

#### **SAFETY DATA SHEET**

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

Product Name UltraCrack L270 MMA

**Product Inclusion** Part.1 of this document covers UltraCrack L270 MMA base resin only.

Container Size 9kg, 18kg

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

**Identified Uses** Road marking material.

**Uses advised against**No specific uses advised against are identified.

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

Supplier MHL Group, (Trading name of Meon Ltd.)

Railside

Northarbour Spur Portsmouth PO6 3TU

+44 (0) 23 9220 0606 mail@meonuk.com

# 1.4. Emergency Telephone Number

**Emergency telephone** +44 (0) 800 118 1922

#### **SECTION 2: Hazards identification**

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

# Classification (REGULATION (EC) No 1272/2008)

Flam. Liq 2; H225 Skin Irrit. 2; H315 Skin Sens.; H317

#### Classification (67/548/EEC, 1999/45/EC)

Flammable: R10 Skin Sens.: R43

For the full text of the R-phrases mentioned in this Section, see Section 16. For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2. Label Elements





GHS02 GHS07

Signal word

Hazardous component(s) to be

indicated on label H-statement(s)

2-ethylhexyl acrylate, methyl methacrylate, Fatty acids, C18-unsatd., dimers reaction

products with N, N-Dimethyl-1, 3-propanediaminund 1, 3-Propanediamin

H225: Highly flammable liquid and vapour.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

P-statement(s) P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection/

hearing protection.

Danger

P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P362+P364: Take off contaminated clothing and wash if before reuse.

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

#### 3.2. Mixtures

#### Hazardous ingredients

Ingredient		Classification (EC) 1272/2008	Concentration
methyl methacrylate	CAS No.: 80-62-6 EC-No.: 201-297-1	Flam. Liq. 2; H225 STOT SE 3; H335 Skin Irrit. 2; H315 Skin Sens.	5.0 – 10.0% by weight
	Index-No.: 607-035-00-6 REACH No.:	1; H317	
	01-2119452498-28-XXXX	GHS02 GHS07	
		Dgr	
2-ethylhexyl acrylate	CAS No.: 103-11-7 EC-No.: 203-080-7	Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335	5.0 – 10.0% by weight
	Index-No.: 607-107-00-7 REACH No.:	GHS07	
	01-2119453158-37-XXXX	Wng	
2,2'-[(4-methylphenyl)imino]	CAS No.: 3077-12-1 EC-No.: 221-359-1 REACH No.: 01-2120791684-40-XXXX	Acute Tox. 4; H302 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 3; H412	0.1 - 1.0 % by weight
Fatty acids, C18-unsatd., dimers reaction products with N,N-dimethyl- 1,3-propanedi-amine and 1,3- propanediamine	CAS No.: 162627-17-0 EC-No.: 605-296-0 REACH No.: 01-2119970640-38-XXXX	Skin Sens. 1; H317	0.1 – 1.0% by weight

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

General advice

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.

If inhaled Move to fresh air. If symptoms persist, call a physician. Show this safety data sheet to

the doctor in attendance.

In case of skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If skin irritation occurs, get medical advice/attention.

In case of eye contact In the case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

If swallowed Rinse mouth. Do NOT induce vomiting. Call a physician immediately.

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

Treat symptomatically

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media Carbon dioxide (CO2), Foam, Water spray, Dry powder

Extinguishing media which must not be used for safety reasons

High volume water jet

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

Special exposure hazards arising from the substance or preparation Violent polymerization may be caused by: Extremes of temperature and

direct sunlight.

itself, its combustion products,

or released gases.

Fire will produce dense black smoke containing hazardous combustion products (see section 10). Exposure to decomposition products may be a

hazard to health.

#### 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.

#### **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.

#### 6.4. Reference to other sections

For disposal considerations see section 13.

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#### 6.5. Additional information

Treat recovered material as described in the section 13.

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

# 7.1. Precautions on safe handling

Advise on safe handling 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. Handle and open container

with care. Avoid contact with skin and eyes.

**Precautions** Smoking, eating and drinking should be prohibited in the application area. For

personal protection see section 8. Observe label precautions.

