

**Magma UltraCrack L275**  
**[Part.1 – Resin Base | Part.2 – Powder Filler]**



## SAFETY DATA SHEET – Part.1

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) 453/2010

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

<b>Product Name</b>	Magma UltraCrack L275 Base Resin
<b>Product Inclusion</b>	Part.1 of this document covers Magma UltraCrack L275 – Resin only.
<b>Container Size</b>	1.9kg

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

<b>Identified Uses</b>	Grout resin
<b>Uses advised against</b>	Reserved for industrial and professional use.

#### 1.3. Details of the supplier of the safety data sheet

<b>Supplier</b>	Meon Ltd. Railside Northarbour Spur Portsmouth PO6 3TU  +44 (0) 23 9220 0606 mail@meonuk.com
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#### 1.4. Emergency Telephone Number

<b>Emergency telephone</b>	+44 (0) 808 118 1922
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### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

<b>Classification according to Regulation (EC) No. 1272/2008, GB (CLP)</b>	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335
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#### 2.2. Label elements

Hazard pictogram





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<b>1,1`-(p-Tolylimino)dipropan-2-ol</b>	CAS No.: 38668-48-3 EC-No.: 254-075-1 REACH No.: 01-2119980937-17-XXXX	Acute Tox. 2; H300 Eye Irrit. 2; H319 Aquatic Chronic 3; H412	0.1 - 1.0% by weight
<b>N,N-dimethyl-p-toluidine</b>	CAS No.: 99-97-8 EC-No.: 202-805-4 Index-No.: 612-056-00-9 REACH No.: 01-2119937766-23-XXXX	Acute Tox. 3; H331 Acute Tox. 3; H311 Acute Tox. 3; H301 STOT RE 2; H373 Aquatic Chronic 3; H412  <b>GHS06</b> <b>GHS08</b> <b>Dgr</b>	0.1 - 1.0% by weight

**SECTION 4: First aid measures**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

**4.1. Description of first aid measures**

<b>General advice</b>	Move out of dangerous area. Take off all contaminated clothing immediately. Do not leave the victim unattended. Show this safety data sheet to the doctor in attendance.
<b>If inhaled</b>	Move to fresh air. If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.
<b>In case of skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation occurs, get medical advice/attention.
<b>In case of eye contact</b>	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
<b>If swallowed</b>	Rinse mouth. Do NOT induce vomiting. Call a physician immediately.

**4.3. Indication of any immediate medical attention and special treatment needed**

<b>Immediate medical attention</b>	Treat symptomatically.
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**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

<b>Suitable extinguishing media</b>	Carbon dioxide (CO <sub>2</sub> ), Foam, Water spray, Dry powder.
<b>Unsuitable extinguishing media</b>	High volume water jet.

**5.2. Special hazards arising from the substance or mixture**

<b>Special exposure hazards arising from the substance or preparation, itself, its combustion products, or released gases</b>	Violent polymerization may be caused by: Extremes of temperature and direct sunlight.  Fire will produce dense black smoke containing hazardous combustion products (See Section 10). Exposure to decomposition products may be a hazard to health.
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### 5.3. Advice for firefighters

**Special protective equipment for Firefighting** In the event of fire, wear self-contained breathing apparatus.

**Additional information on firefighting** Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Do not allow run-off from firefighting to enter drains or water courses.

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## **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Vapours are heavier than air and may spread along floors.  
Use personal protective equipment.

### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so.  
Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

### 6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g., sand, silica gel, acid binder, universal binder, sawdust).  
Clean contaminated surface thoroughly.  
Treat recovered material as described in the section "Disposal considerations".

### 6.4. Reference to other sections

Disposal considerations. See also Section 13.

### 6.5. Additional information

Treat recovered material as described in the section "Disposal considerations".

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## **SECTION 7: Handling and storage**

### 7.1. Precautions on safe handling

**Advice on safe handling** Handle and open container with care. Avoid contact with skin and eyes. Processing may lead to evolution of flammable volatiles. In case of insufficient ventilation, wear suitable respiratory equipment. Keep product and empty container away from heat and sources of ignition.

**Precautions** Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see Section 8. Observe label precautions.

**Advice on protection against fire and explosion** Take precautionary measures against static discharges.  
Vapours may form explosive mixture with air.  
Use water spray to cool unopened containers.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage space and container requirements** Keep in properly labelled containers.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with the particular national regulations.  
Keep in a cool, well-ventilated place.

