

**Spectrum UltraLine L210 MMA Paint**  
**[Part.1 – Base | Part.2 – Catalyst]**



## **SAFETY DATA SHEET – Part.1**

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) 2015/830

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

#### **1.1. Product identifier**

<b>Product Name</b>	<b>Spectrum UltraLine L210 MMA Paint</b>
<b>Product Inclusion</b>	Part.1 of this document covers all colour variants in the Spectrum UltraLine L210 MMA Based Paint range – Base only.
<b>Container Size</b>	8kg

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

<b>Identified Uses</b>	Base for road coating based on methacrylate resins paints and varnishes. For professional user/industrial user only.
<b>Uses advised against</b>	All uses not specified in this section or in section 7.3.

#### **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 of this product has been carried out in accordance with CLP Regulation (EC) no. 1272/2008**

Flam. Liq. 2: Flammable liquids, Category 2, H225

Skin Irrit. 2: Skin irritation, Category 2, H315

Skin Sens. 1: Sensitisation, skin, Category 1, H317

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### 2.2. Label Elements

CLP Regulation (EC) no. 1272/2008

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

H225 - Highly flammable liquid and vapour

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

Precautionary statement(s)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P233: Keep container tightly closed.

P264: Wash thoroughly after use.

P280: Wear protective gloves/protective clothing/respiratory protection/eye protection/protective footwear.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P370+P378: In case of fire: Use ABC powder extinguisher to put it out.

P403+P235: Store in a well-ventilated place. Keep cool.

P501: Dispose of the contents and/or its container in line with regulations on dangerous waste or packaging and waste packaging respectively.

Supplementary information

Contains 2,2'- ethylenedioxydiethyl dimethacrylate, Methyl methacrylate, n-butyl acrylate, Reaction mass of 2,2'-[(4-methylphenyl) imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino].

EUH211: Warning! Hazardous respirable droplets may be formed when sprayed.

Do not breathe spray or mist.

Substances that contribute to the classification

n-butyl acrylate (CAS: 141-32-2); Methyl methacrylate (CAS: 80-62-6); 2,2'- ethylenedioxydiethyl dimethacrylate (CAS: 109-16-0)

### 2.3. Other hazards

Product fails to meet PBT/vPvB criteria.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Non-applicable

### 3.2. Mixtures





Mixture composed of additives, pigments and resins

### Components

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification		Concentration
CAS: 141-32-2	n-butyl acrylate <sup>(1)</sup>		5 - <15 %
	Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335 – Warning  GHS02 GHS07 Wng		

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CAS: 80-62-6	<b>Methyl methacrylate<sup>(1)</sup></b> Flam. Liq. 2: H225; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335 – Danger		5 - <15 %
	<b>GHS02</b> <b>GHS07</b> <b>Dgr</b>		
CAS: 109-16-0	<b>2,2'-ethylenedioxydiethyl dimethacrylate<sup>(1)</sup></b> Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335 - Warning		1 - <5 %
CAS: 38668-48-3	<b>1,1'-(p-tolylimino)dipropan-2-ol</b> Acute Tox. 2: H300; Aquatic Chronic 3: H412; Eye Irrit. 2: H319 - Danger		<0.5 %
CAS: Not applicable	<b>Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy) ethyl](4-methylphenyl)amino]-</b> Acute Tox. 4: H302; Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger		<0.5 %

<sup>(1)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830  
To obtain more information on the risk of the substances consult sections 11, 12 and 16.

#### SECTION 4: First aid measures

As a general rule, in case of doubt or if symptoms persist, always call a doctor. NEVER induce swallowing by an unconscious person.

##### 4.1. Description of first aid measures

###### General information

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

###### Inhalation

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

###### Ingestion/Aspiration

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

###### Skin contact

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

###### Eye contact

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

##### 4.2. Most important symptoms and effects, both acute and delayed

Acute and delayed effects are indicated in sections 2 and 11.

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

Not applicable.

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

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Flammable. Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

#### **5.1. Extinguishing media**

**Suitable extinguishing media** If possible, use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO<sub>2</sub>).

**Unsuitable extinguishing media** IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

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

**Specific hazards** As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

#### **5.3. Advice for firefighters**

**Advice or firefighters** Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit) in accordance with Directive 89/654/EC.

**Additional provisions** Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

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

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

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8).

Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

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

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

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

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

#### **6.4. Reference to other sections**

See sections 8 and 13.

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### SECTION 7: Handling and storage

Requirements relating to storage premises apply to all facilities where the mixture is handled.

#### 7.1. Precautions on safe handling

##### Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

##### Technical recommendations for the prevention of fires and explosions

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibers, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

##### Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

##### Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3).

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

##### Technical measures for storage

Minimum Temp.: 5 °C  
 Maximum Temp.: 30 °C  
 Maximum Time.: 6 months

##### General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5.

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

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Substances whose occupational exposure limits have to be monitored in the work environment.

