

Spectrum UniPrime L257 MMA Concrete Primer
[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

Product Name	Spectrum UniPrime L257 MMA Concrete Primer
Product Inclusion	Part. 1 of this document covers the Spectrum UniPrime L257 MMA Concrete Primer - Base only.
Container Size	7kg

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

Identified Uses	MMA Primer for concrete and new asphalt surfaces. For professional user/industrial user only.
Uses advised against	All uses not specified in this section or in section 7.3.

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
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1.4. Emergency Telephone Number

Emergency telephone	+44 (0) 808 118 1922
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP Regulation (EC) no. 1272/2008

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

Eye Irrit. 2: Eye irritation, Category 2, H319
Flam. Liq. 2: Flammable liquids, Category 2, H225
Skin Irrit. 2: Skin irritation, Category 2, H315
Skin Sens. 1B: Sensitisation, skin, Category 1B, H317
STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335

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2.2. Label Elements

CLP Regulation (EC) no. 1272/2008

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

Eye Irrit. 2: H319 - Causes serious eye irritation
Flam. Liq. 2: H225 - Highly flammable liquid and vapour
Skin Irrit. 2: H315 - Causes skin irritation
Skin Sens. 1B: H317 - May cause an allergic skin reaction
STOT SE 3: H335 - May cause respiratory irritation

Precautionary statement(s)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P302+P352 - IF ON SKIN: Wash with plenty of water
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P370+P378 - In case of fire: Use ABC powder extinguisher to extinguish
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P501 - Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively

Supplementary information

Contains 4,4'-Isopropylidendiphenol, Polymer Mit 2,2-Bis(p-(2,3-Epoxypropoxy)Phenyl)Propan, Methyl methacrylate, n-butyl acrylate.

Substances that contribute to the classification

Methyl methacrylate (CAS: 80-62-6); 4,4'-Isopropylidendiphenol, Polymer Mit 2,2-Bis(p-(2,3-Epoxypropoxy)Phenyl)Propane (CAS: 25036-25-3); Reaction mass of ethylbenzene and xylene; n-butyl acrylate (CAS: 141-32-2)

Acute Toxicity Estimate (ATE mix)

16.61 % (oral), 57.92 % (dermal), 67.56 % (inhalation) of the mixture consists of ingredient(s) of unknown toxicity.

2.3. Other hazards

Product fails to meet PBT/vPvB criteria.

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SECTION 3: Composition/information on ingredients

3.1. Substances

Non-applicable




3.2. Mixtures

Chemical description



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	Identification
CAS: 80-62-6 EC: 201-297-1 Index: 607-035-00-6 REACH 01-2119452498-28-XXXX	Methyl methacrylate⁽¹⁾			10 - <20 %
	Regulation1272/2008	Flam. Liq. 2: H225; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335 – Danger GHS02 GHS07 Dgr		
CAS: Not applicable	4,4'-Isopropylidendiphenol, Polymer Mit 2,2-Bis(p-(2,3-Epoxypropoxy)Phenyl)Propane			5 - <15 %
	Regulation1272/2008	Skin Sens. 1: H317 - Warning		
CAS: 141-32-2 EC: 205-480-7 Index: 607-062-00-3 REACH 01-2119453155-43-XXXX	n-butyl acrylate⁽¹⁾			5 - <15 %
	Regulation1272/2008	Acute Tox. 4: H332; Aquatic Chronic 3: H412; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1B: H317; STOT SE 3: H335 – Warning GHS02 GHS07 Wng		

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CAS: 100-41-4 EC: 202-849-4 Index: 601-023-00-4 REACH 01-2119489370-35-XXXX	Reaction mass of Ethylbenzene⁽²⁾ and Xylene			1 - <5 %
	Regulation1272/2008	Acute Tox. 4: H332; Asp. Tox. 1: H304; Flam. Liq. 2: H225; STOT RE 2: H373 – Danger GHS02 GHS07 GHS08 Dgr		
CAS: 99-97-8 EC: 202-805-4 Index: 612-056-00-9 REACH 01-2119937766-23-XXXX	N,N-dimethyl-p-toluidine⁽¹⁾			<0.5 %
	Regulation1272/2008	Acute Tox. 3: 301+H311+H331; Aquatic Chronic 3: H412; STOT RE 2: H373 – Danger GHS06 GHS08 Dgr		

⁽¹⁾ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830

⁽²⁾ Substance with a Union workplace exposure limit

To obtain more information on the hazards of the substances consult sections 8, 11, 12, 15 and 16.