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TRGS 510

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**7.3. Specific end use(s)**

No data available.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

Great Britain

**METHYL METHACRYLATE**

Long-term exposure value (ppm)	Long-term exposure value (mg/m <sup>3</sup> )	Short-term exposure value (ppm)	Short-term exposure value (mg/m <sup>3</sup> )	Source
50	208	100	416	EH40/2005 Workplace exposure limits (2011)

Europe

Long-term exposure value (ppm)	Short-term exposure value (ppm)	Issuing date	Source
50	100	2009/161	DIRECTIVE 2009/161/EU

DNEL

Value	Target group	Exposure route	Exposure frequency	Source
210 mg/m <sup>3</sup>	Workers	Inhalation	Long term effects, Local	Company data
210 mg/m <sup>3</sup>	Workers	Inhalation	Long term effects, Systemic	Company data
1.5 mg/cm <sup>2</sup>	Workers	Skin	Long term effects, Local	Company data
13.67 mg/kg	Workers	Skin	Long term effects, Systemic	Company data
105 mg/m <sup>3</sup>	Consumers	Inhalation	Long term effects, Local	Company data
74.3 mg/m <sup>3</sup>	Consumers	Inhalation	Long term effects, Systemic	Company data
1.5 mg/cm <sup>2</sup>	Consumers	Skin	Long term effects, Local	Company data
8.2 mg/kg	Consumers	Skin	Long term effects, Systemic	Company data
1.5 mg/cm <sup>2</sup>	Consumers	Skin	Short-term effects, Local	Company data

PNEC

Value	Exposure Route	Source
0.94 mg/l	fresh water	Company data
0.094 mg/l	marine water	Company data
5.74 mg/kg	sediment	Company data
1.47 mg/kg	soil	Company data

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**DNEL**

**2-ETHYLHEXYL ACRYLATE**

Value	Target group	Exposure route	Exposure frequency	Source
37.5 mg/m <sup>3</sup>	Workers	Inhalation	Long term effects, Local	Company data
0.242 mg/cm <sup>2</sup>	Workers	Skin	Long term effects, Local	Company data
0.242 mg/cm <sup>2</sup>	Workers	Skin	Short-term effects, Local	Company data
4.5 mg/m <sup>3</sup>	Consumers	Inhalation	Long term effects, Local	Company data

**PNEC**

Value	Exposure Route	Source
0.002752 mg/l	freshwater	Company data
0.000272 mg/l	seawater	Company data
2.3 mg/l	wastewater treatment plant	Company data
0.126 mg/kg	sediment water	Company data
0.126 mg/kg	sediment seawater	Company data
1.0 mg/kg	soil	Company data
0.0023 mg/kg	intermittent release	Company data

**DNEL**

**1,1'-(P-TOLYLIMINO)DIPROPAN-2-OL**

Value	Target group	Exposure route	Exposure frequency	Source
2 mg/m <sup>3</sup>	Workers	Inhalation	Long term effects	Company data
0.6 mg/kg	Workers	Skin	Long term effects	Company data

**PNEC**

Value	Exposure Route	Source
199.5 mg/l	wastewater treatment	Company data
0.0072 mg/kg	marine water	Company data
0.017 mg/l	freshwater	Company data

**8.2. Exposure controls**

**Respiratory protection**

In interiors and during exceeding of the air limit values carrying of protective masks is absolutely necessary. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Vapour during processing may be irritating to the respiratory tract and to the eyes. When workers are facing concentrations above the exposure limit, they must use appropriate certified respirators.

**Remarks:**

Recommended Filter type: A1, A2 (in case of higher concentration)  
 Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).

**Hand protection**

Protective gloves complying with EN 374. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

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<b>Unsuitable material:</b>	woven fabric, leather gloves
<b>Suitable material:</b>	Nitriles
<b>Material thickness:</b>	0.38 mm
<b>Break through time:</b>	< 25 min
<b>Eye protection</b>	Tightly fitting safety goggles.
<b>Skin and body protection</b>	Wear suitable protective equipment. Long sleeved clothing.
<b>Engineering measures</b>	Ensure adequate ventilation, especially in confined areas. When workers are facing concentrations above the exposure limit, they must use appropriate certified respirators.
<b>General protective and hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding. Wash hands before breaks and at the end of workday. Use protective skin cream before handling the product. Avoid contact with the skin and the eyes.