Identification	Environmental limits		
n-butyl acrylate CAS: 141-32-2    EC: 205-480-7	WEL (8h)	1 ppm	5 mg/m <sup>3</sup>
	WEL (15 min)	5 ppm	26 mg/m <sup>3</sup>
Methyl methacrylate	WEL (8h)	50 ppm	208 mg/m <sup>3</sup>

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CAS: 80-62-6	EC: 201-297-1	WEL (15 min)	100 ppm	416 mg/m <sup>3</sup>
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**DNEL (Workers):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
<b>n-butyl acrylate</b> CAS: 141-32-2 EC: 205-480-7	Oral	Not applicable	Not applicable	Not applicable	Not applicable
	Dermal	Not applicable	Not applicable	Not applicable	Not applicable
	Inhalation	Not applicable	Not applicable	Not applicable	11 mg/m <sup>3</sup>
<b>Methyl methacrylate</b> CAS: 80-62-6 EC: 201-297-1	Oral	Not applicable	Not applicable	Non-applicable	Not applicable
	Dermal	Not applicable	Not applicable	13.67 mg/kg	Not applicable
	Inhalation	Not applicable	416 mg/m <sup>3</sup>	348.4 mg/m <sup>3</sup>	208 mg/m <sup>3</sup>
<b>2,2'-ethylenedioxydiethyl dimethacrylate</b> CAS: 109-16-0 EC: 203-652-6	Oral	Not applicable	Not applicable	Non-applicable	Not applicable
	Dermal	Not applicable	Not applicable	13.9 mg/kg	Not applicable
	Inhalation	Not applicable	Not applicable	48.5 mg/m <sup>3</sup>	Not applicable
<b>1,1'-(p-tolylimino)dipropan-2-ol</b> CAS: 38668-48-3 EC: 254-075-1	Oral	Not applicable	Not applicable	Not applicable	Not applicable
	Dermal	Not applicable	Not applicable	0.7 mg/kg	Not applicable
	Inhalation	Not applicable	Not applicable	2.47 mg/m <sup>3</sup>	Not applicable

**DNEL (General population):**

Identification		Short exposure		Long exposure	
		Systemic	Local		
<b>Methyl methacrylate</b> CAS: 80-62-6 EC: 201-297-1	Oral	Not applicable	Not applicable	8.2 mg/kg	Not applicable
	Dermal	Not applicable	Not applicable	8.2 mg/kg	Not applicable
	Inhalation	Not applicable	208 mg/m <sup>3</sup>	74.3 mg/m <sup>3</sup>	104 mg/m <sup>3</sup>
<b>2,2'-ethylenedioxydiethyl dimethacrylate</b> CAS: 109-16-0 EC: 203-652-6	Oral	Not applicable	Not applicable	8.33 mg/kg	Not applicable
	Dermal	Not applicable	Not applicable	8.33 mg/kg	Not applicable
	Inhalation	Not applicable	Not applicable	14.5 mg/m <sup>3</sup>	Not applicable
<b>1,1'-(p-tolylimino)dipropan-2-ol</b> CAS: 38668-48-3 EC: 254-075-1	Oral	Not applicable	Not applicable	0.25 mg/kg	Not applicable
	Dermal	Not applicable	Not applicable	Not applicable	Not applicable
	Inhalation	Not applicable	Not applicable	Not applicable	Not applicable

**PNEC:**

Identification					
<b>n-butyl acrylate</b> CAS: 141-32-2 EC: 205-480-7	STP	3.5 mg/L	Fresh water	0.003 mg/L	
	Soil	1 mg/kg	Marine water	0 mg/L	
	Intermittent	0.011 mg/L	Sediment (Fresh water)	0.034 mg/kg	
	Oral	Not applicable	Sediment (Marine water)	0.003 mg/kg	
<b>Methyl methacrylate</b> CAS: 80-62-6 EC: 201-297-1	STP	10 mg/L	Fresh water	0.94 mg/L	
	Soil	1.48 mg/kg	Marine water	0.094 mg/L	
	Intermittent	0.94 mg/L	Sediment (Fresh water)	10.2 mg/kg	

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	Oral	Not applicable	Sediment (Marine water)	0.102 mg/kg
<b>2,2'-ethylenedioxydiethyl dimethacrylate</b> CAS: 109-16-0 EC: 203-652-6	STP	1.7 mg/L	Fresh water	0.016 mg/kg
	Soil	0.027 mg/kg	Marine water	0.002 mg/L
	Intermittent	0.016 mg/L	Sediment (Fresh water)	0.185 mg/L
	Oral	Not applicable	Fresh water	0.018 mg/kg
<b>1,1'-(p-tolylimino)dipropan-2-ol</b> CAS: 38668-48-3 EC: 254-075-1	STP	199.5 mg/L	Marine water	0.017 mg/L
	Soil	0.023 mg/kg	Sediment (Fresh water)	0.002 mg/L
	Intermittent	0.17 mg/L	Sediment (Marine water)	0.163 mg/kg
	Oral	Not applicable	Fresh water	0.016 mg/kg

**8.2. Exposure controls**


**Personal protection measures**

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<UKCA marking>>. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.



All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

Pictogram	PPE	Remarks
 Mandatory respiratory tract protection	Filter mask for gases and vapours	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.
 Mandatory hand Protection	Protective gloves against minor risks	Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2004+A1:2010 and EN ISO 374-1:2016+A1:2018
 Mandatory face Protection	Panoramic glasses against splash/projections	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.
 Mandatory complete body protection	Antistatic and fireproof protective clothing	Limited protection against flames.