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

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	Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.
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.

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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.

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

Non-applicable.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media If possible, use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO₂).

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

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

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.

SECTION 6: Accidental release measures

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.

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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.

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 94/9/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.: 25 °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.

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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		
Methyl methacrylate CAS: 80-62-6	IOELV (8h)	50 ppm	208 mg/m ³
	IOELV (STEL)	100 ppm	416 mg/m ³
n-butyl acrylate CAS: 141-32-2	IOELV (8h)	1 ppm	5 mg/m ³
	IOELV (STEL)	5 ppm	26 mg/m ³

Biological limit values:

BIOLOGICAL MONITORING GUIDANCE VALUES (BMGVs) – EH40/2005

Identification	Environmental limits		
Reaction mass of ethylbenzene and xylene CAS: Not applicable	1030 mg/g (NULL)	Methyl hippuric acid in urine	Post shift

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Methyl methacrylate CAS: 80-62-6 EC: 201-297-1	Oral	Not applicable	Not applicable	Not applicable	Not applicable
	Dermal	Not applicable	Not applicable	13.67 mg/kg	Non-applicable
	Inhalation	Not applicable	416 mg/m ³	348.4 mg/m ³	208 mg/m ³
Reaction mass of ethylbenzene and xylene CAS: Non-applicable EC: 905-588-0	Oral	Not applicable	Not applicable	Not applicable	Not applicable
	Dermal	Not applicable	Not applicable	212 mg/kg	Not applicable
	Inhalation	442 mg/m ³	442 mg/m ³	221 mg/m ³	221 mg/m ³
n-butyl acrylate 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 ³
N,N-dimethyl-p-toluidine CAS: 99-97-8 EC: 202-805-4	Oral	Not applicable	Not applicable	Not applicable	Not applicable
	Dermal	Not applicable	Not applicable	0.694 mg/kg	Not applicable
	Inhalation	Not applicable	Not applicable	1.224 mg/m ³	Not applicable

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Methyl methacrylate CAS: 80-62-6 EC: 201-297-1	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	8.2 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	74.3 mg/m ³	104 mg/m ³
Reaction mass of ethylbenzene and xylene CAS: Non-applicable EC: 905-588-0	Oral	Non-applicable	Non-applicable	1.6 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	15 mg/m ³	Non-applicable
	Oral	Non-applicable	Non-applicable	2.372505263mg/kg	Non-applicable

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N,N-dimethyl-p-toluidine CAS: 99-97-8 EC: 202-805-4	Dermal	Non-applicable	Non-applicable	0.292521739mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0.3364 mg/m ³	Non-applicable

PNEC:

Identification				
Methyl methacrylate 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
	Oral	Not applicable	Sediment (Marine water)	0.102 mg/kg
Reaction mass of ethylbenzene and xylene CAS: Non-applicable EC: 905-588-0	STP	6.58 mg/L	Fresh water	0.327 mg/L
	Soil	2.31 mg/kg	Marine water	0.327 mg/L
	Intermittent	0.327 mg/L	Sediment (Fresh water)	12.46 mg/kg
	Oral	Not applicable	Sediment (Marine water)	12.46 mg/kg
n-butyl acrylate 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
N,N-dimethyl-p-toluidine CAS: 99-97-8 EC: 202-805-4	STP	1.36 mg/L	Fresh water	0.014 mg/L
	Soil	20.365 mg/kg	Marine water	0.001 mg/L
	Intermittent	0.137 mg/L	Sediment (Fresh water)	48.245 mg/kg
	Oral	Not applicable	Sediment (Marine water)	48.245 mg/kg


8.2. Exposure controls

General safety and hygiene measures in the workplace

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. 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.