Advise on protection against fire

and explosion

 $\label{thm:continuous} \textbf{Take precautionary measures against static discharges. Vapours may form}$ 

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

Storage must be in accordance with the BetrSichV (Germany). Keep in a cool, well-ventilated place. Keep in properly labelled containers. Containers which are

opened must be carefully resealed and kept upright to prevent leakage.

TRGS 510

#### Recommended storage temperature

Keep in a dry, cool place.

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

# 8.1. Control parameters

# METHYL METHACRYLATE

Great Britain					
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 limit (2011)	

Europe						
Long-term	Short-term exposure value/ppm	Issuing date	Source			
exposure						
value/ppm						
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	Dermal	Long term effects local	Company data
13,67 mg/kg	Workers	Dermal	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	Dermal	Long term effects local	Company data
8,2 mg/kg	Consumers	Dermal	Long term effects systemic	Company data
1,5 mg/cm <sup>2</sup>	Consumers	Dermal	Short term effects local	Company data

# **PNEC**

Value	Exposure route	Source
0,94 mg/l	Freshwater	Company data
0,094 mg/l	Marine Water	Company data
5,74 mg/kg	Sediment	Company data
1,47 mg/kg	Soil	Company data

#### 2-ETHYLHEXYL ACRYLATE

# DNEL

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	Dermal	Long term effects local	Company data
0,242 mg/cm <sup>2</sup>	Workers	Dermal	Short term effects local	Company data
4,5 mg/m <sup>3</sup>	Consumers	Inhale	Long term effects local	Company data

# **PNEC**

Value	Exposure route	Source
0,002752 mg/l	Fresh water	Company data
0,000272 mg/l	Seawater	Company data
2,3 mg/l	Wastewater treatment plan	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 releases	Company data

# 2,2-[(4-METHYLPHENYL)IMINO]BISETHANOL

# DNEL

Value	Target group	Exposure route	Exposure frequency	Source
0,47 mg/kg	Workers	Dermal	Long term effects systemic	Company data

# **PNEC**

Value	Exposure route	Source
0,003 mg/l	Seawater	Company data
0,121 mg/kg	Freshwater sediment	Company data
0,026 mg/l	Freshwater	Company data
0,012 mg/kg	Marine sediment	Company data
10 mg/l	Wastewater treatment	Company data

0,009 mg/kg Soil Company dat	0,009 mg/kg	Soil	Company data
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8.2. Exposure controls

**Respiratory Protection** In interiors and during exceeding of the air limit values carrying of

protective masks is absolutely necessary.

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.

Suitable Material: Nitriles Material thickness: 0,38mm Break through time: <25 min

**Eye Protection** Tightly fitting safety goggles.

**Skin and body Protection** Wear suitable protective equipment. Long sleeved clothing.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

Keep away from food, drink and animal feeding stuffs. 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.

**Engineering Measures** Ensure adequate ventilation, especially in confined areas. When workers

are facing concentrations above the exposure limit they must use

appropriate certified respirators.

#### **SECTION 9: Physical and Chemical Properties**

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

Physical state Liquid
Form Liquid

**Odour** Smell of Methylmethacrylate

pHNot applicableRemarksNon-aqueousMelting point [°C] / Freezing pointNot determined

Boiling Point [°C] >100 °C Flash point [°C] 21.5 °C

Evaporation Rate [kg/(s\* m²)] Not determined

Explosion limits [Vol-%]

The product itself has not been tested.

**Lower limit** methyl methacrylate

**Upper limit** 1,7 vol. %

12,5 vol. %

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2-ethylhexyl acrylate

Lower limit0,9 vol. %Upper limit6,4 vol. %

Vapour pressure [kPa]<500 hPa</th>Temperature [°C]50 [°C]

Vapour densityNot determinedDensity [g/cm³]Appr. 1,90 g/cm³Water SolubilityInsolublePartitioncoefficient n-octanol /water (log P O/W)Not determinedViscosity, dynamic [kg/(m\*s)]12.000 mPas\*s

Temperature 20 °C

Measuring Method Haake-Viscotester

**Explosive properties** In use, may form flammable/explosive vapour-air

mixture.