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 Mandatory foot protection	Safety footwear with antistatic and Heat resistant properties	Replace boots at any sign of deterioration.
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### Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash Stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

### Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

## SECTION 9: Physical and Chemical Properties

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

For complete information see the product datasheet

#### Appearance

Physical state at 20 °C	Liquid
Appearance	Viscous
Colour	White
Odour	Characteristic
Odour threshold	Not applicable *

#### Volatility

Boiling point at atmospheric pressure	≥0 - 200 °C
Vapour pressure at 20 °C	2254 Pa
Vapour pressure at 50 °C	10115.9 Pa (10.12 kPa)
Evaporation rate at 20 °C	Not applicable *

#### Product description

Density at 20 °C	2086.9 kg/m <sup>3</sup>
Relative density at 20 °C	2.037 – 2.137
Dynamic viscosity at 20 °C	Not applicable *
Kinematic viscosity at 20 °C	Not applicable *
Kinematic viscosity at 40 °C	>20.5 mm <sup>2</sup> /s
Concentration	Not applicable *
pH	Not applicable *
Vapour density at 20 °C	Not applicable *
Partition coefficient n-octanol/water at 20 °C	Not applicable *
Solubility in water at 20 °C	Not applicable *
Solubility properties	Not applicable *
Decomposition temperature	Not applicable *
Melting point/Freezing point	Not applicable *
Explosive properties	Not applicable *



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<b>Oxidising properties</b>	Not applicable *
<b>Flammability</b>	
Flash point	21 °C
Flammability (solid, gas)	Not applicable *
Autoignition temperature	292 °C
Lower flammability limit	Not available
Upper flammability limit	Not available
<b>Explosive</b>	
Lower explosive limit	Non-applicable*
Upper explosive limit	Non-applicable*

### 9.2. Other information

Surface tension at 20 °C	Non-applicable*
Refraction index	Non-applicable*

\* Not relevant due to the nature of the product, not providing information property of its hazards.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

### 10.2. Chemical stability

Chemically stable under the conditions of storage, handling and use.

### 10.3. Possibility of hazardous reactions

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

### 10.4. Conditions to avoid

Applicable for handling and storage at room temperature

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

### 10.5. Incompatible materials

Acids	Water	Combustive materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

### 10.6. Hazardous decomposition products

Contains substances highly reactive and can auto-polymerize as a result of internal peroxide accumulation. The peroxides formed in these reactions are extremely shock- and heat-sensitive.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

The experimental information related to the toxicological properties of the product itself is not available.

### Dangerous health implications

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

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<b>Ingestion (acute effect)</b>	
<b>Acute toxicity</b>	Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for consumption. For more information see section 3.
<b>Corrosivity/Irritability</b>	The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
<b>Inhalation (acute effect)</b>	
<b>Acute toxicity</b>	Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.
<b>Corrosivity/Irritability</b>	Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.
<b>Contact with the skin and the eyes (acute effect)</b>	
<b>Contact with the skin</b>	Produces skin inflammation.
<b>Contact with the eyes</b>	Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.
<b>CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction)</b>	
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
<b>IARC</b>	Methyl methacrylate (3); n-butyl acrylate (3); N,N-dimethyl-p-toluidine (2B); Titanium dioxide (2B); Quartz (1 % < RCS < 10%) <sup>(1)</sup> ; Quartz (RCS < 1 %) <sup>(1)</sup>
<b>Mutagenicity</b>	Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
<b>Sensitizing effects</b>	
<b>Respiratory</b>	Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
<b>Cutaneous</b>	Prolonged contact with the skin can result in episodes of allergic contact dermatitis.
<b>Specific target organ toxicity (STOT) - single exposure</b>	Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.
<b>Specific target organ toxicity (STOT)-repeated exposure</b>	Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.
<b>Skin</b>	Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
<b>Other information</b>	Not applicable

### Specific toxicology information on the substances

Identification	Acute toxicity		Genus
<b>Methyl methacrylate</b> CAS: 80-62-6	LD50 oral	5000 mg/kg	Rat
	LD50 dermal	5000 mg/kg	Rabbit
	LC50 inhalation	29.8 mg/L (4 h)	Rat
<b>1,1'-(p-tolylimino)dipropan-2-ol</b>	LD50 oral	25 mg/kg	Rat

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CAS: 38668-48-3	LD50 dermal	Not applicable	
	LC50 inhalation	Not applicable	
<b>2,2'-ethylenedioxydiethyl dimethacrylate</b> CAS: 109-16-0 EC: 203-652-6	LD50 oral	10837 mg/kg	Rat
	LD50 dermal	Not applicable	
	LC50 inhalation	Not applicable	
<b>n-butyl acrylate</b> CAS: 141-32-2 EC: 205-480-7	LD50 oral	4000 mg/kg	
	LD50 dermal	Not applicable	
	LC50 inhalation	Not applicable	
<b>Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-</b> CAS: Non-applicable	LD50 oral	619 mg/kg	Rat
	LD50 dermal	Not applicable	
	LC50 inhalation	Not applicable	

**Acute Toxicity Estimate (ATE mix)**

	ATE mix	Ingredient(s) of unknown toxicity
Oral	>7227.49 mg/kg (Calculation method)	62.4 %
Dermal	>5000 mg/kg (Calculation method)	Not applicable
Inhalation	>20 mg/L (4 h) (Calculation method)	Not applicable

**SECTION 12: Ecological information**

The experimental information related to the ecotoxicological properties of the product itself is not available.

