

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Product: RAPID ROOF

Company Name EcoProof LTD
 Prees Green, Shropshire, SY13 2BN, UK
 Tel: 02038 870 353
 www.ecoproof.co.uk

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous 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. HAZARDS IDENTIFICATION

Main Hazards Highly flammable, 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-FIGHTING 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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Avoid skin, eye and clothing contact. Provide sufficient ventilation during use.
Environmental precautions Use personal protective clothing.
 Prevent from entering sewer system, surface water or soil. Prevent from spreading into drains, ditches or rivers by using sand, earth or other appropriate

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Clean-up procedures	barriers Soak up with absorbent material e.g. dry sand, vermiculite, and dispose of as instructed Shovel up and place in a labeled, sealable container for subsequent disposal.
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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. Store at ambient temperatures.
Suitable packaging	Must only be kept in original packaging.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures	Ensure there is sufficient ventilation of the area. OES (long term) 50ppm; OES(short term) 100ppm
Hand protection	Protective gloves of PVC or rubber.
Eye protection	Mono-goggles.
Skin protection	Standard issue work clothes. Safety boots/shoes; chemical resistant.

9. PHYSICAL AND CHEMICAL PROPERTIES

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

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.
Haz. Decompositon	
Products	None when used as directed.

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

MATERIAL SAFETY DATA SHEET

13. DISPOSABLE CONSIDERATIONS

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

14. TRANSPORT INFORMATION

ADR/RID

UN no	1866	ADR Class	3
Packing Group	II	Classification	5b
Proper Shipping Name	Resin Solution (containing methyl methacrylate)	code	
		Risk no	33

IMDG/IMO

UN no	1866	Class	3
Packing Group	II	EmS	3-05
Marine Pollutant	Y	Labelling	3

IATA/ICAO

UN no	1866	Class	3
Packing Group	II	Packing Instruction	
Labelling	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.

16. OTHER INFORMATION

Other information Read in conjunction with the appropriate CATALYST component Material Safety Data Sheet.

Legal disclaimer

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Company Name EcoProof LTD

MATERIAL SAFETY DATA SHEET

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients Methacrylate Resin Liquid

Name	EC No	CAS -No	Content	Symbol	R Phrase
Methyl Methacrylate		80-62-6	40-70%	F, Xi	R11 R37/38 R43

3. HAZARDS IDENTIFICATION

Main Hazards Highly flammable, 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-FIGHTING 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.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** Avoid skin, eye and clothing contact. Provide sufficient ventilation during use. Use personal protective clothing.
- Environmental precautions** 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
- Clean-up procedures** 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.
Store at ambient temperatures.
- Suitable packaging** Must only be kept in original packaging.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

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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

State	Liquid.
Colour	Colourless
Odour	Sweet ester-like
Solubility in water	Insoluble
Density	1.01 g/cm ³ @20°C. (DIN 51757)
Flash point °C	10°C (DIN 51755)

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.
Haz. Decompositon	
Products	None when used as directed.

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.
Bioaccumulative potential	Material sinks in water.
Other adverse effects	Readily bio-degradable (Sturm Test); Toxic to aquatic organisms

13. DISPOSABLE CONSIDERATIONS

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

14. TRANSPORT INFORMATION

ADR/RID

UN no	1866	ADR Class	3
Packing Group	II	Classification	5b
Proper Shipping Name	Resin Solution (containing methyl methacrylate)	code	
		Risk no	33

**MATERIAL
SAFETY DATA SHEET****IMDG/IMO**

UN no	1866	Class	3
Packing Group	II	EmS	3-05
Marine Pollutant	Packed (+/0):0	Labelling	3

IATA/ICAO

UN no	1866	Class	3
Packing Group	II	Packing Instruction	
Labelling	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.

16. OTHER INFORMATION

Other information	Read in conjunction with the appropriate CATALYST component Material Safety Data Sheet.
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Product	RAPID ROOF
Company Name	EcoProof LTD Prees Green, Shropshire, SY13 2BN, UK Tel: 02038 870 353

MATERIAL SAFETY DATA SHEET

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous 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. HAZARDS IDENTIFICATION

Main Hazards Highly flammable, 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-FIGHTING 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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Avoid skin, eye and clothing contact. Provide sufficient ventilation during use. Use personal protective clothing.

Environmental precautions 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

Clean-up procedures Soak up with absorbent material e.g. dry sand, vermiculite, and dispose of as instructed
Shovel up and place in a labeled, sealable container for subsequent disposal.

7. HANDLING AND STORAGE

MATERIAL SAFETY DATA SHEET

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures	Ensure there is sufficient ventilation of the area. OES (long term) 50ppm; OES(short term) 100ppm
Hand protection	Protective gloves of PVC or rubber.
Eye protection	Mono-goggles.
Skin protection	Standard issue work clothes. Safety boots/shoes; chemical resistant.

9. PHYSICAL AND CHEMICAL PROPERTIES

State	Liquid.
Colour	Coloured as indicated on product label
Odour	Sweet ester-like
Solubility in water	Insoluble
Density	1.440 – 1.520 g/cm ³ @20°C. (DIN 51757)
Flash point °C	10°C (DIN 51755)

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.
Haz. Decompositon	
Products	None when used as directed.