Oxidising properties Not relevant

9.2. Other information

Ignition temperature 280 °C

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No data available

#### 10.2. Chemical stability

No data available

#### 10.3. Possibility of hazardous reactions

The product is normally supplied in a stabilized form. If the permissible storage period and/or storage temperature is noticeably exceeded, the product may polymerize with heat evolution. Risk of receptacle bursting.

#### 10.4. Conditions to avoid

Extremes of temperature and direct sunlight.

#### 10.5. Incompatible materials

Reacts violently with peroxides. Reducing agents, Strong bases, Amines, Oxidizing agents

# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Hazardous ingredients

#### Oral Toxicity [mg/kg]

#### **METHYL METHACRYLATE**

Value	Test criterion	Test species	Measuring method	Source
>5001	LD50	Rat	OWCD Test Guideline	Company data
			401	

# 2-ETHYLHEXYL ACRYLATE

Value	Test criterion	Test species	Source
4435 mg/kg	LD50	Rat	Company data

#### 2,2'-[(4-METHYLPHENYL)IMINO]BISETHANOL

Value Test criterion Test species Source
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959 mg/kg	LD50	Rat	Company data
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# FATTY ACIDS, C18-UNSTAD., DIMERS REACTION PRODUCTS WITH N,N-DIMETHYL-1,3-PROPANEDIAMINE AND 1,3-PROPANEDIAMINE

Value	Test criterion	Test species	Measuring method	Source
>10000 mg/kg	LD50	Rat	OECD Test	Company data
			Guideline 401	

#### **Dermal Toxicity [mg/kg]**

#### **METHYL METHACRYLATE**

Value	Test criterion	Test species	Source
>5001 mg/kg	LD50	Rabbit	Company data

#### 2-ETHYLHEXYL ACRYLATE

Value	Test criterion	Test species	Source
7522 mg/kg	LD50	Rabbit	Company data

#### 2,2'-[(4-METHYLPHENYL)IMINO]BISETHANOL

Value	Test species	Measuring method	Source
>2001 mg/kg	Rat	OECD Test Guideline 402	Company data

#### Inhalative toxicity [mg/l]

# 2-ETHYLHEXYL ACRYLATE

Value	Test species	Source
1,19 mg/l	Rat	Company data

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

#### **METHYL METHACRYLATE**

Value	Test criterion	Test species	Source
29,8 mg/l	LC50	Rat	Company data

#### Irritant effect on skin

# METHYL METHACRYLATE

Value	Test species	Source
Irritation	Rabbit	Company data

#### 2-ETHYLHEXYL ACRYLATE

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

# 2,2'-[(4-METHYLPHENYL)IMINO]BISETHANOL

Value	Test species	Source
No skin irritation	Rabbit	Company data

# FATTY ACIDS, C18-UNSTAD., DIMERS REACTION PRODUCTS WITH N,N-DIMETHYL-1,3-PROPANEDIAMINE AND 1,3-PROPANEDIAMINE

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

# **Irritant effect on eyes**

#### **METHYL METHACRYLATE**

Value	Test species	Source
Irritant	Rabbit	Company data

#### **2-ETHYLHEXYL ACRYLATE**

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

# 2,2'-[(4-METHYLPHENYL)IMINO]BISETHANOL

Value	Source
Risk of serious damage to eyes	Company data

# FATTY ACIDS, C18-UNSTAD., DIMERS REACTION PRODUCTS WITH

#### N,N-DIMETHYL-1,3-PROPANEDIAMINE AND 1,3-PROPANEDIAMINE

Value	Measuring method	Test species	Source
No eye irritation	OECD Test Guideline 405	Rabbit	Company data

#### **Sensitisation**

# **METHYL METHACRYLATE**

Value	Test species	Source
Skin sensitisation	Mouse	Company data

#### **2-ETHYLHEXYL ACRYLATE**

Value	Source
Skin sensitisation	Company data

# 2,2'-[(4-METHYLPHENYL)IMINO]BISETHANOL

Value	Source
No known effect.	Company data

# FATTY ACIDS, C18-UNSTAD., DIMERS REACTION PRODUCTS WITH

# N,N-DIMETHYL-1,3-PROPANEDIAMINE AND 1,3-PROPANEDIAMINE

Value	Measuring method	Source
Skin sensitiser	OECD 429	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