**12.1. Toxicity**

**Acute toxicity**

Identification	Acute toxicity	Species	Genus	
<b>n-butyl acrylate</b> CAS: 141-32-2	LC50	5.2 mg/L (96 h)	Salmo gairdneri	Fish
	EC50	230 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	5.5 mg/L (96 h)	Selenastrum capricornutum	Algae
<b>Methyl methacrylate</b> CAS: 80-62-6	LC50	191 mg/L (96 h)	Lepomis macrochirus	Fish
	EC50	69 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	170 mg/L (96 h)	Selenastrum capricornutum	Algae
<b>2,2'-ethylenedioxydiethyl dimethacrylate</b> CAS: 109-16-0	LC50	16.4 mg/L (96 h)	Danio rerio	Fish
	EC50	Not applicable		
	EC50	Not applicable		
<b>1,1'-(p-tolylimino)dipropan-2-ol</b> CAS: 38668-48-3	LC50	17 mg/L (96 h)	Brachydanio rerio	Fish
	EC50	28.8 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	245 mg/L (72 h)	Desmodesmus subspicatus	Algae
<b>Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-</b> CAS: Non-applicable	LC50	110 mg/L (96 h)	Cyprinus carpio	Fish
	EC50	48 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	110 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae

**Chronic toxicity**

Identification	Concentration	Species	Genus
<b>n-butyl acrylate</b>	NOEC	Not applicable	

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CAS: 141-32-2	NOEC	0.136 mg/L	Daphnia magna	Crustacean
<b>Methyl methacrylate</b> CAS: 80-62-6	NOEC	9.3 mg/L	Danio rerio	Fish
	NOEC	37 mg/L	Daphnia magna	Crustacean
<b>2,2'-ethylenedioxydiethyl dimethacrylate</b> CAS: 109-16-0	NOEC	Not applicable		
	NOEC	32 mg/L	Daphnia magna	Crustacean

**12.2. Persistence and degradability**

Identification	Degradability		Biodegradability	
<b>n-butyl acrylate</b> CAS: 141-32-2 EC: 205-480-7	BOD5	Not applicable	Concentration	100 mg/L
	COD	Not applicable	Period	14 days
	BOD5/COD	Not applicable	% Biodegradable	61.3 %
<b>Methyl methacrylate</b> CAS: 80-62-6 EC: 201-297-1	BOD5	Not applicable	Concentration	100 mg/L
	COD	Not applicable	Period	14 days
	BOD5/COD	Not applicable	% Biodegradable	94.3 %
<b>2,2'-ethylenedioxydiethyl dimethacrylate</b> CAS: 109-16-0 EC: 203-652-6	BOD5	Not applicable	Concentration	10 mg/L
	COD	Not applicable	Period	28 days
	BOD5/COD	Not applicable	% Biodegradable	85 %
<b>Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-</b> CAS: Non-applicable	BOD5	Not applicable	Concentration	18 mg/L
	COD	Not applicable	Period	28 days
	BOD5/COD	Not applicable	% Biodegradable	1.5 %

**12.3. Bioaccumulative potential**

Identification	Bioaccumulation potential	
<b>n-butyl acrylate</b> CAS: 141-32-2 EC: 205-480-7	BCF	37
	Pow Log	2.36
	Potential	Moderate
<b>Methyl methacrylate</b> CAS: 80-62-6 EC: 201-297-1	BCF	7
	Pow Log	1.38
	Potential	Low
<b>Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-</b> CAS: Non-applicable	BCF	
	Pow Log	2.22
	Potential	

**12.4. Mobility in soil**

Identification	Absorption/desorption		Volatility	
<b>n-butyl acrylate</b> CAS: 141-32-2 EC: 205-480-7	Koc	Not applicable	Henry	Not applicable
	Conclusion	Not applicable	Dry soil	Not applicable
	Surface tension	2.598E-2 N/m (25 °C)	Moist soil	Not applicable
<b>Methyl methacrylate</b> CAS: 80-62-6 EC: 201-297-1	Koc	Not applicable	Henry	Not applicable
	Conclusion	Not applicable	Dry soil	Not applicable
	Surface tension	2.551E-2 N/m (25 °C)	Moist soil	Not applicable

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<b>2,2'-ethylenedioxydiethyl dimethacrylate</b> CAS: 109-16-0 EC: 203-652-6	Koc	78	Henry	9.26E-6 Pa·m <sup>3</sup> /mol
	Conclusion	High	Dry soil	No
	Surface tension	Not applicable	Moist soil	No
<b>1,1'-(p-tolylimino)dipropan-2-ol</b> CAS: 38668-48-3	Koc	10	Henry	3.98E-5 Pa·m <sup>3</sup> /mol
	Conclusion	Very High	Dry soil	No
	Surface tension	Not applicable	Moist soil	No

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

Product fails to meet PBT/vPvB criteria.

**12.6. Other adverse effects**

Not described.

**SECTION 13: Disposal considerations**

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

**13.1. Waste treatment methods**

**Code** 08 01 11\*  
**Description** waste paint and varnish containing organic solvents or other hazardous substances  
**Waste class (Regulation (EU) No 1357/2014)** Dangerous

**Type of waste (Regulation (EU) No 1357/2014)** HP3 Flammable, HP4 Irritant — skin irritation and eye damage

**Waste management (disposal and evaluation)** Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

**Regulations related to waste management** In accordance with Annex II of Regulation (EC) No. 1907/2006 (REACH) the community or state provisions related to waste management are stated.  
 Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014.

**SECTION 14: Transport information**

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for Air Transport.