#### SECTION 9: Physical and Chemical Properties

##### 9.1. Information on basic physical and chemical properties

<b>Physical State</b>	Liquid
<b>Form</b>	Liquid
<b>Colour</b>	Milky
<b>Odour</b>	Typical for acrylates
<b>Boiling Point (°C)</b>	> 100 °C
<b>Melting point (°C) / Freezing point (°C)</b>	Not determined
<b>Flash Point (°C)</b>	10 °C
<b>Evaporation rate [kg/(s*m<sup>2</sup>)]</b>	Not determined
<b>Explosion limits (vol. %)</b>	The product itself has not been tested.
<b>Lower limit</b>	1.7 vol. % (methyl methacrylate)
<b>Upper limit</b>	12.5 vol. % (methyl methacrylate)
<b>Lower limit</b>	0.9 vol. % (2-ethylhexyl acrylate)
<b>Upper limit</b>	6.4 vol. % (2-ethylhexyl acrylate)
<b>Vapour pressure (kPa)</b>	Not determined
<b>Vapour density</b>	Not determined
<b>Density (g/cm<sup>3</sup>)</b>	0.96 g/cm <sup>3</sup> @ 20 °C
<b>Water solubility (g/l)</b>	
<b>Remarks</b>	Insoluble
<b>Partition coefficient n-octanol /water (log P O/W)</b>	Not determined
<b>Explosive properties</b>	In use, may form flammable/explosive vapour-air mixture.
<b>Oxidising properties</b>	Not relevant

##### 9.2. Other Information

<b>Ignition temperature (°C)</b>	280 °C
<b>Flow time (s)</b>	34 s
<b>Temperature (°C):</b>	20 °C
<b>Measuring method:</b>	DIN cup 6 mm



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**2-ETHYLHEXYL ACRYLATE**

Value	Test criterion	Test species	Source
7522	LD50	Rabbit	Company data

**1,1'-(P-TOLYLIMINO)DIPROPAN-2-OL**

Value	Test criterion	Test species	Source
2001	LD50	Rat	Company data

**N,N-DIMETHYL-P-TOLUIDINE**

Value	Test criterion	Test species	Source
>2001	LD50	Rabbit	Company data

**Inhalation toxicity [mg/l]**

**2-ETHYLHEXYL ACRYLATE**

Value	Test species	Source
1,9	Rat	Company data

**N,N-DIMETHYL-P-TOLUIDINE**

Value	Test criterion	Test species	Source
1,4	LD50	Rat	Company data

**LC50 Inhalation 4h for vapours [mg/l]**

**METHYL METHACRYLATE**

Value	Test criterion	Test species	Source
29,8	LD50	Rat	Company data

**LC50 Inhalation 4h for dusts and sprays [mg/l]**

**N,N-DIMETHYL-P-TOLUIDINE**

Value	Test criterion	Test species	Source
0,8	LD50	Rat	Company data

**Irritant effect on skin**

**METHYL METHACRYLATE**

Value	Test species	Source
Irritating	Rabbit	Company data

**2-ETHYLHEXYL ACRYLATE**

Value	Test species	Exposure duration [h]	Source
Skin irritation	Rabbit	4	Company data

**ALIPHATIC URETHANACRYLATE**

Value	Source
May cause skin irritation	Company data

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**1,1'-(P-TOLYLIMINO)DIPROPAN-2-OL**

Value	Source
No skin irritation	Company data

**N,N-DIMETHYL-P-TOLUIDINE**

Value	Source
Skin irritation	Company data

**Irritant effect on eyes**

**METHYL METHACRYLATE**

Value	Test species	Source
Irritant	Rabbit	Company data

**2-ETHYLHEXYL ACRYLATE**

Value	Test species	Measuring method	Source
Slightly irritating	Rabbit	OECD Test Guideline 405	Company data

**ALIPHATIC URETHANACRYLATE**

Value	Source
Causes serious eye irritation	Company data

**1,1'-(P-TOLYLIMINO)DIPROPAN-2-OL**

Value	Source
Irritant	Company data

**N,N-DIMETHYL-P-TOLUIDINE**

Value	Source
Eye irritation	Company data

**Sensitisation**

**METHYL METHACRYLATE**

Value	Test species	Source
Skin sensitisation	Rabbit	Company data

**2-ETHYLHEXYL ACRYLATE**

Value	Test species	Measuring method	Source
Slightly irritating	Rabbit	OECD Test Guideline 405	Company data

**ALIPHATIC URETHANACRYLATE**

Value	Source
Causes serious eye irritation	Company data

**1,1'-(P-TOLYLIMINO)DIPROPAN-2-OL**

Value	Source
Irritant	Company data

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**N,N-DIMETHYL-P-TOLUIDINE**

