

Spectrum Ultraline MMA Based 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) 453/2010

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

1.1. Product identifier

Product Name	Spectrum UltraLine MMA based Paint
Product Inclusion	Part.1 of this document covers all colour variants in the Spectrum Ultraline MMA Based Paint range - Base.
Container Size	8kg

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

Identified Uses	Base for road marking filler Use only the hardener of the same reference Respect the dosage base/hardener indicated by the supplier Professional use only
Uses advised against	No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier	Meon Ltd. Railside Northharbour Spur Portsmouth PO6 3TU +44 (0) 23 9220 0606 +44 (0) 23 9220 0707 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

Classification according to regulation EC1272/2008 and amendments

- Flammable liquids –Hazard category 2 - H225
- Skin corrosion/irritation –Hazard category 2 – H315
- Sensitisation. Skin – Hazard category 1 – H317

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

- R11 – Highly flammable
- R43 – May cause sensitization by skin contact

2.2. Label Elements

Mixture for aerosol application

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms

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GHS02



GHS07

Signal word	Danger
Hazardous component(s) for labeling	Methyl methacrylate – n-Butyl acrylate
H-statement(s)	H225 - Highly flammable liquid and vapour H315 - Cause skin irritation H317 – May cause an allergic skin reaction
P-statement(s)	P210 - Keep away from heat/sparks/open flames/hot surfaces – no smoking P260 – Do not breathe dust/fume/gas/mis/vapours/spay P280 - Wear protective gloves/protective clothing/eye protection/face protection P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin water/shower. P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position 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. P403+P233 - Store in a well-ventilated place. Keep container tightly closed P501 - Dispose of contents/container in accordance with local and national regulation

2.3. Other hazards

Vapours are irritating to eyes, skin and mucous membranes

Avoid an uncontrolled polymerization. Use only ULTRALINE hardener; respect the ration base/hardener.

The product is not classified as PBT or vPvB (REACH- Annex XIII)

SECTION 3: Composition/information on ingredients

SUBSTANCE [] MIXTURE [X]

Dangerous component(s)

Ingredient	N°CAS N° CE N° Index N° Enregistrement REACH	Classification (EEC) No 67/548	Concentration
		Classification (EC) 1272/2008	
Methyl methacrylate	80-62-6 201-297-1 607-035-00-6 01-2119452498-28-xxxx	F - R11 Xi – R37/38 – R43	>1 - <10
		Flam. Liq. 2 –H225 Skin Irrit. 2 – H315 Skin Sens. 1 – H317 STOT SE. 3 – H335	
n-butyl acrylate	141-32-2 205-480-7 607-062-00-3 01-2119463155-43-xxxx	R10 Xi - R36/37/38 - R43	>1 - <10
		Flam. Liq. 3 –H226 Skin Irrit. 2 – H315 Skin Sens. 1 – H317 Eye Irrit. 2 – H319 Acute Tox. 4 – H332 STOT SE. 3 – H335 Aquatic Chronic. 3 – H412	

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N,N-bis-(2-hydroxypropyl)-p-toluidine	38668-48-3 254-075-1 ***** 01-2119980937-17	T – R25 Xi – R36 R52/53	< 1
		Acute Tox. 1 – H300 Eye Irrit. 2 – H319 Aquatic Chronic. 3 – H412	
N,N-diméthyl-p-toluidine	99-97-8 202-805-4 612-056-00-9 01-2119937766-23-xxxx	T – R23/24/25 R33 R 52/53	< 1
		Acute Tox. 3 – H301 Acute Tox. 3 – H311 Acute Tox. 3 – H331 STOT RE. 2 – H373 Aquatic Chronic 3 – H412	

The full text for all H and R phrases are displayed in section 16

SECTION 4: First aid measures

Take off all contaminated clothing immediately.
Never give anything by mouth to an unconscious person.

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 last 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

see sections 2 and 11

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Water spray, foam, CO₂, dry powder.

Extinguishing media which must not be used for safety reasons high volume water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting May be releases in case of fire: carbon monoxide, carbon dioxide, organic products of decomposition.
Runoff to sewer may create fire or explosion hazard.

5.3. Advice for firefighters

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..

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-first aid worker

Evacuate the danger zone, follow emergency precautions.

Avoid contact with the material, do not breath vapors or aerosols, if possible, provide additional ventilation.

Personal protection equipment must be used (see section 8).

Remove all source of ignition.