**14.1. UN number**

**ADR 2019 and RID 2019** UN1263  
**IMDG 38-16** UN1263  
**IATA/ICAO 2019** UN1263

**14.2. UN proper shipping name**

**ADR 2019 and RID 2019** PAINT  
**IMDG 38-16** PAINT  
**IATA/ICAO 2019** PAINT

## Spectrum UltraLine L210 MMA Paint [Part.1 – Base | Part.2 – Catalyst]

### 14.3. Transport hazard class(es)

ADR 2019 and RID 2019	3
IMDG 38-16	3
IATA/ICAO 2019	3
Transport Labels	



### 14.4. Packing group

ADR 2019 and RID 2019	II
IMDG 38-16	II
IATA/ICAO 2019	II

### 14.5. Environmental hazards

ADR 2019 and RID 2019	No
IMDG 38-16	No
IATA/ICAO 2019	No

### 14.6. Special precautions for user

ADR 2019 and RID 2019	
Physico-Chemical properties	See Section 9
IMDG 38-16	
Special regulations	367, 163
EmS code	F-E, S-E
Physico-Chemical properties	See Section 9
Limited quantities	5 L
Segregation group	Not applicable.
IATA/ICAO 2019	
Physico-Chemical properties	See Section 9

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

ADR 2019 and RID 2019	Not applicable.
IMDG 38-16	Not applicable.
IATA/ICAO 2019	Not applicable.

## **SECTION 15: Regulatory information**

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

Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH)  
Not applicable.

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date  
Not applicable.

Regulation (EC) 1005/2009, about substances that deplete the ozone layer  
Not applicable.

Article 95, REGULATION (EU) No 528/2012  
Not applicable.

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products  
Not applicable.

# Spectrum UltraLine L210 MMA Paint

## [Part.1 – Base | Part.2 – Catalyst]

Section	Description	Lower-tier requirements	Upper-tier requirements
P5c	Flammable liquids	5000	50000

### Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH)

Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

### Specific provisions in terms of protecting people or the environment

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

### Other legislation

The product could be affected by sectorial legislation.

## 15.2. Chemical safety assessment

### Chemical safety assessment

The supplier has not carried out evaluation of chemical safety.

## SECTION 16: Other information

### Legislation related to safety data sheets

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830).

### Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks

Not applicable.

### Texts of the legislative phrases mentioned in section 2

H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H225 - Highly flammable liquid and vapour

### Texts of the legislative phrases mentioned in section 3

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3.

### CLP Regulation (EC) no. 1272/ 2008

Eye Irrit. 2: H319 - Causes serious eye irritation  
Flam. Liq. 2: H225 - Highly flammable liquid and vapour  
Flam. Liq. 3: H226 - Flammable liquid and vapour  
Skin Irrit. 2: H315 - Causes skin irritation  
Skin Sens. 1: H317 - May cause an allergic skin reaction  
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Inhalation)  
STOT SE 3: H335 - May cause respiratory irritation

## Spectrum UltraLine L210 MMA Paint [Part.1 – Base | Part.2 – Catalyst]

<b>Classification procedure</b>	Skin Irrit. 2: Calculation method Skin Sens. 1: Calculation method Flam. Liq. 2: Calculation method (2.6.4.3)
<b>Advice related to training</b>	Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.
<b>Principal bibliographical sources</b>	<a href="http://echa.europa.eu">http://echa.europa.eu</a> <a href="http://eur-lex.europa.eu">http://eur-lex.europa.eu</a>
<b>Abbreviations and acronyms</b>	ADR: European agreement concerning the international carriage of dangerous goods by road IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand BOD5: 5-day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50 Log-POW: Octanol–water partition coefficient Koc: Partition coefficient of organic carbon

### *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.*



**Spectrum UltraLine L210 MMA Paint**  
**[Part.1 – Base | Part.2 – Catalyst]**



**SAFETY DATA SHEET – Part.2 of 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>	MMA Resin Peroxide
<b>Product Inclusion</b>	MMA Resin Peroxide – catalyst only.
<b>Container Size</b>	80g

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

<b>Identified Uses</b>	Hardener for road marking filler (3 components) Mix only the Catalyst Part B Respect the dosage Part B/hardener indicated by the supplier Professional use only
<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 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**

**Classification according to regulation EC1272/2008 and amendments**

Org. Perox. D Category D – H242  
SKIN Sens. 1 – Hazard category 1 – H317  
Eye Irrit. 2 – Hazard category 2 – H319  
Aquatic Acute. 1 – Hazard category 1 – H400  
Aquatic Chronic. 1 – Hazard. Category 1 – H410  
Repr. 1B – Hazard Category 1B – H360D

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**2.2. Label Elements**

Hazard pictograms



**Signal word**

Danger

**H-statement(s)**

H242 – Heating may cause a fire  
 H317 – May cause an allergic skin reaction  
 H319 – Causes serious eye irritation  
 H360D May damage the unborn child  
 H410 Very toxic to aquatic life with long lasting effects

**P-statement(s)**

P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
 P220 Keep away from strong acids, bases, heavy metals salts and other reducing substances.  
 P234 Keep only in original container.  
 P261 Avoid breathing dust/vapours.  
 P273 – Avoid release to the environment.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove cc lenses, if present and easy to do. Continue rinsing.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P501 - Dispose of contents/container in accordance with local and national regulation

**2.3. Other hazards**

The mixture component: dicyclohexyl phthalate CAS: 84-61-7 is on the Candidate List SVHC

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

SUBSTANCE [ ] MIXTURE [X]