Value	Source
Eye irritation	Company data

**Carcinogenic effects**

**METHYL METHACRYLATE**

Value	Test species	Source
Not a carcinogen	Rat, Mouse	Company data

**2-ETHYLHEXYL ACRYLATE**

Value	Source
No known effect	Company data

**Mutagenicity**

**METHYL METHACRYLATE**

Value	Source
Not mutagenic	Company data

**2-ETHYLHEXYL ACRYLATE**

Value	Source
No known effect	Company data

**1,1'-(P-TOLYLIMINO)DIPROPAN-2-OL**

Value	Source
Negative	Company data

**Reproduction toxicity**

**METHYL METHACRYLATE**

Value	Source
Not toxic to reproduction	Company data

**2-ETHYLHEXYL ACRYLATE**

Value	Source
No known effect	Company data

**Specific target organ toxicity (single exposure) (mg/kg)**

**METHYL METHACRYLATE**

Value	Source
No known effect.	Company data

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**Specific target organ toxicity (repeated exposure) (mg/kg)**

**2-ETHYLHEXYL ACRYLATE**

Value	Source
No known effect.	Company data

**11.2. Additional information**

**Experience in practice**

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Irritating to eyes, respiratory system and skin. Irritating to mucous membranes.

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Toxicity to fish [mg/l]**

**METHYL METHACRYLATE**

Value	Test criterion	Test species	Exposure Duration	Measuring method	Source
191	LC50	<i>Oncorhynchus mykiss</i> (rainbow trout)	96 h	OECD Test Guideline 203	Company data

**2-ETHYLHEXYL ACRYLATE**

Value	Test criterion	Test species	Exposure Duration	Measuring method	Source
1,81	EC50	<i>Oncorhynchus mykiss</i> (rainbow trout)	96 h	OECD Test Guideline 203	Company data

**1,1'-(P-TOLYLIMINO)DIPROPAN-2-OL**

Value	Test criterion	Test species	Exposure Duration	Source
17	LC50	<i>Brachydanio rerio</i> (Zebra fish)	96 h	Company data

**N,N-DIMETHYL-P-TOLUIDINE**

Value	Test criterion	Source
52	LC50	Company data

**Toxicity to daphnia [mg/l]**

**METHYL METHACRYLATE**

Value	Test criterion	Test species	Exposure Duration	Measuring method	Source
69	EC50	<i>Daphnia magna</i> (Water flea)	48 h	OECD Test Guideline 202	Company data

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**2-ETHYLHEXYL ACRYLATE**

Value	Test criterion	Test species	Exposure Duration	Measuring method	Source
1,3	EC50	<i>Daphnia magna (Water flea)</i>	48 h	OECD Test Guideline 202	Company data

**ALIPHATIC URETHANACRYLATE**

Value	Test criterion	Test species	Source
>100	LC50	<i>Daphnia magna (Water flea)</i>	Company data

**1,1'-(P-TOLYLIMINO)DIPROPAN-2-OL**

Value	Test criterion	Test species	Source
28.8	EC50	<i>Daphnia magna (Water flea)</i>	Company data

**N,N-DIMETHYL-P-TOLUIDINE**

Toxicity to algae (mg/l)	Test criterion	Source
52	LC50	Company data

**Toxicity to algae [mg/l]**

**METHYL METHACRYLATE**

Value	Test criterion	Test species	Exposure Duration	Measuring method	Source
>110 mg/l	EC50	<i>Selenastrum capricornutum (Green algae)</i>	72 h	OECD Test Guideline 201	Company data

**2-ETHYLHEXYL ACRYLATE**

Value	Test criterion	Test species	Measuring method	Source
1,71	EC50	<i>Desmodesmus subspicatus</i>	27 h	Company data

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**1,1'-(P-TOLYLIMINO)DIPROPAN-2-OL**

Value	Test criterion	Test species	Source
245	EC50	<i>Desmodesmus subspicatus</i>	Company data

**NOEC (fish) (mg/l)**

**METHYL METHACRYLATE**

Value	Test species	Measuring method	Source
9,4	<i>Brachydanio rerio</i> (zebra fish)	OECD Test Guideline 210	Company data

**NOEC (Daphnia) (mg/l)**

**METHYL METHACRYLATE**

Value	Test species	Measuring method	Source
37	<i>Daphnia magna</i> (Water flea)	OECD Test Guideline 202	Company data

**NOEC (algae) (mg/l)**

**2-ETHYLHEXYL ACRYLATE**

Value	Test species	Measuring method	Source
0,45	<i>Desmodesmus subspicatus</i>	OECD Test Guideline 201	Company data

**12.2. Persistence and degradability**

**Biodegradability**

**METHYL METHACRYLATE**

Value	Method of Analysis	Source
Readily biodegradable.	OECD 301C/ ISO 9408/ EEC 92/69/V, C.4-F	Company data