For first aid worker

Eliminate all ignition sources. Do evacuate people on the surrounding area.

Do not take action without proper training and emergency equipment.

Use breathing apparatus if exposed to vapors/dust/mist/aerosol.

Take all precautions to prevent the accumulation of electrostatic charge.

6.2. Environmental precautions

Do not allow to enter drains, sewers surface or ground water.

Use appropriate containment to avoid environmental contamination.

Inform the relevant authorities if the product has caused environmental pollution (sewers, waterway, soil or air).

6.3. Methods and material for containment and cleaning up

Stop leak if without risk – Move containers from spill area –Prevent entry into sewers, surface water

Larger quantities: remove mechanically (pumping)

Smaller quantities: soak up with non-combustible absorbent material (e; g vermiculite, sand,..) and place in container for disposal in accordance with regulations.

Contaminated absorbent material and wash waters may pose the same hazards as the spilled product.

6.4. Reference to other sections

See section 7 for information on safe handling

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

Observe all label precautions – Use appropriate Personal protective equipment (section 8 -)

Avoid breathing vapour/dust/aerosol – Avoid contact with skin.

Keep away from heat and sources of ignition - Take all precautions to prevent the accumulation of electrostatic charge.

Eating, drinking and smoking should be prohibited in areas where this product is handled, stored and used.

Worker should wash hands and face before eating, drinking and smoking.

Keep in the original container and kept tightly closed when not in use.

Provide good ventilation of working area (local exhaust ventilation if necessary).

During processing and handling of the product, comply with the indicative occupational exposure limit values.

7.2. Conditions for safe storage, including any incompatibilities

Store in cool, dry, well ventilated place and keep container tightly closed. (5°C to 25°C), away from food and drink

Store in accordance with local regulations

Keep away from sources of ignition

Take precautionary measures against electrostatic charge.

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

Pay attention to the special requirements of your local authorities for storing dangerous goods.

Store only in the original receptacle with suitable labels.

7.3. Specific and uses

No data available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

- Ingredients with limit values that requires monitoring at the workplace

Methyl methacrylate - VME = 50 ppm – 205 mg/m³ - VLE = 100 ppm – 410 mg/m³ (France)

n-butyl acrylate – VME = 2 ppm - 11 mg/m³ - - VLE = 10 ppm - 53 mg/m³ - (France)

VME = mean exposure: 8 hours/day – 5 days/week

VLE = exposure limit value: 15 minutes

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DNEL – Worker

Substance	Inhalation Short exposure	Inhalation Long exposure	Dermal Long exposure
Methyl methacrylate	No data available	208 mg/m ³ (es - el)	13.67 mg/kg bw/d (es)
n-butyl acrylate	No data available	11 mg/m ³ (el)	0.28 mg/cm ² (el)
N,N-bis-(2-hydroxypropyl)-p-toluidine	No data available	2 mg/m ³ (es)	0.6 mg/kg bw/d (es)
N,N-diméthyl-p-toluidine	No data available	1.35 mg/m ³ (es)	1.19 mg/kg bw/d (es)

DNEL - Population

Substance	Inhalation Long exposure	Inhalation Short exposure	Dermal Long exposure	Ingestion Exposition Long term
Methyl methacrylate	74.3 mg/m ³ (es) 104 mg/m ³ (el)	No data available	8.2 mg/kg bw/d (es) 1.5 mg/cm ² (el)	No data available
n-butyl acrylate	No data available	No data available	No data available	No data available
N,N-bis-(2-hydroxypropyl)-p-toluidine	0.4 mg/m ³ (es)	No data available	0.3 mg/kg bw/d (es)	0.3 mg/kg bw/d (es)
N,N-diméthyl-p-toluidine	0.336 mg/m ³ (es)	No data available	0.295 mg/kg bw/c (es)	2.38 mg/kg bw/d (es)

*(es) :systemic effect - *(el) : local effect

PNEC: Predicted No Effect Concentration

Substance	Fresh water (Mg/l)	Marine water (mg/l)	Sediment Fresh water (mg/kg)	Sediment Marine water (mg/kg)	STP (mg/l)	SOIL (mg/kg)
Methyl methacrylate	0.94	0.94	5.74	No data available	10	1.47
n-butyl acrylate	0.00272	0.00027	0.0338	0.0033	3.5	1
N,N-bis-(2-hydroxypropyl)-p-toluidine	0.017	0.0017	0.0782	0.00782	199.5	0.005
N,N-diméthyl-p-toluidine	0.153	0.0153	45.38	45.38	4.28	18.67