# 2,2'-[(4-METHYLPHENYL)IMINO]BISETHANOL

Value	Measuring method	Test species	Remarks	Source
Negative	Ames test	Bacteria	In vitro methods	Company data

# FATTY ACIDS, C18-UNSTAD., DIMERS REACTION PRODUCTS WITH

#### N,N-DIMETHYL-1,3-PROPANEDIAMINE AND 1,3-PROPANEDIAMINE

Value	Measuring method	Source
Negative	Ames test OECD 471	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
Causes respiratory tract	Company data
irritation	

#### 2-ETHYLHEXYL ACRYLATE

Value	Source
Causes respiratory tract	Company data
irritation	

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

#### **METHYL METHACRYLATE**

Value	Source
No known effect	Company data

#### **2-ETHYLHEXYL ACRYLATE**

Value	Source
No known effect	Company data

# 11.2 Additional information

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**

**Hazardous ingredients** 

# **METHYL METHACRYLATE**

Value	Test criterion	Test species	Exposure duration	Measuring method	Source
191	LC50	Oncorhynchus mykiss (rainbow trout)	96H	OECD Test Guideline 203	Company data

#### 2-ETHYLHEXYL ACRYLATE

Value	Test criterion	Test species	Exposure duration	Measuring method	Source
1,81	LC50	Oncorhynchus	96H	OECD Test Guideline	Company
		mykiss		203	data
		(rainbow trout)			

#### 2,2'-[(4-METHYLPHENYL)IMINO]BISETHANOL

Value	Test criterion	Test species	Exposure duration	Measuring method	Source
101	LC50	Brachydanio	96H	OECD Test Guideline	Company
		rerio (zebra		203	data
		fish)			

# FATTY ACIDS, C18-UNSTAD., DIMERS REACTION PRODUCTS WITH

# N,N-DIMETHYL-1,3-PROPANEDIAMINE AND 1,3-PROPANEDIAMINE

Value	Test criterion	Test species	Measuring method	Source
>150	LC50	Leuciscus idus	DIN 38412	Company
		(Golden orfe)		data

# Toxicity to daphnia [mg/l]

# METHYL METHACRYLATE

Value	Test criterion	Test species	Exposure duration	Measuring method	Source
69	EC50	Daphnia magna (Water flea)	48H	OECD Test Guideline 202	Company data

#### **2-ETHYLHEXYL ACRYLATE**

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

# 2,2'-[(4-METHYLPHENYL)IMINO]BISETHANOL

Value	Test criterion	Test species	Exposure duration	Measuring method	Source
48	EC50	Daphnia magna (Water flea)	48H	OECD Test Guideline 202	Company data

# FATTY ACIDS, C18-UNSTAD., DIMERS REACTION PRODUCTS WITH N,N-DIMETHYL-1,3-PROPANEDIAMINE AND 1,3-PROPANEDIAMINE

Value	Test criterion	Test species	Exposure duration	Measuring method	Source
>101	EC50	Daphnia	48H	OECD Test Guideline	Company
		magna (Water flea)		202	data

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

#### **METHYL METHACRYLATE**

Value	Test criterion	Test species	Exposure duration	Measuring method	Source
110	EC50	Selenastrum capricornutum	72H	OECD Test Guideline 201	Company data
		(green algae)			

#### 2-ETHYLHEXYL ACRYLATE

Value	Test criterion	Test species	Exposure duration	Measuring method	Source
1,71	ErC50	Desmodesmus subspicatus	72H	OECD Test Guideline 201	Company data

# 2,2'-[(4-METHYLPHENYL)IMINO]BISETHANOL

Value	Test criterion	Test species	Exposure duration	Measuring method	Source
>101	ErC50	Pseudokirchneriella subcapitata	72H	OECD Test Guideline 201	Company data

# FATTY ACIDS, C18-UNSTAD., DIMERS REACTION PRODUCTS WITH N,N-DIMETHYL-1,3-PROPANEDIAMINE AND 1,3-PROPANEDIAMINE

Value	Test criterion	Test species	Exposure duration	Measuring method	Source
>101	ErC50	Pseudokirchneriella	72H	OECD Test Guideline	Company
		subcapitata		201	data

