** - **DO NOT** induce vomiting. If rapid recovery does not occur obtain medical attention.

**Inhalation** - Move subject to fresh air and keep them calm. Seek medical attention.

### 5. Fire– Fighters Measures

**Extinguishing media** - Dry powder, Carbon Dioxide, Alcohol-resistant foam.

**Exposure hazards** - Carbon Monoxide may be evolved if incomplete combustion occurs.

**Protection of fire-fighters** - Wear full protective clothing and self contained breathing apparatus.



## **Material Safety Data Sheet**

### **6. Accidental Release Measures**

**Personal precautions** - Avoid skin, eye and clothing contact. Provide sufficient ventilation during use.

**Environmental precautions** - Use personal protective clothing.

**Clean-up procedures** - Prevent from entering sewer system, surface water or soil. Prevent from spreading into drains, ditches or rivers by using sand, earth or other appropriate barriers. Soak up with absorbent material e.g. dry sand, vermiculite, and dispose of as instructed. Shovel up and place in a labelled, sealable container for subsequent disposal.

### **7. Handling and storage**

**Handling requirements** - Use in well ventilated areas. Keep containers tightly closed when not in use. Avoid contact with skin, eyes and clothing.

**Storage conditions** - Avoid temperatures below 5°C.

**Suitable packaging** - Store at ambient temperatures. Must only be kept in original packaging.

### **8. Exposure Control / personal protection**

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

**Hand protection** - OES (long term) 50ppm; OES(short term) 100ppm.

**Eye protection** - Protective gloves of PVC or rubber.

**Skin protection** - Mono-goggles. Standard issue work clothes. Safety boots/shoes; chemical resistant.

### **9. Physical and Chemical properties**

<b>State</b>	Liquid
<b>Colour</b>	Colour as indicated on product label
<b>Odour</b>	Sweet ester-like
<b>Solubility in water</b>	Insoluble
<b>Density</b>	1.640 – 1.720 g/cm <sup>3</sup> @20°C. (DIN 51757)
<b>Flash point °C</b>	10°C (DIN 51755)



## Material Safety Data Sheet

### 10. Stability and Reactivity

**Stability** - Stable under normal conditions. Thermal decomposition not applicable under normal conditions.

**Conditions to avoid** - Temperatures above 95°C.

**Materials to avoid** - Radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.

### 11. Toxicological Information

**Ingestion** - LD50 Acute oral toxicity in rats : 4435mg/kg.

**Eye contact** - Eye irritation tested in rabbits : Irritant.

**Skin contact** - Skin irritation tested in rabbits : Irritant.

**Mutagenicity** - Negative Ames test.

**Sensitisation** - In humans various types of allergic reactions have been observed (symptoms: headache, eye irritation, skin affections)

**Carcinogenity** - Non-carcinogenic in inhalation and feeding studies.

**Reprotoxicity/teratogenicity** - No indications of teratogenic effects.

### 12. Ecological Information

**Mobility** - Readily absorbed into soil. Prevent contamination of soil, drains or surface water.

**Other adverse effects** - Readily bio-degradable (Sturm Test); Toxic to aquatic organisms.

### 13. Disposal considerations

Recover or recycle if possible. Otherwise dispose to licensed disposal contractor.



## Material Safety Data Sheet

### 14. Transport Information

**ADR/RID:**

UN No	1866
Packing group	II
Proper shipping name	Resin Solution (containing methyl methacrylate)
ADR class	3
Classification code	5b
Risk no	33

**IMDG/IMO:**

UN No	1866
Packing group	II
Marine pollutant	Y
Class	3
EmS	3-05
Labelling	3

**LATA/ICAO:**

UN No	1866
Packing Group	II
Labelling	3
Class	3

### 15. Regulatory Information

**Hazard symbol -**

- Xi, Irritant. N, Dangerous to the environment.
- F, Highly Flammable

**Risk phrases -**

- R11, Highly Flammable.
- R37/38, Irritation to respiratory system and skin
- R43, May cause sensitization by skin contact.

**Safety phrases -**

- S16, Keep away from sources of ignition – no smoking.
- S24, Avoid contact with skin.
- S37/39, Wear suitable protective clothing, gloves, and eye/face protection.



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 Leeds  
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 LS12 1BE

Tel: +44 (0) 800 6191619

Revision Date: 20/11/2013

**Product Name:** Epoprime MMA Catalyst

### 2: Composition / Information on ingredients

Methacrylate Resin Liquid

Name	EC No	CAS -No	Content	Symbol	R Phrase
Dibenzoyl peroxide	202-327-6	94-36-0	50%	E Xi	R2, R7, R36, R43
Dicyclohexyl phthalate	201-545-9	84-61-7	50%	None	None

### 3. Hazard Identification

May cause fire, and irritating to respiratory system and skin, May cause sensitisation by skin contact.