**2-ETHYLHEXYL ACRYLATE**

Value	Source
Readily biodegradable.	Company data

**1,1'-(P-TOLYLIMINO)DIPROPAN-2-OL**

Value	Source
Poorly biodegradable.	Company data

**N,N-DIMETHYL-P-TOLUIDINE**

Value	Source
No data available	Company data

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**12.3. Bioaccumulative potential**

**Bioaccumulation**

**METHYL METHACRYLATE**

Value	Source
Does not bioaccumulate.	Company data

**ETHYLHEXYL ACRYLATE**

Value	Source
Bioaccumulation slight, log Pow 4.64	Company data

**1,1`-(P-TOLYLIMINO)DIPROPAN-2-OL**

Value	Source
No data available	Company data

**N N,N-DIMETHYL-P-TOLUIDINE**

Value	Source
No data available	Company data

**12.4. Mobility in Soil**

**METHYL METHACRYLATE**

Mobility	Source
Terrestrial Compartment Not relevant	Company data

**12.5. Results of PBT and vPvB assessment**

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

**12.6. Other adverse effects**

We have no quantitative data concerning the ecological effects of this product.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

<b>Disposal considerations</b>	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. The following Waste Codes are only suggestions:
<b>Waste Code</b>	08 01 11* waste paint and varnish containing organic solvents or other dangerous substances
<b>Uncleaned empty packaging</b>	The return of packaging materials is regulated by the Interseroh system.



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**SECTION 16: Other information**

**Relevant H-phrases**

H225 - Highly flammable liquid and vapour.  
H300 – Fatal if swallowed.  
H301 - Toxic if swallowed.  
H311 - Toxic in contact with skin.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H331 - Toxic if inhaled.  
H335 - May cause respiratory irritation.  
H373 - May cause damage to organs through prolonged or repeated exposure.  
H412 - Harmful to aquatic life with long lasting effects.

**Wording of the hazard classes**

Flam. Liq. - Flammable liquid  
Skin Irrit. - Skin irritation  
Skin Sens. - Skin sensitization  
STOT SE - Specific target organ toxicity - single exposure  
Aquatic Chronic - Hazardous to the aquatic environment  
Eye Irrit. - Serious eye irritation  
Acute Tox. - Acute toxicity  
STOT RE - Specific target organ toxicity - repeated exposure

**Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]**

<b>Classification</b>	<b>Evaluation</b>
Flam. Liq. 2; H225	Calculated
Skin Irrit. 2; H315	Calculated
Skin Sens. 1; H317	Calculated
STOT SE 3; H335	Calculated

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

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**SAFETY DATA SHEET – Part.2**

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) 453/2010

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

<b>Product Name</b>	UltraCrack L270 MMA
<b>Product Inclusion</b>	Part.2 of this document covers MMA Resin Peroxide Only.
<b>Container Size</b>	Variable

**1.2. Relevant identified uses of the substance of mixture and uses advised against**

<b>Identified Uses</b>	Hardener
<b>Uses advised against</b>	No specific uses advised against are identified.

**1.3. Details of the supplier of the safety data sheet**

<b>Supplier</b>	Meon Ltd. Railside Northharbour Spur Portsmouth PO6 3TU  +44 (0) 23 9220 0606 mail@meonuk.com
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**1.4. Emergency Telephone Number**

<b>Emergency telephone</b>	+44 (0) 808 118 1922
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**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification according to regulation EC1272/2008 and amendments, GB (CLP)**

Organic peroxides, Type D H242: Heating may cause a fire.  
Eye irritation, Category 2 H319: Causes serious eye irritation.  
Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.  
Aquatic Acute 1; H400 Aquatic Chronic 1; H410

**2.2. Label Elements**

Hazard pictograms

**Magma UltraCrack L275**  
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**Signal word**

Danger

**Hazardous component(s) for labelling**

Contains Dibenzoyl peroxide – Dicyclohexyl phtalate

**H-statement(s)**

H242 Heating may cause a fire.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H410 Very toxic to aquatic life with long lasting effects.

**P-statement(s)**

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.  
P261 Avoid breathing dust.  
P273 Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P281 Use personal protective equipment as required.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P337+P313: If eye irritation persists: Get medical advice /attention.  
P391: Collect spillage  
P403: Store in a well-ventilated place.  
P420: Store separately.