Data: ECHA (registered substances)

8.2. Exposure controls

Personal protection measures,

Provide adequate ventilation.
 Observe occupational exposure limits.
 Do not breathe vapours. Avoid contact with eyes and skin
 Store work clothing separately. Take off contaminated clothing immediately.
 Follow the usual good standards of occupational hygiene. After work and before eating, drinking or smoking, wash face and hands thoroughly with soap and water.
 In case of using individual protection equipment they should have the “CE marking” in accordance with Directive 89/686/EC. For more information on personal Protection equipment (storage, use, cleaning, maintenance, class of protection, ..) consult the information leaflet provided by the manufacturer.

Respiratory protection

Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated (Filter A2/P2- EN 140-141.1432)

Breathing apparatus in case of high concentrations

Hand Protection

Only use chemical protective gloves EN 374 [Nitril- Viton-

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Neoprene 45µ)

Gloves should be replaced regularly, especially after extended contact with the product. For each work-place a suitable glove type has de selected.

Replace gloves immediately when torn or any change in appearance is notified (dimension, colour, flexibility,...)

The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Eye Protection

Provide eye wash fountain and safety shower in close proximity to points of potential exposure, if is it possible

Body protection

Wear appropriate work clothing to prevent any possibility of skin contact

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance- Colour - Odor	Coloured viscous suspension – Characteristic odor
pH	Non-applicable
Boiling Point [°C]	> 100°C
Flash point	16 °C
Evaporate Rate	No data available
Solubility in water	Immiscible in water
Flammable limits	2.1 to 12.5 % by volume (methyl methacrylate)
Vapour pressure	40 kPa 20°C
Relative vapour density (related to air)	No data available
Density	1.7 – 1.8 - 20°C
Partition coefficient (n-octanol/water)	No data available
Auto ignition temperature	> 270°C
Decomposition temperature	No data available

9.2. Other information

No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

None when used as directed.

10.2. Chemical stability

Stable under normal temperature condition and recommended use

10.3. Possibility of hazardous reactions

None under normal processing

10.4. Conditions to avoid

Heat - Flames and sparks- Sunlight

10.5. Incompatible materials

Avoid contact with strong oxidizing agents, strong acids and strong bases

10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide

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

Substance (s)	LD50 oral/rat	LD50 Dermique lapin	LC Inhalation
Méthacrylate de méthyle	> 5 000 mg/kg	> 5 000 mg/kg	Rat (4h) = 29.8 mg/l
Acrylate de n-butyle	> 2 000 mg/kg	> 1800 mg/kg	Rat (4h) = 10.3 mg/l
N,N-bis-(2-hydroxypropyl)-p-toluidine	25 – 200 mg/kg	No data available	No data available

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N,N-diméthyl-p-toluidine	996 mg/kg	No data available	No data available
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This product is not classified as toxic

Skin corrosion/irritation: Product contains classified substances as irritating for the skin

Serious eye damage- Eye irritation: In strong concentration, vapours are irritating for eyes

Respiratory/ Skin sensitization: Product is classified in this hazard class – Sensitisation by skin contact

Specific Target organ Toxicity – Single exposure: Product is not classified in this hazard class

Specific Target organ Toxicity – Repeated exposure: Risk or irritation and allergic reaction by skin contact.

CMR :

Carcinogenicity: There are no known carcinogenic chemicals in this product

Reproductive Toxicity: Product is not classified in this hazard class

Germ cell Mutagenicity: Product is not classified in this hazard class

11.1.2. Mixture

No toxicological data available for the mixture.

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)	CL50 - Fish	EC50 – Aquatic invertebrates	LC50 - Algae
Méthacrylate de méthyle	(96h) > 79 mg/l	(48h) = 69 mg/l	(96h) = 170 mg/l
Acrylate de n-butyle	(96h) = 5.2 mg/l	(48h) = 8.2 mg/l	(96h) = 5.5 mg/l
N,N-bis-(2-hydroxypropyl)-p-toluidine	(96h) = 17 mg/l	(48h) = 28.8 mg/l	(72h) = 245 mg/l
N,N-diméthyl-p-toluidine	(96h) > 100 mg/l	(48h) = 48 mg/l	(72h) > 100 mg/l

Do not reject in sewers or in natural environment

Prevent the product from entering soil, natural bodies of water and sewer systems

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

Product does not cause bioaccumulation

12.4. Mobility in soil

No further relevant information available

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.