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

13. DISPOSABLE CONSIDERATIONS

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

14. TRANSPORT INFORMATION

MATERIAL SAFETY DATA SHEET

ADR/RID

UN no	1866	ADR Class	3
Packing Group	II	Classification	5b
Proper Shipping Name	Resin Solution (containing methyl methacrylate)	code	
		Risk no	33

IMDG/IMO

UN no	1866	Class	3
Packing Group	II	EmS	3-05
Marine Pollutant	Y	Labelling	3

IATA/ICAO

UN no	1866	Class	3
Packing Group	II	Packing Instruction	
Labelling	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.

16. OTHER INFORMATION

Other information	Read in conjunction with the appropriate CATALYST component Material Safety Data Sheet.
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Company Name EcoProof LTD
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients Dibenzoyl peroxide

Name	EC	CAS –No	Content	Symbol	R
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MATERIAL SAFETY DATA SHEET

	No				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. HAZARDS IDENTIFICATION

Main Hazards May cause fire, Irritating to eyes. May cause sensitization by skin contact.

4. FIRST AID MEASURES

- Skin contact** Remove contaminated clothing, wash with soap and copious amounts of water. In case of skin eruption seek medical advice.
- Eye contact** Immediately flush eyes with running water for at least 15 minutes without interruption. Seek medical advice.
- Ingestion** **DO NOT** induce vomiting. Immediately rinse the mouth with water. If swallowing has occurred drink water in small sips. Seek medical attention promptly.
- Inhalation** Move affected person to fresh air. In case of irritation to respiratory system or mucous membranes, or if you feel unwell or in prolonged exposure, get medical attention.

5. FIRE-FIGHTING MEASURES

- Extinguishing media** Dry powder, Carbon Dioxide, Foam and Water Spray.
- Unsuitable**
- Extinguishing media** Halones
- Exposure Hazards** If involved in a fire, it will support combustion. In case of fire and/or explosion do not breath fumes
- Protection of fire-fighters** Wear full protective clothing and self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** Avoid skin, eye and clothing contact. Wear suitable protective clothing. Provide sufficient ventilation during use. Do not breathe dust
- Environmental precautions** Prevent from entering sewer system, surface water or soil. Collect as much as possible in a clean container for re-use or disposal
- Clean-up procedures** Sweep up with dustpan and brush off inert material, flushing the remainder with water

7. HANDLING AND STORAGE

- Handling requirements** Keep product and emptied container away from heat and sources of ignition. Never bring peroxide in direct contact with accelerator during processing.
- Storage conditions** Keep away from reducing agents (e.g. amines), acids, alkalis and heavy metal compounds (e.g. accelerators, driers, metal soaps). Store in accordance with local/national regulations. Store in dry well ventilated place away from sources of direct heat and direct sunlight. Do not mix with peroxide accelerators. Do not mix with reducing agents. Keep container tightly closed in a cool well ventilated place.

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SAFETY DATA SHEET**

Suitable packaging Must only be kept in original packaging.
Other Information When using do not eat, drink or smoke. Wash thoroughly after handling. Keep working clothing separately and do not take them home.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Hand protection Wear suitable gloves of neoprene or synthetic rubber.
Eye protection Wear eye face protection
Skin protection Wear suitable protective clothing. The usual precautionary measures for handling chemicals should be observed. Launder clothes before re-use.
Exposure Control Limits Dibenzoyl peroxide, MEL-TWA 5.0mg/cubic m

9. PHYSICAL AND CHEMICAL PROPERTIES

State Free flowing powder
Colour White
Odour Faint
Solubility in water Insoluble
Density 1230kg/cubic m (20C)
Flash point °C Above the SADT value

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 the following temperature: +60C.
Conditions to avoid Violent reactions may be expected with acid, alkali, heavy metals and reducing agents. Avoid contact with rust. Do not mix with peroxide accelerators. Do not mix with reducing agents
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 minute exposure time)
Skin Contact Non-irritating (4 hours exposure time)
Genotoxicity Ames test: not mutagenic

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. DISPOSABLE CONSIDERATIONS

Probably in controlled incineration but according to local regulations. Sweep up with dustpan and brush off inert material, flushing the remainder with water. Collect for re-

MATERIAL SAFETY DATA SHEET

cycling or most probable controlled incineration. Dilute before burning with organic solvents. Controlled incineration according to local regulations is always preferred. If not possible burn in small portions on a remote place, using a torch with a long rod to ignite the material

14. TRANSPORT INFORMATION

ADR/RID

UN no	3106	ADR Class	5.2
Packing Group	II	Classification code	
Proper Shipping Name	Organic peroxide type d, solid; (Dibenzoyl peroxide)	Hazard ID no	30

IMDG/IMO

UN no	3106	Class	5.2
Packing Group	II	EmS	
Marine Pollutant	No	Labelling	

IATA/ICAO

UN no	1866	Class	5.2
Packing Group	II	Packing Instruction	
Labelling			

15. REGULATORY INFORMATION

Hazard Symbol	Oxidising, Irritant
Risk Phrases	R7, May cause fire. R36, Irritating to eyes. 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(e.g. amines), acids, alkalis and heavy metal compounds. S22, Do not breath dust S36/37/39, Wear suitable protective clothing, gloves and eye/face protection. S50, Do not mix with peroxide-accelerators or reducing agents

16. OTHER INFORMATION

Other information Read in conjunction with appropriate Base M.S.D.S

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