**2.3. Other hazards**

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

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**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

Ingredient	N° CAS N° EC N° REACH	Classification (EC) 1272/2008	Concentration
Ethylene dibenzoate	94-49-5 202-338-6 01-2120759933-41-XXXX	Aquatic Chronic 2; H411	45.0 – 50.0 % By weight
Dibenzoyl peroxide	94-36-0 202-327-6 2119511472-50	Org. Perox. B – H241 Skin Sens. 1 – H317 Eye Irrit. 2 – H319 Aquatic Acute 1 – H400  <b>GHS01</b> <b>GHS02</b> <b>GHS07</b> <b>Dgr</b>	45.0 – 50.0 % By weight

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

<b>General advice</b>	If symptoms persist, call a doctor.
<b>In case of inhalation:</b>	Remove to fresh air. Call a doctor immediately.
<b>In case of skin contact:</b>	Wash off immediately with soap and plenty of water.
<b>In case of eye contact:</b>	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
<b>In case of ingestion:</b>	Rinse mouth. Do NOT induce vomiting. Call a doctor immediately.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media** Carbon dioxide (CO<sub>2</sub>), Dry powder, Dry sand, Water spray, Foam.

**Extinguishing media which must not be used for safety reasons** Halons

**5.2. Special hazards arising from the substance or mixture**

Carbon dioxide (CO<sub>2</sub>), Carbon monoxide, Benzoic acid, Benzene.

**5.3. Advice for firefighters**

**Special protective equipment for firefighting.** In the event of fire, wear self-contained breathing apparatus.

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#### Additional information on firefighting.

Cool closed containers exposed to fire with water spray.

#### SECTION 6: Accidental release measures

##### **6.1. Personal precautions, protective equipment and emergency procedures**

Do not breathe dust. Avoid contact with skin and eyes. Use personal protective equipment.

##### **6.2. Environmental precautions**

Do not flush into surface water or sanitary sewer system.

##### **6.3. Methods and material for containment and cleaning up**

Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

##### **6.5. Other information**

Risk of ignition.

#### SECTION 7: Handling and storage

##### **7.1. Precautions on safe handling**

Wear personal protective equipment. Do not breathe dust. Avoid contact with skin and eyes.

##### **7.2. Conditions for safe storage, including any incompatibilities**

Requirements for storage areas and containers: Organic peroxides Type: OP II  
Store in original container. Keep container tightly closed in a dry and well-ventilated place.

TRGS 510 5.2

Recommended storage temperature: Maximum 25 °C

#### SECTION 8: Exposure controls/personal protection

##### **8.1. Control parameters**

##### Ethylene dibenzote

DNEL	Target group	Exposure route	Exposure frequency	Source
10,6 mg/m <sup>3</sup>	Workers	Inhalation	Long term effects systemic	Company data
3 mg/kg	Workers	Skin	Long term effects systemic	Company data

PNEC	Exposure route	Source
0,0073 mg/l	Freshwater	Company data
0,00073 mg/l	Seawater	Company data
2,23 mg/kg	Freshwater sediment	Company data
0,223 mg/kg	Marine sediment	Company data
128 mg/l	Wastewater pre-treatment	Company data
0.44 mg/kg	Soil	Company data

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**dibenzoyl peroxide**

Great Britain	
Long-term exposure value mg/m <sup>3</sup>	Source
5	EH40/2005 Workplace exposure limits (2011)

DNEL	Target group	Exposure route	Exposure frequency	Source
11,75 mg/m <sup>3</sup>	Workers	Inhalation	Long term effects	Company data
6,6 mg/kg	Workers	Dermal exposure	Long term effects	Company data
2,9 mg/m <sup>3</sup>	Workers	Inhalation	Long term effects	Company data
3,3 mg/kg	Consumers	Dermal exposure	Long term effects	Company data
1,65 mg/kg	Consumers	Oral	Long term effects	Company data

PNEC	Exposure route	Source
0,000602 mg/l	Freshwater	Company data
0,338 mg/kg	Freshwater sediment	Company data
0,0000602 mg/l	Marine water	Company data
0,0338	Marine sediment	Company data
0,35 mg/l	Wastewater pre-treatment	Company data
6,67 mg/l	Oral	Company data

**8.2. Exposure controls**

<b>Respiratory protection</b>	Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).
<b>Remarks</b>	Recommended Filter type: P 1
<b>Hand protection</b>	Butyl-rubber Nitriles
<b>Eye Protection</b>	Tightly sealed goggles.
<b>Engineering measures</b>	Ensure adequate ventilation, especially in confined areas.

**SECTION 9: Physical and Chemical Properties**

**9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	Solid
<b>Colour</b>	White
<b>Odour</b>	Characteristic
<b>Odour Threshold</b>	Not determined.
<b>pH</b>	Not applicable.
<b>Melting point/freezing point</b>	Not applicable.
<b>Initial boiling point and boiling range</b>	Not applicable.
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Flammability</b>	Heating may cause fire.
<b>Explosion limits</b>	Not applicable.
<b>Vapour pressure</b>	Not applicable.