Respiratory protection

Pictogram	PPE	Remarks
 Mandatory respiratory tract protection	Filter mask for gases, vapours and particles	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.


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Specific protection for the hands



Pictogram	PPE	Remarks
 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 and EN 374.

As the product is a mixture of several substances, the resistance of the glove material cannot be predicted in advance with total reliability and has therefore to be checked prior to the application.



Ocular and facial protection

Pictogram	PPE	Remarks
 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.

Bodily protection

Pictogram	PPE	Remarks
 Mandatory complete body protection	Antistatic and fireproof protective clothing	Limited protection against flames.
 Mandatory foot Protection	Safety footwear with antistatic and heat resistant properties	Replace boots at any sign of deterioration.

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

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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	According to the markings on the package
Odour	Characteristic
Odour threshold	Not applicable*

Volatility

Boiling point at atmospheric pressure	>100 °C
Vapour pressure at 20 °C	2570 Pa
Vapour pressure at 50 °C	11744.82 Pa
Evaporation rate at 20 °C	Not applicable*

Product description

Density at 20 °C	1295.2 kg/m ³
Relative density at 20 °C	1.245 – 1.345
Dynamic viscosity at 20 °C	Not applicable*
Kinematic viscosity at 20 °C	Not applicable*
Kinematic viscosity at 40 °C	>20.5 mm ² /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*
Oxidising properties	Not applicable*

Flammability

Flash point	19 °C
Flammability (solid, gas)	Not applicable*
Autoignition temperature	285 °C
Lower flammability limit	Not available
Upper flammability limit	Not available

Explosive

Lower explosive limit	Not applicable*
Upper explosive limit	Not applicable*

9.2. Other information

Surface tension at 20 °C	Not applicable*
Refraction index	Not applicable*

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

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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

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

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:

Ingestion (acute effect)

Acute toxicity

Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.

Corrosivity/Irritability

The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

Inhalation (acute effect)

Acute toxicity

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.

Corrosivity/Irritability

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

Contact with the skin and the eyes (acute effect)

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Contact with the skin	Produces skin inflammation.
Contact with the eyes	Produces eye damage after contact.
CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction)	
Carcinogenicity	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.
IARC	Methyl methacrylate (3); N,N-dimethyl-p-toluidine (2B); n-butyl acrylate (3); 2,6-di-tert-butyl-p-cresol (3); Xylene (3); Ethylbenzene (2B)
Mutagenicity	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.
Reproductive toxicity	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.
Sensitizing effects	
Respiratory	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.
Cutaneous	Prolonged contact with the skin can result in episodes of allergic contact dermatitis.
Specific target organ toxicity (STOT) - single exposure	Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.
Specific target organ toxicity (STOT) - repeated exposure	
Specific target organ toxicity (STOT)-repeated exposure	Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.
Skin	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.
Aspiration hazard	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.
Other information	Not applicable.

Specific toxicology information on the substance:

Identification	Acute toxicity		Genus
Methyl methacrylate CAS: 80-62-6 EC: 201-297-1	LD50 oral	5000 mg/kg	Rat
	LD50 dermal	5000 mg/kg	Rabbit
	LC50 inhalation	29.8 mg/L (4 h)	Rat
N,N-dimethyl-p-toluidine CAS: 99-97-8 EC: 202-805-4	LD50 oral	100 mg/kg (ATEi)	
	LD50 dermal	300 mg/kg (ATEi)	
	LC50 inhalation	3 mg/L (4 h) (ATEi)	
Reaction mass of ethylbenzene and xylene	LD50 oral	2100 mg/kg	Rat

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CAS: 141-32-2	LD50 dermal	1100 mg/kg	Rat
	LC50 inhalation	11 mg/L (4 h)	Rat
n-butyl acrylate CAS: 141-32-2 EC: 205-480-7	LD50 oral	4000 mg/kg	
	LD50 dermal	Non-applicable	
	LC50 inhalation	11 mg/L (4 h) (ATEi)	