**Dangerous component(s)**

Ingredient	CAS No. EC No. REACH No.	Index	Classification (EC) 1272/2008	Concentration
Dibenzoyl peroxide	94-36-0 202-327-6 01-2119511472-50-0001	617-008-00-0	Org. Perox. B – H241 Skin Sens. 1 – H317 Eye Irrit. 2 – H319 Aquatic Acute 1 – H400 (M=10)** Aquatic Chronic 1, H410; M=10  GHS01 GHS02 GHS07 Dgr	49-52.5%

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Diclohexyl phtalate	84-61-7 201-545-9 01-2119978223-34-0000	607-719-00-4	Skin Sens. 1, H317 Repr. 1B, H360D Aquatic Chronic 3, H412  <b>GHS08</b> <b>GHS07</b> <b>Dgr</b>	47.5-51%
silicon dioxide obtained by chemical transformation	112926-00-8 7631-86-9 231-545-4 01-2119379499-16-0000	-	Not classified	<0.5%

**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**

- In case of inhalation:** Move immediately subject to fresh air and keep him calm.  
Place the victim in a position where it can easily breathe.  
If breathing is difficult, seek medical attention.
- In case of skin contact:** Wash immediately with non-abrasive soap and plenty of water, at least 15 minutes. If skin irritation persists, consult a doctor.  
Wash contaminated clothing before re-using.
- In case of eye contact:** Rinse immediately with plenty of water for at least 15 minutes, holding eyelids open.  
If the person uses contact lenses, remove them with caution.  
Quickly consult a specialist if irritation persists.
- In case of ingestion:** Do not induce vomiting. Get medical attention immediately.

**4.2. Most important symptoms and effects, both acute and delayed**

Sensitization of the skin - redness, swelling, irritation of the eyes.  
Suspected of damaging fertility or the unborn child

**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** water spray, carbon dioxide, foam, sand.
- Extinguishing media which must not be used for safety reasons** Do not use halons.

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

- Specific hazards during firefighting** Contains substances that may result in explosion caused by heat  
The product decomposes in an explosive way from 60°C.  
The products of decomposition must be considered as potentially dangerous and precautions must be taken in consequences (mix of benzene, benzoic acid, biphenyl, phenyl benzoate, carbon dioxide).

**5.3. Advice for firefighters**

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**Special protective equipment for firefighting.** Wear full firefighting protective clothing and self-contained breathing apparatus.

Use water spray to keep fire-exposed containers cool.

Do not allow fire extinguishing water to contaminate surface or groundwater systems.

### Further information

Extinguish a small fire with powder or carbon dioxide then apply water to prevent re-ignition, containers and equipment located near the fire should be cooled with water; water used to extinguish fire should not get into the sewer system and waterways.

## SECTION 6: Accidental release measures

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

Wear protective clothing, protective gloves, eye protection and face. Do not let to contaminate the peroxide into drains and ground water; avoid hot, contact with combustible materials and flammable substances.

### 6.2. Environmental precautions

Do not let enter drains, surface and ground water and soil.

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

Protect drains. Collect material into sealable plastic containers and transported to the disposal site. Waste should NOT be closed.

### Reference to other sections

See section 8 for information on personal protection equipment

See section 13 for disposal information

## SECTION 7: Handling and storage

### 7.1. Precautions on safe handling

Weigh at temperature below than +25°C, do not mix directly with reducing agents, promoters, etc. Do not shake, do not throw, etc. Do not eat, drink or smoke in the production and storage. After work, wash your hands every time. Keep work clothing separately and do not take home. Do not use tools that cause sparks.

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

Keep away from sources of ignition, heat, light, at a temperature below +30°C.

Do not smoke, before and after contact with the peroxide wash your hands thoroughly; Only use of a suitable tool material (polyethylene, polypropylene, stainless steel).

### 7.3. Specific and uses

No information about other applications than the udder in subsection 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Regulation of the Minister of Labor and Social Policy of 12 June 2018 on the highest allowable concentrations and intensities of agents harmful to health in the work environment (Journal of Laws of 2018, item 1286 of 3 July 2018)

#### Dibenzoyl peroxide

NDS – 5 mg/m<sup>3</sup>

NDSCH – 10 mg/m<sup>3</sup>

TWA – 5 mg/m<sup>3</sup>

DNEL for workers (Chronic exposure by inhalation systemic) 39 mg/m<sup>3</sup>.

DNEL for workers (dermal chronic, systemic): 13,3 mg / kg body weight / day

DNEL for workers (dermal chronic, local): 34 µg/cm<sup>2</sup>

#### Dicyclohexyl phthalate

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NDS: not determined

NDSCh: not determined

DNEL for employee (chronic exposure by inhalation, systemic): 35.2 mg/m<sup>3</sup>

DNEL for workers (dermal chronic, systemic): 0.5 mg/kg/day

DNEL general population (chronic exposure by inhalation, systemic): 0.87 mg/m<sup>3</sup>

DNEL general population (chronic exposure through the skin, systemic): 0.25 mg/kg/day

DNEL general population (chronic oral, systemic): 0.25 mg/kg/day

### Silicon dioxide obtained by chemical transformation

total dust – NDS - 10 mg/m<sup>3</sup>

respirable dust- NDS - 2 mg/m<sup>3</sup>

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Make sure that working area is well ventilated. Explosion proof ventilation is recommended.

#### 8.2.2. Individual protection measure, such as personal protective equipment a

##### Eye/face protection

Use safety goggles or face protection from plexiglass.

##### Skin protection

Use appropriate protective antistatic clothing.

##### Hand protection

Use appropriate protective gloves of synthetic rubber like neoprene or butyl-rubber (thickness: 0.5 mm, rupture time > 8h).