### 4. First Aid measures

**Skin contact** - Remove contaminated clothing immediately. Rinse affected skin with copious amounts of soap and water. If persistent irritation occurs obtain medical attention.

**Eye contact** - Keep eyelids apart and immediately flush eyes with running water for at least 15 minutes without interruption. Seek medical advice.

**Ingestion** - **DO NOT** induce vomiting. If rapid recovery does not occur obtain medical attention.

**Inhalation** - Move subject to fresh air and keep them calm. Seek medical attention.

### 5. Fire- Fighters Measures

**Extinguishing media** - Dry powder, Carbon Dioxide, Water Spray

**Exposure hazards** - Carbon Monoxide may be evolved if incomplete combustion occurs.

**Protection of fire-fighters** - Wear full protective clothing and self contained breathing apparatus.



## Material Safety Data Sheet

### 6. Accidental Release Measures

**Personal precautions** - Avoid skin, eye and clothing contact. Provide sufficient ventilation during use.

**Environmental precautions** - Use personal protective clothing.

**Clean-up procedures** - Prevent from entering sewer system, surface water or soil. Prevent from spreading into drains, ditches or rivers by using sand, earth or other appropriate barriers. Soak up with absorbent material e.g. dry sand, vermiculite, and dispose of as instructed. Shovel up and place in a labelled, sealable container for subsequent disposal.

### 7. Handling and storage

**Handling requirements** - Use in well ventilated areas. Keep containers tightly closed when not in use. Avoid contact with skin, eyes and clothing.

**Storage conditions** - Avoid temperatures below 5°C.

**Suitable packaging** - Store at ambient temperatures. Must only be kept in original packaging.

### 8. Exposure Control / personal protection

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

**Hand protection** - OES (long term) 50ppm; OES(short term) 100ppm.

**Eye protection** - Protective gloves of PVC or rubber.

**Skin protection** - Mono-goggles. Standard issue work clothes. Safety boots/shoes; chemical resistant.

### 9. Physical and Chemical properties

<b>State</b>	Powder
<b>Colour</b>	White
<b>Odour</b>	Faint
<b>Solubility in water</b>	Insoluble
<b>Density</b>	1.230 g/cm <sup>3</sup> @20°C. (DIN 51757)
<b>Flash point °C</b>	Above the SADT value



## Material Safety Data Sheet

### 10. Stability and Reactivity

**Stability** - A dangerous self acceleration decomposition reaction and under certain circumstances, explosion or fire can be caused by direct contact with incompatible substances or by thermal decomposition at and above 60C

**Conditions to avoid** - Temperatures above 95°C.

**Materials to avoid** - use only stainless steel 316, PVC, polyethylene or glass lined equipment.

### 11. Toxicological Information

**Ingestion** - LD50 Acute oral toxicity in rats : 5000mg/kg.

**Eye contact** - Mildly irritating (5 min exposure)

**Skin contact** - Non-irritating

**Mutagenicity** - Negative

### 12. Ecological Information

**Ecotoxicity:** Fish– acute toxicity 96h-LC50=2.0mg/l (poecilia reticulata)  
Bacteria– Activated sludge respiration inhibition test EC50=35mg/l

**Degradability:** Degradation Biotic– Readily biodegradable (closed bottle test)

### 13. Disposal considerations

Recover or recycle if possible. Otherwise dispose to licensed disposal contractor.



## Material Safety Data Sheet

### 14. Transport Information

**ADR/RID:**

UN No	3106
Packing group	II
Proper shipping name	Organic Peroxide type d Solid
ADR class	5.2
Classification code	
Risk no	30

**IMDG/IMO:**

UN No	3106
Packing group	II
Marine pollutant	N
Class	5.2
EmS	
Labelling	

**LATA/ICAO:**

UN No	1866
Packing Group	II
Labelling	
Class	5.2

### 15. Regulatory Information

**Hazard symbol -**

- Oxidising Irritant

**Risk phrases -**

- R7 May Cause Fire
- R36 Irritation to respiratory system and skin
- R43, May cause sensitization by skin contact.

**Safety phrases -**

- S3/7 Keep container tightly closed in a cool place
- S14 Keep away from reducing agents, acids, alkalis and heavy metal compounds
- S22 Do not breathe dust
- S36/37/39 Wear suitable protective clothing, gloves and eye / face protection
- S50 Do not mix with peroxide accelerators or reducing agents.