Acute Toxicity Estimate (ATE mix)

ATE mix		Ingredient(s) of unknown toxicity
Oral	24461.9 mg/kg (Calculation method)	16.61 %
Dermal	4344.04 mg/kg (Calculation method)	57.92 %
Inhalation	24.2 mg/L (4 h) (Calculation method)	67.56 %

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
Methyl methacrylate CAS: 80-62-6 EC: 201-297-1	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
n-butyl acrylate CAS: 141-32-2 EC: 205-480-7	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
N,N-dimethyl-p-toluidine CAS: 99-97-8 EC: 202-805-4	LC50	49 mg/L (96 h)	Pimephales promelas	Fish
	EC50	Not applicable		
	EC50	Not applicable		

Chronic toxicity:

Identification	Acute toxicity		Species	Genus
Methyl methacrylate CAS: 80-62-6 EC: 201-297-1	NOEC	9.4 mg/L	Danio rerio	Fish
	NOEC	37 mg/L	Daphnia magna	Crustacean
Reaction mass of ethylbenzene and xylene CAS: 141-32-2	NOEC	1.3 mg/L	Oncorhynchus mykiss	Fish
	NOEC	1.17 mg/L	Ceriodaphnia dubia	Crustacean
n-butyl acrylate CAS: 141-32-2 EC: 205-480-7	NOEC	Not applicable		
	NOEC	0.136 mg/L	Daphnia magna	Crustacean

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12.2. Persistence and degradability

Identification		Degradability		Biodegradability	
Methyl methacrylate 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 %
n-butyl acrylate 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 %

12.3. Bioaccumulative potential

Identification		Bioaccumulation potential	
Methyl methacrylate CAS: 80-62-6 EC: 201-297-1	BCF	7	
	Pow Log Potential	1.38	
		Low	
Reaction mass of ethylbenzene and xylene CAS: 141-32-2	BCF	9	
	Pow Log Potential	2.77	
		Low	
n-butyl acrylate CAS: 141-32-2 EC: 205-480-7	BCF	37	
	Pow Log Potential	2.36	
		Moderate	

12.4. Mobility in soil

Identification		Absorption/desorption		Volatility	
Methyl methacrylate 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
n-butyl acrylate CAS: 141-32-2 EC: 205-480-7	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

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

Spectrum UniPrime L257 MMA Concrete Primer [Part.1 – Base | Part.2 – Catalyst]

Code	08 01 11*
Description	waste paint and varnish containing organic solvents or other hazardous substances Dangerous
Type of waste (Regulation (EU) No 1357/2014)	HP3 Flammable, HP13 Sensitising, 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

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

Spectrum UniPrime L257 MMA Concrete Primer
[Part.1 – Base | Part.2 – Catalyst]

ADR 2019 and RID 2019

Special regulations	163, 367, 640D, 650
Tunnel restriction code	D/E
Physico-Chemical properties	See Section 9
Limited quantities	5 L

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	Non-applicable

IATA/ICAO 2019

Physico-Chemical properties	See Section 9
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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

The control of Major Accident Hazards Regulations 2015:

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, etc)

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.

The product could be affected by sectorial legislation.

Other legislation

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.

Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits.

SECTION 16: Other information

Legislation related to safety data sheets

Spectrum UniPrime L257 MMA Concrete Primer

[Part.1 – Base | Part.2 – Catalyst]

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).

Texts of the legislative phrases mentioned in section 2

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H335 - May cause respiratory irritation

H225 - Highly flammable liquid and vapour

H319 - Causes serious eye irritation

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

Acute Tox. 3: H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled

Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled

Acute Tox. 4: H332 - Harmful if inhaled

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways

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

Skin Sens. 1B: H317 - May cause an allergic skin reaction

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure

STOT SE 3: H335 - May cause respiratory irritation

Classification procedure

Skin Irrit. 2: Calculation method

Skin Sens. 1B: Calculation method

STOT SE 3: Calculation method

Flam. Liq. 2: Calculation method (2.6.4.3)

Eye Irrit. 2: Calculation method

Advice related to training

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.