##### Respiratory protection

Use short duration filter unit: Filter A

##### Thermal hazards

in normal work condition no thermal hazard

##### Hygiene at the work

General regulations on hygiene. Do not allow them to cross in the workplace environment, regulatory exposure limits. After working Remove contaminated clothing - not to take home. Do not eat, drink or smoke in the production and storage facilities. After work, wash your hands each time.

#### 8.2.3. Environmental exposure controls

Protect against the introduction into the municipal water and sewage system and watercourses.

#### Dibenzoyl peroxide:

PNEC freshwater: 0.02 µg / l

PNEC sea water: 0.002 µg / l

PNEC sediment-freshwater: 0.013 mg / kg

PNEC sediment-sea water: 0.001 mg / kg

PNEC soil: 0.002 mg / kg soil

PNEC STP: 0.35 mg / l

#### Dicyclohexyl phthalate:

PNEC: freshwater water: 0.00362 mg/l

PNEC sea water: 0.000362 mg/l

PNEC periodic release: 0.0362 mg/l

PNEC sediment- see water: 1.06 mg/kg

PNEC soil: 0.21 mg/kg

PNEC STP: 10 mg/

## SECTION 9: Physical and Chemical Properties

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

Appearance- Colour - Odour

Solid. Powdery – White - faint odour

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pH	Ca. 7
Boiling Point [°C]	Not determined.
Flash point	Not determined.
Evaporate Rate	Not determined.
Solubility in water	Insoluble
Flammable limits	Not applicable.
Vapour pressure	Not applicable.
Relative vapour density (related to air)	630kg/ m <sup>3</sup>
Gravity	620 kg/m <sup>3</sup> - 20°C
Partition coefficient (n-octanol/water)	Not determined.
Auto ignition temperature	Not determined.
Decomposition temperature	+55°C
Viscosity	Not applicable.
Explosive properties	One component (benzoyl peroxide is explosive)
Oxidising properties	Organic peroxide

### 9.2. Other information

Active oxygen content: 3.24 – 3.47%

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

sensitive to exothermic decomposition, decomposition is initiated by heat, contact with impurities (e.g. acids, heavy metal compounds, amines), friction or impact.

### 10.2. Chemical stability

under heat rapidly disintegrate.

### 10.3. Possibility of hazardous reactions

SADT (self accelerating decomposition temperature) possible at temperature above approximately +55°C, vapour may form explosive mixtures with air.

### 10.4. Conditions to avoid

Avoid high temperatures, light, pollution, rust.

### 10.5. Incompatible materials

Avoid contact with rust, copper, heavy metals, strong oxidizing agents, strong acids and strong bases

### 10.6. Hazardous decomposition products

hydrocarbons, derivatives of benzoic acid, irritating, corrosive, flammable gases may be formed in a fire or decomposition.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

The mixture was not tested, application of the conventional method from different substances which compose it.

#### Acute Toxicity

<b>Chemical name:</b>	DIBENZOYL PEROXIDE Oral: no adverse effect observed DNEL: 2000 mg/kg bw; LD50(mouse): > 2000 mg/kg Dermal: no study available
<b>Skin corrosion/irritation:</b>	No adverse effect observed – not irritant

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<b>Serious eye damage/irritation:</b>	Adverse effect observed – irritant
<b>Respiratory or skin sensitisation:</b>	Adverse effect observed – cause sensitisation by skin contact
<b>Germ cell mutagenicity:</b>	In vitro/in vivo - no adverse effect observed (negative result)
<b>Carcinogenicity:</b>	Oral, skin -no relevant information available Inhalation – no data available
<b>Reproductive toxicity:</b>	No data available
<b>STOT – single exposure</b>	Not classified based on available information
<b>STOT – repeated exposure</b>	Not classified based on available information
<b>Repeated dose toxicity</b>	Not classified for repeated dose toxicity oral: adverse effect observed NOAEL: 200 mg/kg bw/day (rat, chronic) skin (systemic): no adverse effect observed NOAEL: 833 mg/kg bw/day (rat, chronic) skin (local): adverse effect observed NOAEL: 0.17 mg/cm <sup>2</sup> (mouse, chronic) Inhalation (systemic, local): no data available
<b>Aspiration hazard</b>	Not classified based on available information.

<b>Chemical name:</b>	DICYCLOHEXYL PHTHALATE
<b>Acute toxicity:</b>	LD50 (rat):> 2000 mg / kg
<b>Skin corrosion/irritation:</b>	Not present – not classified
<b>Serious eye damage/irritation:</b>	Eyes – slight irritation – not classified
<b>Respiratory or skin sensitisation:</b>	Possible sensitization by skin contact
<b>Germ cell mutagenicity:</b>	Does not occur
<b>Carcinogenicity:</b>	Does not occur
<b>Reproductive toxicity:</b>	may damage the unborn child rat 240 ppm NOAEL
<b>STOT – single exposure</b>	No data available
<b>STOT – repeated exposure</b>	No data available
<b>Repeated dose toxicity</b>	NOAEL rat, 50 mg/kg bw../day
<b>Aspiration hazard</b>	No data available

<b>Acute toxicity:</b>	SILICON DIOXIDE OBTAINED BY CHEMICAL TRANSFORMATION oral - LD50 (rat):> 10000 mg / kg inhalation - LC0 (rat, 4h): 0.139 mg / l skin - LC50(rabbit): > 5000 mg / kg
<b>Skin corrosion/irritation:</b>	Not present – not classified
<b>Serious eye damage/irritation:</b>	Not present – not classified
<b>Respiratory or skin sensitisation:</b>	Not present – not classified
<b>Germ cell mutagenicity:</b>	Does not occur
<b>Carcinogenicity:</b>	Does not occur
<b>Reproductive toxicity:</b>	Does not occur
<b>STOT – single exposure</b>	No data available
<b>STOT – repeated exposure</b>	No data available
<b>Repeated dose toxicity</b>	No data available
<b>Aspiration hazard</b>	No data available

**Spectrum UltraLine L210 MMA Paint**  
**[Part.1 – Base | Part.2 – Catalyst]**

**SECTION 12: Ecological information**

The mixture was not tested, application of the conventional method from different substances which compose it.