# NOEC (Fish) [mg/l]

#### METHYL METHACRYLATE

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

# NOEC (Daphnia) [mg/l]

#### **METHYL METHACRYLATE**

	WIETHE WETHACKTEATE				
Value	Test species	Measuring method	Source		
37	Daphnia magna (Water	OECD Test Guideline 202	Company		
	flea)		data		

#### NOEC (Algae) [mg/l]

#### 2-ETHYLHEXYL ACRYLATE

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

# 12.2 Persistence and degradability

# **Biodegradability**

#### **METHYL METHACRYLATE**

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

#### 2-ETHYLHEXYL ACRYLATE

Value	Source
Readily biodegradable.	Company data

#### 2,2'-[(4-METHYLPHENYL)IMINO]BISETHANOL

Value	Source
Not readily biodegradable	Company data

# FATTY ACIDS, C18-UNSTAD., DIMERS REACTION PRODUCTS WITH N,N-DIMETHYL-1,3-PROPANEDIAMINE AND 1,3-PROPANEDIAMINE

Value	Measuring method	Source
Not readily biodegradable	OECD 301	Company
		data

# 12.3. Bioccumulative potential

#### **Bioaccumulation**

#### **METHYL METHACRYLATE**

Value	Source	
Does not bioaccumulate	Company data	

#### 2-ETHYLHEXYL ACRYLATE

Value	Source
Bioaccumulation slight, log Pow 4,64	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

No data available.

**SECTION 13: Disposal considerations** 

13.1. Waste treatment methods

**Disposal considerations** According to the European Waste Catalogue, Waste Codes are not product specific,

but application specific. The following Waste Codes are only suggestions:

Waste Code 08 04 11 \* waste paint and varnish containing organic solvents or other dangerous

materials.

**Uncleaned empty packaging** The return of packaging materials is regulated by the Interseroh system.

# **SECTION 14: Transport information**

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	1263	1263	1263
14.3 Transport hazard class(es)	3	3	3
14.4 Packaging group	III	III	III
14.2 Description of the goods	PAINT	PAINT	PAINT
14.2 UN proper shipping name	PAINT	PAINT	PAINT
Remarks	(including paint, lacquer, Enamel, stain, shellac, Varnish, polish, liquid Filler and liquid Lacquer base)	(including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base)	(including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)
Labels	FLAMMABLE LIQUID	FLAMMABLE LIQUID	FLAMMABLE LIQUID
Risk No.	30		•
Category	3		4
Factor	1	14 / 12 / 1	
Classification Code	F1	7 7 1	
SP 640	640E		2 1/ 1/ 7-
Tunnel restriction code	D/E		
EmS		F-E;_S-E	
Stowage category		A	

14.7. Transport in bulk according to Annex II of MARPOL3/78 and the IBC Code

Not relevant

#### **SECTION 15: Regulatory information**

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

Additionally, observe any national regulations.

#### Classification in compliance with the industrial Safety Regulations

Flammable.

GISCODE RMA10 MAL-Code 3-5

#### 15.2. Chemical safety assessment

No data available

#### **SECTION 16: Other information**

**Relevant H-phrases** H225: Highly flammable liquid and vapour.

H302: Harmful if swallowed. H315: Causes skin irritation.

H317: May cause an allergic skin reaction. H318: Causes serious eye damage H335: May cause respiratory irritation.

H412: Harmful to aquatic life with long lasting effects.

Wording of the hazard classes Flam. Liq.: Flammable liquid

STOT SE: Specific target organ toxicity - single exposure

Skin Irrit.: Skin irritation Skin Sens.: Skin sensitization

Aquatic Chronic: Hazardous to the aquatic environment

Acute Tox.: Acute toxicity Eye Dam.: Serious eye damage

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

Classification	Evaluation	
Flam. Liq. 2; H225	Calculated	
Skin Irrit. 2; H315	Calculated	/ -
Skin Sens. 1; H317	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.