Principal bibliographical sources <http://echa.europa.eu>
<http://eur-lex.europa.eu>

Abbreviations and acronyms

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

Spectrum UniPrime L257 MMA Concrete Primer
[Part.1 – Base | Part.2 – Catalyst]

Log-POW: Octanol–water partition coefficient

Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IARC: International Agency for Research on Cancer

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 dependable 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 UniPrime L257 MMA Concrete Primer
[Part.1 – Base | Part.2 – Catalyst]



SAFETY DATA SHEET – Part.2

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

Product Name	Spectrum UniPrime L257 MMA Concrete Primer
Product Inclusion	Part.2 of this document covers the Spectrum UniPrime L257 MMA Concrete Primer - Base Only.
Container Size	80g.

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

Identified Uses	Hardener for coatings. For professional user only.
Uses advised against	All uses not specified in this section or in section 7.3.

1.3. Details of the supplier of the safety data sheet

Supplier	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

Emergency telephone	+44 (0) 808 118 1922
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP Regulation (EC) no. 1272/2008

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

Dibenzoyl peroxide, 50% with dicyclohexyl phthalate and silica

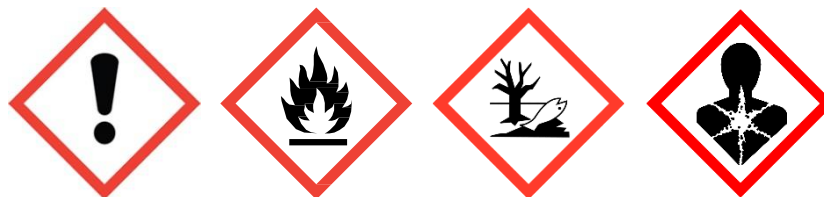
Org. Perox. D	Organic Peroxide Type D	H242	Heating may cause a fire.
Skin Sens. 1	Skin sensitisation, Category 1	H317	May cause an allergic skin reaction.
Eye Irrit. 2	Serious eye irritation, Category 2	H319	Causes serious eye irritation.
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1	H400	Very toxic to aquatic life.
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1	H410	Very toxic to aquatic life with long lasting effects
Repr.1B	Reproductive toxicity, Category 1B	H360D	May damage the unborn child.

Spectrum UniPrime L257 MMA Concrete Primer
[Part.1 – Base | Part.2 – Catalyst]

2.2. Label Elements

CLP Regulation (EC) no. 1272/2008

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

Org. Perox. D: H242 - Heating may cause a fire
 Skin Sens. 1: H317 - May cause an allergic skin reaction
 Eye Irrit. 2: H319 - Causes serious eye irritation
 Repr. 1B: H360D - May damage the unborn child
 Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
 P220 - Keep away from clothing and other combustible materials
 P234 - Keep only in original packaging.
 P261 – Avoid breathing dust/vapours.
 P273 - Avoid release to the environment
 P280 - Wear protective gloves/protective clothing/face protection
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact 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 and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

2.3. Other hazards

Product fails to meet PBT/vPvB criteria.
 May form explosible dust-air mixture if dispersed.

SECTION 3: Composition/information on ingredients

3.1. Substances

Non-applicable

3.2. Mixtures

Chemical description


Organic peroxide

Components

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

Identification	Chemical name/Classification		Concentration
CAS: 84-61-7 EC: 201-545-9 Index: 607-719-00-4 REACH 01-2119978223-34-XXXX	Dicyclohexyl phthalate ⁽¹⁾		20 - <50 %
	Regulation1272/2008	Aquatic Chronic 3: H412; Repr. 1B: H360D; Skin Sens. 1: H317 – Danger GHS08 GHS07 Dgr	

Spectrum UniPrime L257 MMA Concrete Primer
[Part.1 – Base | Part.2 – Catalyst]

CAS: 94-36-0 EC: 202-327-6 Index: 617-008-00-0 REACH 01-2119511472-50-XXXX	Dibenzoyl peroxide⁽¹⁾			20 - <50 %
	Regulation1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Irrit. 2: H319; Org. Perox. B: H241; Skin Sens. 1: H317 – Danger GHS01 GHS02 GHS07 Dgr		
CAS: 7631-86-9 EC: 231-545-4	silicon dioxide obtained by chemical transformation			<0.5 %
		Not classified		

¹ 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 8, 11, 12, 15 and 16.