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Relative vapour density	Not applicable.
Density	1,23 g/cm <sup>3</sup>
Water solubility	Not determined.
Partition coefficient: n octanol/ water (log P O/W)	Not determined.
Auto in flammability	Not auto-flammable.
Decomposition temperature	55 °C
Viscosity, dynamic [kg/(m s)]	Not applicable.
Risk of explosion	Risk of dust explosion.

**9.2. Other information**

Ignition temperature	55 °C
Bulk density	650 kg/m <sup>3</sup>

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

**Thermal decomposition** Self-Accelerating decomposition temperature (SADT) 55 °C

**10.4. Conditions to avoid**

Avoid shock and friction. Temperatures above 25°C can influence the product characteristics.

**10.5. Incompatible materials**

**Materials to avoid** Rust, Iron, Copper, Acids, Reducing agents.

**10.6. Hazardous decomposition products**

Benzoic acid, Benzene

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Oral Toxicity [mg/kg]**

**Ethylene dibenzoate**

Value	Test criterion	Test species	Measuring method	Source
>2001 mg/kg	LD50	Rat	OECD Test Guideline 416	Company data

**Dibenzoyl peroxide**

Value	Test criterion	Test species	Source
>5000 mg/kg	LD50	Rat	Company data

**Inhalative toxicity [mg/l]**

**Dibenzoyl peroxide**

Value	Test criterion	Test species	Measuring method	Exposure duration [h]	Source
24,3 mg/l	LD50	Rat	OECD Test Guideline 403	4 Hours	Company data

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**LC50 Inhalation 4h for dusts and sprays [mg/l]**

**Dibenzoyl peroxide**

Value	Test criterion	Test species	Source
24,3 mg/l	LC0	Rat	Company data

**Irritant effect on skin**

**Ethylene dibenzoate**

Value	Test species	Measuring method	Exposure duration [h]	Source
No skin irritation	Rabbit	OECD Test Guideline 404	4 hours	Company data

**Dibenzoyl peroxide**

Value	Test species	Measuring method	Source
No skin irritation	Rabbit	OECD Test Guideline 404	Company data

**Irritant effect on eyes**

**Ethylene dibenzoate**

Value	Test species	Measuring method	Exposure duration [h]	Source
No eye irritation	Rabbit	OECD Test Guideline 405	1 hour	Company data

**Dibenzoyl peroxide**

Value	Test species	Measuring method	Source
Eye irritation, reversibel innerhalb 21 Tage	Rabbit	OECD Test Guideline 405	Company data

**Sensitisation**

**Ethylene dibenzoate**

Value	Test species	Measuring method	Remarks	Source
No known effect	Mouse	OECD 429	Skin sensitisation	Company data

**Dibenzoyl peroxide**

Value	Measuring method	Test species	Source
Skin sensitisation	OECD TG 429	Mouse	Company data

**Carcinogenic effects**

**Ethylene dibenzoate**

Value	Source
No known effect	Company data

**Dibenzoyl peroxide**

Value	Source
Did not show carcinogenic effects in animal experiments.	Company data

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**Mutagenicity**

**Ethylene dibenzoate**

Value	Source
No known effect	Company data

**Dibenzoyl peroxide**

Value	Source
Did not show mutagenic effects in animal experiments.	Company data

**Reproduction toxicity**

**Ethylene dibenzoate**

Value	Source
No known effect	Company data

**Dibenzoyl peroxide**

Value	Source
No toxicity to reproduction	Company data

**Specific target organ toxicity (single exposure) [mg/kg]**

**Dibenzoyl peroxide**

Value	Source
No data available	Company data

**Specific target organ toxicity (repeated exposure) [mg/kg]**

**Dibenzoyl peroxide**

Value	Source
Animal testing did not show any hazardous effects	Company data

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Toxicity to fish [mg/l]**

**Ethylene dibenzoate**

Value	Test criterion	Test species	Measuring method	Exposure duration [h]	Source
(>0,434) mg/l	LC50	Brachydanio rerio (zebra fish)	OECD Test Guideline 203	96 h	Company data

**Dibenzoyl peroxide**

Value	Test criterion	Test species	Measuring method	Exposure duration [h]	Source
0,0602 mg/l	LC50	Oncorhynchus mykiss (rainbow trout)	OECD Test Guideline 203	96 h	Company data

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**Toxicity to daphnia [mg/l]**

**Ethylene dibenzoate**

Value	Test criterion	Test species	Measuring method	Exposure duration [h]	Source
1,4 mg/l	EC50	Daphnia magna (Water flea)	OECD TG 211	21 Days	Company data