#### **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

Product Name UltraCrack L270 MMA

**Product Inclusion** Part.2 of this document covers MMA Resin Peroxide Only.

Container Size Variable

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

Identified Uses Hardener

**Uses advised against**No specific uses advised against are identified.

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

**Supplier** Meon Ltd.

Railside

Northarbour Spur Portsmouth PO6 3TU

+44 (0) 23 9220 0606 mail@meonuk.com

# 1.4. Emergency Telephone Number

**Emergency telephone** +44 (0) 808 118 1922

#### **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

# Classification according to regulation EC1272/2008 and amendments

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







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).

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

#### 3.2 Mixtures

Ingredient	N°CAS N° EC N° Enregistrement 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  GHS01 GHS02 GHS07 Dgr	45.0 – 50.0 % By weight

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

**General advice** If symptoms persist, call a doctor.

**In case of inhalation:** Remove to fresh air. Call a doctor immediately.

**In case of skin contact:** Wash off immediately with soap and plenty of water.

In the case of eye contact:

In the case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

In case of ingestion: Rinse mouth. Do NOT induce vomiting. Call a doctor immediately.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media Carbon dioxide (CO2), Dry powder, Dry sand, Water spray, Foam.

Extinguishing media which must

Halons

not be used for safety reasons

# 5.2. Special hazards arising from the substance or mixture

Carbon dioxide (CO2), 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.

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 Organic peroxides Type: OP II

and containers:

Revision date: 11/04/2022

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/m³	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	1

# 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	1 4

# 8.2. Exposure controls

**Respiratory protection**Use the indicated respiratory protection if the occupational exposure limit

is exceeded and/or in case of product release (dust).

**Remarks** Recommended Filter type: P 1

Hand protection Butyl-rubber Nitriles

**Eye Protection** Tightly sealed goggles.

**Engineering measures** Ensure adequate ventilation, especially in confined areas.

#### **SECTION 9: Physical and Chemical Properties**

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

Appearance Solid Colour White

Odour Characteristic
Odour Threshold Not determined.
pH Not applicable.
Melting point/freezing point Not applicable.
Initial boiling point and boiling Not applicable.

range

Flash point Not applicable. Evaporation rate Not applicable.

**Flammability** Heating may cause fire.

**Explosion limits** Not applicable.

Vapour pressureNot applicable.Relative vapour densityNot applicable.Density1,23 g/cm³Water solubilityNot determined.

Partition coefficient: noctanol/

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.

Revision date: 11/04/2022

# 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	Company data
			Guideline 416	

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	4 Hours	Company data
			Guideline 403		

# 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, revesibel innerhalb 21	Rabbit	OECD Test Guideline	Company data
Tage		405	

# **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	Company data
experiments.	

# Mutagenicity

# **Ethylene dibenzoate**

Value	Source
No known effect	Company data

#### Dibenzoyl peroxide

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

#### **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

- 1.0 cm - c / . p cm - cm - c			
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	OECD Test	96 h	Company data
		rerio (zebra	Guideline 203		
		fish)			

Dibenzoyl peroxide

Value	Test criterion	Test species	Measuring method	Exposure duration [h]	Source
0,0602 mg/l	LC50	Oncorhynchus mykiss (rainbow	OECD Test Guideline 203	96 h	Company data
		trout)	1		

# Toxicity to daphnia [mg/l]

**Ethylene dibenzoate** 

Value	Test criterion	Test species	Measuring	Exposure	Source
			method	duration [h]	
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	OECD Test Guideline 202	48 h	Company data
		flea)			

# Toxicity to algae [mg/l]

**Ethylene dibenzoate** 

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

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	Company data
7 \		Guideline	71
		201	

# NOEC (daphnia) [mg/l]

# **Ethylene dibenzoate**

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

# NOEC (algae) [mg/l]

# Ethylene dibenzoate

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

# 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

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

# 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,	Company data
bioaccumulating nor toxic (PBT).	

Dibenzovl peroxide

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

# 12.6 Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

**Disposal considerations** According to the European Waste Catalogue, Waste Codes are not

product

specific, but application specific. The following Waste Codes are only

Waste Code suggestions:

16 09 03\* peroxides, e.g., hydrogen peroxide

**Uncleaned empty packaging** 

The return of packaging materials is regulated by the Interseroh

system.

#### **SECTION 14: Transport information**

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

#### 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]

Classification	Evaluation
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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