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

Inhalation	Remove to fresh air, call a doctor.
Ingestion/Aspiration	Do not induce vomiting, call a doctor.
Skin contact	May cause skin sensitization – wash skin with soap and water, if visible irritation, seek medical advice.
Eye contact	Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Seek immediate medical advice.

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

Not applicable.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Water spray, carbon dioxide, foam, sand.
Unsuitable extinguishing media	Do not use halons.

5.2. Special hazards arising from the substance or mixture

Spectrum UniPrime L257 MMA Concrete Primer [Part.1 – Base | Part.2 – Catalyst]

Product at the same accelerating the decomposition (+55°C) decomposes explosively
NOTE: The re-ignition may occur, the product supports combustion; vapours may form explosive mixtures with air; do not inhale the fumes from fire or explosion.
Products of combustion: carbon dioxide, water
Products of thermal decomposition: carbon dioxide, oxygen, a mixture of benzoic acid, biphenyl, phenyl benzoate, a small amount of benzene.

5.3. Advice for firefighters

Personal protective equipment for firefighters Wear suitable fire-resistant protective clothing respiratory protection equipment.

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.

6.4. Reference to other sections

See sections 8 and 13.

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.

Technical recommendations for the prevention of fires and explosions

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 end use(s)

No information about other applications than the udder in subsection 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Spectrum UniPrime L257 MMA Concrete Primer [Part.1 – Base | Part.2 – Catalyst]

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).

DNEL (Workers):

Identification	
Dibenzoyl peroxide CAS: 94-36-0 EC: 202-327-6	NDS - 5 mg/m ³ NDSch - 10 mg/m ³ TWA - 5 mg/m ³ DNEL for workers (chronic exposure by inhalation, systemic): 39 mg/m ³ DNEL for workers (dermal chronic, systemic): 13,3 mg / kg body weight / day DNEL for workers (dermal chronic, local): 34 µg/cm ²
Dicyclohexyl phthalate CAS: 84-61-7 EC: 201-545-9	NDS: not determined NDSch: not determined DNEL for employee (chronic exposure by inhalation, systemic): 35.2 mg/m ³ DNEL for workers (dermal chronic, systemic): 0.5 mg/kg/day
silicon dioxide CAS: 7631-86-9 EC: 231-545-4	total dust – NDS - 10 mg/m ³ respirable dust- NDS - 2 mg/m ³

DNEL (General population):

Identification	
Dicyclohexyl phthalate CAS: 84-61-7 EC: 201-545-9	DNEL general population (chronic exposure by inhalation, systemic): 0.87 mg/m ³ 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

8.2. Individual protection measure, such as personal protective equipment

Eye/face protection

Use safety goggles or face protection from plexiglass

Skin protection

Use appropriate protective antistatic clothing

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

Spectrum UniPrime L257 MMA Concrete Primer [Part.1 – Base | Part.2 – Catalyst]

Thermal hazards

in normal work condition – no thermal hazard

8.2.1. Appropriate engineering controls

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

8.2.2. Exposure controls

General safety and hygiene measures in the workplace

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.