SECTION 13: Disposal considerations

The product and its container must be disposed of as dangerous wastes

13.1. Waste treatment methods

Waste is hazardous. It must be disposed in accordance with the regulation after consultation of the competent local authorities and the disposal company in a suitable and licensed facility

13.2 Uncleaned packaging

Contaminated packaging should totally be emptied; it can be recycled after having been thoroughly cleaned.


Packaging which cannot be decontaminated should be disposed of like the product

Never to drill or to burn a bucket having contained flammable product, there is risk of explosion.

SECTION 14: Transport information

	ADR / RID	IMDG	IATA
14.1 N° ONU		1263	

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14.2 UN proper shipping name	PAINT		
14.3 Transport hazard classe label	<p align="center">3</p> 		
14.4 Packing Group	II	II	II
14.5 Dangerous for Environment	No	No	No
14.6 Special precautions for users	Tunnel restriction : D/E Limited quantities : 5L	Limited quantities : 5L	
14.7 Transport in bulk (annexe II MARPOL 73/78 ans IBC code)	Non-applicable		

SECTION 15: Regulatory information

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

Ozone depleting substances: Non applicable

Persistent organic Pollutants: Non applicable

Limitations to commercialisation and use of certain dangerous substances and mixtures (REACH- Annex XVIII): point N° 40

Occupational restrictions: Note for juvenile. Note for pregnant woman and nursing mother (92/85/EEC)

Regulation REACH: EC 1907/2006

Regulation CLP: EC 1272/2008 on classification, labelling and packaging for substances and mixture

Regulation EU N° 453/2010 on safety data sheets

Candidate substances for authorization Regulation REACH: EC 1907/2006 Annex XIV: Non applicable

Specific provisions in terms of protecting people or the environment

It is recommended to use information included in this safety data sheet as data used in risk evaluation of the local circumstances in order to establish the necessary prevention measures for the manipulation, use, storage and disposal of this product.

15.2 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 the Regulation EC 1907/2006 (REACH) and the Regulation EC 453/2010 'Guide to the compilation of safety data sheets'.

Modifications on the safety data sheet

Writing of the document in accordance with regulation EC 1907/2006 and EC 1272/2008

Relevant H & R phrases from section 3

R10 - Flammable

R11 - Highly flammable

R25 - Toxic if swallowed

R23/24/25 – Toxic by inhalation, in contact with skin and if swallowed

R33 - Danger of cumulative effects

R36/37 - Irritating to eyes and respiratory system

R36/37/38 - Irritating to eyes, respiratory system and skin

R43 - May cause sensitisation by skin contact

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R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
H225 - Highly flammable liquid and vapours
H226 - Flammable liquid and vapours
H300 - Fatal if swallowed
H301 - Toxic if swallowed
H311 - Toxic in contact with skin
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Cause serious eye irritation
H331 - Toxic if inhaled
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H373 - May cause damage to organs through prolonged or repeated exposure
H412 - Harmful to aquatic life with long lasting effects

Advice related to training

Minimal training is recommended to prevent industrial risk 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.

Main bibliographical sources

<http://esis.jrc.ec.europa.eu>

<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

COD – Chemical Oxygen Demand

BOD5 – 5-day Biochemical Oxygen Demand

LD50 – Lethal Dose 50

LC50 – Lethal concentration 50

EC50 – Effective concentration 50

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.

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SAFETY DATA SHEET – Part.2

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

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

1.1. Product identifier

Product Name	MMA Resin Peroxide
Product Inclusion	Part.2 of this document covers the Spectrum UltraLine MMA based Paint catalyst only.
Container Size	80g

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

Identified Uses	Hardener for road marking filler (3 components) Mix only the HORUS. Part B Respect the dosage Part B/hardener indicated by the supplier Professional use only
Uses advised against	No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier	Meon Ltd. Railside Northarbour Spur Portsmouth PO6 3TU +44 (0) 23 9220 0606 +44 (0) 23 9220 0707 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

Classification according to regulation EC1272/2008 and amendments

- Organic peroxides. Category D – H242
- Sensitisation. Skin – Hazard category 1 – H317
- Eye irritation – Hazard category 2 – H319
- Reproductive toxicity – Hazard category 2 – H361 fd
- Hazardous to the aquatic environment – Acute hazard. Category 1 – H400
- Hazardous to the aquatic environment – long term hazard. Category 3 – H412