**Dibenzoyl peroxide**

Value	Test criterion	Test species	Measuring method	Exposure duration [h]	Source
0,110 mg/l	EC50	Daphnia magna (Water flea)	OECD Test Guideline 202	48 h	Company data

**Toxicity to algae [mg/l]**

**Ethylene dibenzoate**

Value	Test criterion	Test species	Measuring method	Exposure duration [h]	Source
(>0,87) mg/l	ErC50	Pseudokirchneriella subcapitata	OECD Test Guideline 201	72 h	Company data

**Dibenzoyl peroxide**

Value	Test criterion	Test species	Measuring method	Exposure duration [h]	Source
0,0711 mg/l	EC50	Pseudokirchneriella subcapitata	OECD Test Guideline 201	72 h	Company data

**NOEC (fish) [mg/l]**

**Ethylene dibenzoate**

Value	Test species	Measuring method	Source
0,073 mg/l	Brachydanio rerio (zebra fish)	OECD Test Guideline 201	Company data

**NOEC (daphnia) [mg/l]**

**Ethylene dibenzoate**

Value	Test species	Measuring method	Source
0,045 mg/l	Daphnia magna (Water flea)	OECD TG 211	Company data

**NOEC (algae) [mg/l]**

**Ethylene dibenzoate**

Value	Test species	Measuring method	Source
0,045 mg/l	Pseudokirchneriella subcapitata	OECD Test Guideline 201	Company data

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**12.2 Persistence and degradability**

**Biodegradability**

**Ethylene dibenzoate**

Value	Duration	Measuring method	Method of analysis	Source
Readily biodegradable. 81 %	28 Day(s)	Closed bottle test	OECD 301D/ EEC 92/69/V, C.4-E	Company data

**Dibenzoyl peroxide**

Value	Duration	Measuring method	Remarks	Source
Biodegradable. 68 %	28 Day(s)	OECD 301D/ EEC 92/69/V, C.4-E	inherently biodegradable	Company data

**12.3. Bioaccumulative potential**

**Dibenzoyl peroxide**

Value	Source
3.2 Bioaccumulation is unlikely.	Company data

**12.5 Results of PBT and vPvB assessment**

**Ethylene dibenzoate**

Value	Source
This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).	Company data

**Dibenzoyl peroxide**

Value	Source
This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).	Company data

**12.6 Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

<b>Disposal considerations</b>	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. The following Waste Codes are only suggestions:
<b>Waste Code</b>	16 09 03* peroxides, e.g., hydrogen peroxide
<b>Uncleaned empty packaging</b>	The return of packaging materials is regulated by the Interseroh system.

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**SECTION 14: Transport information**

	ADR / RID	IMDG	IATA
<b>14.1 N° ONU</b>		3106	
<b>14.2 UN proper shipping name</b>		ORGANIC PEROXIDE TYPE D, SOLID	ORGANIC PEROXIDE TYPE D, SOLID
<b>14.3 Transport hazard classes label</b>		5.2	
			
<b>Danger releasing substance</b>	Dibenzoyl peroxide		
<b>14.4 Packing Group</b>	Not applicable.	Not applicable.	Not applicable.
<b>14.5 Dangerous for Environment</b>	Yes - U Environmentally hazardous	Yes – U Marine pollutant	Yes - U Environmentally hazardous
<b>14.6 Special precautions for users</b>	Tunnel restriction: D Limited quantities: 500g	Limited quantities :500g	
<b>14.7 Transport in bulk (annexe II MARPOL 73/78 and IBC code)</b>	Not applicable.		
<b>14.8 Additional information</b>	Packaging type OP7		

**SECTION 15: Regulatory information**

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

**Additional regulations**                      Additionally, observe any national regulations.

**MAL-Code**                                      0-4

**15.2 Chemical safety assessment**

No information available.

**SECTION 16: Other information**

**Relevant H phrases**

H241 Heating may cause a fire or explosion.

H242 Heating may cause a fire.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

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**Wording of the hazard classes**

Aquatic Chronic: Hazardous to the aquatic environment  
Org. Perox.: Organic peroxide  
Eye Irrit.: Serious eye irritation  
Skin Sens.: Skin sensitization  
Aquatic Acute: Hazardous to the aquatic environment

**Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008  
[CLP]**

<b>Classification</b>	<b>Evaluation</b>
H242: Heating may cause a fire.	The product was tested according to the official UN test methods: the BAM Fallhammer test for impact sensitivity and the BAM friction sensitivity test. Result: Slightly sensitive.
Org. Perox. D; H242	Calculated
Eye Irrit. 2; H319	Calculated
Skin Sens. 1; H317	Calculated
Aquatic Acute 1; H400	Calculated
Aquatic Chronic 1; H410	Calculated

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