PNEC

Identification	
Dibenzoyl peroxide CAS: 94-36-0 EC: 202-327-6	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 CAS: 84-61-7 EC: 201-545-9	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

For complete information see the product datasheet

Appearance

Physical state at 20 °C	Solid
Appearance	Powdery
Colour	White
Odour	Faint
Odour threshold	Non-applicable *

Volatility

Boiling point at atmospheric pressure	Not determined
Vapour pressure at 20 °C	Non-applicable *
Vapour pressure at 50 °C	<300000 Pa (300 kPa)
Evaporation rate at 20 °C	Non-applicable*

Product description

Density at 20 °C	630 kg/m ³
Relative density at 20 °C	Non-applicable*

Spectrum UniPrime L257 MMA Concrete Primer [Part.1 – Base | Part.2 – Catalyst]

Dynamic viscosity at 20 °C	Non-applicable*
Kinematic viscosity at 20 °C	Non-applicable*
Kinematic viscosity at 40 °C	Non-applicable*
Concentration	Non-applicable*
pH	ca. 7
Relative density	630 kg/m ³
Vapour density at 20 °C	Not determined
Partition coefficient n-octanol/water at 20 °C	Non-applicable*
Solubility in water at 20 °C	Insoluble
Solubility properties	Non-applicable*
Decomposition temperature	62 °C
Melting point/Freezing point	Not determined
Explosive properties	Non-applicable*
Oxidising properties	Organic peroxide
Flammability	
Flash point	Non-applicable*
Flammability (solid, gas)	Flammable
Autoignition temperature	Non-applicable*
Lower flammability limit	Non-applicable*
Upper flammability limit	Non-applicable*
Explosive	
Lower explosive limit/ Upper explosive limit	One component (benzoyl peroxide is explosive)
Viscosity	Not applicable in accordance with Annex XI of the REACH regulations (Solid)

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 acids, alkalis, amines.

10.6. Hazardous decomposition products

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

Spectrum UniPrime L257 MMA Concrete Primer
[Part.1 – Base | Part.2 – Catalyst]

SECTION 11: Toxicological information

11.1. Information on toxicological effects

DIBENZOYL PEROXIDE

Acute toxicity:	Oral: no adverse effect observed DNEL: 2000 mg/kg bw; LD50(mouse): > 2000 mg/kg Dermal: no study available inhalation: no adverse effect observed DNEL: 24300 mg/m ³ ; LC50(rat); 24,3 mg/l (exp. time: 4h)
Skin corrosion/irritation:	No adverse effect observed – not irritant
Serious eye damage/irritation:	No adverse effect observed – irritant
Respiratory or skin sensitisation:	Adverse effect observed – cause sensitisation by skin contact
Germ cell mutagenicity:	In vitro / in vivo – no adverse effect observed (negative result)
Carcinogenicity:	Oral, skin – no relevant information available. Inhalation – no data available.
Reproductive toxicity:	No data available
STOT – single exposure	Not classified based on available information.
STOT – repeated exposure	Not classified based on available information.
Repeated dose toxicity	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 ² (mouse, chronic) Inhalation (systemic, local): no data available
Aspiration hazard	Not classified based on available information

DICYCLOHEXYL PHTHALATE

Acute toxicity:	LD50 (rat):> 2000 mg / kg
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Spectrum UniPrime L257 MMA Concrete Primer
[Part.1 – Base | Part.2 – Catalyst]

Skin corrosion/irritation:	Not present – not classified.
Serious eye damage/irritation:	Eyes – slightly irritation – not classified
Respiratory or skin sensitisation:	Possible sensitisation by skin contact
Germ cell mutagenicity:	Not occur.
Carcinogenicity:	Not occur.
Reproductive toxicity:	May damage the unborn child - rat 240 ppm NOAEL
STOT – single exposure	No data available.
STOT – repeated exposure	No data available.
Repeated dose toxicity	NOAEL rat, 50 mg/kg bw./day
Aspiration hazard	Not data available.

SILICON DIOXIDE OBTAINED BY CHEMICAL TRANSFORMATION

Acute toxicity:	Oral - LD50 (rat):> 10000 mg / kg Inhalation - LC0 (rat, 4h): 0.139 mg / l Skin - LC50(rabbit): > 5000 mg / kg
Skin corrosion/irritation:	Not present – not classified.
Serious eye damage/irritation:	Not present – not classified.
Respiratory or skin sensitisation:	Not present – not classified.
Germ cell mutagenicity:	Not occur.
Carcinogenicity:	Not occur.
Reproductive toxicity:	Not occur.