**12.1. Toxicity**

Substance(s)			EC50	CL50	LC50	Species
Dibenzoyl peroxide - factor M = 10	NOEC	0.110 mg/l	0.0765 mg/l		0.110 mg/l	Daphnia magna (48h)
	NOEC	0.0602 mg/l	0.0602 mg/l			Fish (96h)
	NOEC	0.0711 mg/l	0.0711 mg/l			Algae (72h)
	NOEC	35 mg/l	35 mg/l			Bacteria (0.5h)
Dicyclohexyl Phthalate			2mg/l acute toxic			Daphnia magna (48h)
	NOEC	0.679 mg/l chronic toxic				Daphnia magna (21 days)
					>2 mg/l	Fish (96h)
					0.06mg/l	Algae (72h)

**12.2. Persistence and degradability**

DIBENZOYL PEROXIDE:

It is hydrolytically unstable under basic conditions, acidic and neutral. Benzoic acid is the major compound produced by the decomposition during hydrolysis.

DICYCLOHEXYL PHTHALATE:

readily biodegradable - 91% - 28 days

**12.3. Bioaccumulative potential**

DIBENZOYL PEROXIDE:

Log Kow = 3.2 indicates a low probability of bioaccumulation; readily biodegradable

DICYCLOHEXYL PHTHALATE:

Potential low

Ig Pow 4.82 (25oC)

BCF: 85 – 90

**12.4. Mobility in soil**

DIBENZOYL PEROXIDE:

Koc = 6310 at temp. 20oC

DICYCLOHEXYL PHTHALATE:

substance is insoluble

log Koc=3.46 w temp. 20oC

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

This product does not contain any BPT or vPvB substance

**12.6. Other adverse effects**

No data available.




**Spectrum UltraLine L210 MMA Paint**  
**[Part.1 – Base | Part.2 – Catalyst]**

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Spilled products collect for recycling. The product expired - for recycling. Waste code 16 03 05\* "organic wastes containing dangerous substances". The product may be disposed of by incineration. Burning should be done in a location away from buildings and industrial facilities in a specialized furnace to burn waste chemicals. Packaging of the product be disposed of as hazardous waste code 15 01 10\* "Packaging containing residues of or contaminated by dangerous ..."

**SECTION 14: Transport information**

	ADR / RID	IMDG	IATA
<b>14.1 N° ONU</b>		3106	
<b>14.2 UN proper shipping name</b>	PEROXYDE ORGANIQUE de type D, solide (Dibenzoyl peroxyde)		
<b>14.3 Transport hazard classe label</b>	5.2 		
<b>14.4 Packing Group</b>	Non-applicable	Non-applicable	Non-applicable
<b>14.5 Dangerous for Environment</b>	Yes	Yes	Yes
<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 ans IBC code)</b>	Not authorized for carriage in bulk		

**SECTION 15: Regulatory information**

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

Regulation No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation).

European Agreement Concerning the International Carriage of Dangerous Goods by Road, 2019

Candidate List SVHC, updated on 16/01/2020:

There is the component of the mixture on the list - Dicyclohexyl phthalate CAS: 84-61-7

**15.2 Chemical safety assessment**

Data not available.

**SECTION 16: Other information**

**Relevant H & R phrases from section 3**

H241 Heating may cause a fire or explosion

H317 May cause an allergic skin reaction

H319 Irritating to eyes

H360D May damage the unborn child

H400 Very toxic to aquatic organisms

H410 Very toxic to aquatic life with long lasting effects

## Spectrum UltraLine L210 MMA Paint [Part.1 – Base | Part.2 – Catalyst]

H412 Harmful to aquatic life with long lasting effects

### Abbreviations and acronyms

Explanation of abbreviations / acronyms

BCF – Bio Concentration Factor

DNEL - derived dose level (concentration) at which no observed adverse effect level [mg/kg, mg/l]

PNEC - predicted concentrations do not cause changes in the environment [mg/kg, mg/l]

NOEC - the highest dose, or concentration of a toxic substance at which no adverse effect is observed in its operation.

NOAEL - no observable adverse effect level

NDS Exposure Limit - the average weighted concentration, the impact on the employee, during an 8-hour daily and average weekly working time laid down in the Labour Code, the period of its activity should not cause negative changes in its state of health and in the health of future generations.

NDSch - Maximum Acceptable Concentrations Momentarily - the average concentration that should not cause adverse changes in the health of the worker, whether in the workplace no longer than 15 minutes and not more than two times during the work shift, with an interval of not less than one hour.

Training: Those involved in trading a hazardous substance should be trained in the handling, safety and hygiene.

Drivers should be trained and obtain proper certification in accordance with the requirements of ADR.

### Disclaimer

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