Spectrum UniPrime L257 MMA Concrete Primer [Part.1 – Base | Part.2 – Catalyst]

STOT – single exposure	No data available.
STOT – repeated exposure	No data available.
Repeated dose toxicity	No data available.
Aspiration hazard	No data available.

SECTION 12: Ecological information

12.1. Toxicity

DIBENZOYL PEROXIDE:

Water pollution class (Germany): WGK 1 slightly water.
EC50 (48h) (Daphnia magna): 0.110 mg/l NOEC: 0.0765 mg/l
EC50 (96h) (fish): 0.0602 mg/l NOEC: 0.0316 mg/l
EC50 (72h) (algae) 0.0711 mg/l NOEC: 0.02 mg/l
EC50 (0.5h) (bacteria) 35 mg/l

DICYCLOHEXYL PHTHALATE:

EC50(48h) (Daphnia magna): > 2 mg/l acute toxic
NOEC (21 days) (Daphnia magna): 0,679 mg/l chronic toxic
LC50(96h) (fish): > 2 mg/l
IC50(72h) (algae) 0.06 mg/l

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
lg 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

Product fails to meet PBT/vPvB criteria.

Spectrum UniPrime L257 MMA Concrete Primer

[Part.1 – Base | Part.2 – Catalyst]

12.6. Other adverse effects

No adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

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 2017 and RID 2017	UN3106
IMDG 38-16	UN3106
IATA/ICAO 2017	UN3106

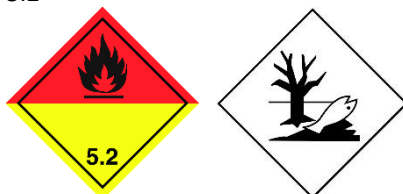
14.2. UN proper shipping name

ADR 2017 and RID 2017	ORGANIC PEROXIDE TYPE D, SOLID (Dibenzoyl peroxide)
IMDG 38-16	ORGANIC PEROXIDE TYPE D, SOLID (Dibenzoyl peroxide)
IATA/ICAO 2017	ORGANIC PEROXIDE TYPE D, SOLID (Dibenzoyl peroxide)

14.3. Transport hazard class(es)

ADR 2017 and RID 2017	5.2
IMDG 38-16	5.2
IATA/ICAO 2017	5.2

Transport Labels



14.4. Packing group

ADR 2017 and RID 2017	No Data
IMDG 38-16	No Data
IATA/ICAO 2017	No Data

14.5. Environmental hazards

ADR 2017 and RID 2017	Yes
IMDG 38-16	Yes
IATA/ICAO 2017	Yes

14.6. Special precautions for user

ADR 2017 and RID 2017	
Special regulations	122, 274
Tunnel restriction code	D
Physico-Chemical properties	See Section 9
Limited quantities	500 g

Spectrum UniPrime L257 MMA Concrete Primer [Part.1 – Base | Part.2 – Catalyst]

IMDG 38-16

Special regulations	122, 274
EmS code	F-J, S-R
Physico-Chemical properties	See Section 9
Limited quantities	500 g

IATA/ICAO 2017

Physico-Chemical properties	See Section 9
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14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

ADR 2017 and RID 2017	Not authorized for carriage in bulk
IMDG 38-16	Not authorized for carriage in bulk
IATA/ICAO 2017	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

Not available.

SECTION 16: Other information

- 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
- H412 Harmful to aquatic life with long lasting effects

SDS is prepared in accordance with Commission Regulation (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) 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) (Official Journal of the European Union, series L No. 133 of 31 May 2010). Source: Chemical Safety Report of the substance: Dibenzoyl peroxide, SDS of the mixture component.

Used to the evaluation of information (classification) the method of calculation and the published literature concerning the classification of organic peroxides. Update: supplemented and / or verified subsection: 5.2, 9.1q, 10.3, 15.1, 16.

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.

Spectrum UniPrime L257 MMA Concrete Primer **[Part.1 – Base | Part.2 – Catalyst]**

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

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.