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

- R7 – May cause fire
- R36 – Irritating to eyes
- R43 – May cause sensitization by skin contact
- R50/53 – Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- R62 – possible risk of impaired fertility

2.2. Label Elements

Hazard pictograms

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Signal word	Danger
Hazardous component(s) for labeling	Contains Dibenzoyl peroxide – Dicyclohexyl phtalate
H-statement(s)	H242 – Heating may cause a fire H317 – May cause an allergic skin reaction H319 – Causes serious eye irritation H361fd – Suspected to impair fertility – Suspected to damage the unborn child H400 – Very toxic to aquatic life H412 – Harmful to aquatic life with long lasting effects
P-statement(s)	P202 – Do not handle until all safety precautions have been read and understood P210 - Keep away from heat/sparks/open flames/hot surfaces – no smoking P260 – Do not breathe dust/fume/gas/mist/vapours/spray P273 – Avoid release to the environment P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 – IF ON SKIN: wash with plenty of soap and water P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove cc lenses, if present and easy to do. Continue rinsing. P370+P378 – in case of fire: Use ABC Powder for extinction P410 –Protect from sunlight P411+P235 – Store at temperatures not exceeding 30°C. Keep cool P501 - Dispose of contents/container in accordance with local and national regulation

2.3. Other hazards

Avoid an uncontrolled polymerization. Use only with HORUS part B, respect the ration part B/hardener.
The product is not classified as PBT or vPvB (REACH- Annex XIII)

SECTION 3: Composition/information on ingredients

SUBSTANCE [] MIXTURE [X]

Dangerous component(s)

Ingredient	N°CAS N° CE N° Index N° Enregistrement REACH	Classification (EEC) No 67/548	Concentration
		Classification (EC) 1272/2008	
Dibenzoyl peroxide	94-36-0 202-327-6 617-008-00-0 2119511472-50-xxxx	E - R3 O - R7 Xi – R36 –R43 N- R50/53	>45 - < 51
		Org. Perox. B – H241 Skin Sens. 1 – H317 Eye Irrit. 2 – H319 Aquatic Acute 1 – H400 (M=10)**	
Diclohexyl phtalate	84-61-7 201-545-9 ***** 2119978223-34-XXXX	R43 R53 R62	>45 - < 51
		Skin Sens. 1 – H317 Repr. 2 – H361fd Aquatic Chronic. 3 – H412	

The full text for all H and R phrases are displayed in section 16

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** =Factor M: Regulation EC/1272/2008 point 4.1.3.5.5.5

SECTION 4: First aid measures

Take off all contaminated clothing immediately.
Never give anything by mouth to an unconscious person.

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

See sections 2 and 11

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

No data available

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)

Extinguishing media which must not be used for safety reasons high volume water jet

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 explosives 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

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-first aid worker

Evacuate the danger zone, follow emergency precautions.
Avoid contact with the material, do not breath vapours or aerosols, if possible, provide additional ventilation.
Personal protection equipment must be used (see section 8).
Remove all source of ignition.

For first aid worker

Eliminate all ignition sources. Do evacuate people on the surrounding area.
Do not take action without proper training and emergency equipment.
Use breathing apparatus if exposed to vapours/dust/mist/aerosol.

6.2. Environmental precautions

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Do not allow to enter drains, sewers surface or ground water.

Use appropriate containment to avoid environmental contamination.

Inform the relevant authorities if the product has caused environmental pollution (sewers, waterway, soil or air).

6.3. Methods and material for containment and cleaning up

Stop leak if without risk – Move containers from spill area – Prevent entry into sewers, surface water

Collect the product with a shovel and a broom. Moisten slightly to avoid dust.

Do not close hermetically the packagings which contain the wet product.

Contaminated absorbent material and wash waters may pose the same hazards as the spilled product.

6.4. Reference to other sections

See section 7 for information on safe handling

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

Observe all label precautions – Use appropriate Personal protective equipment (section 8 -)

Avoid breathing vapour/dust – Avoid contact with skin

Keep away from heat and sources of ignition - Take all precautions to prevent the accumulation of electrostatic charge.

Eating, drinking and smoking should be prohibited in areas where this product is handled, stored and used.

Worker should wash hands and face before eating, drinking and smoking.

Keep in the original container and kept tightly closed when not in use.

Provide good ventilation of working area (local exhaust ventilation if necessary).

During processing and handling of the product, comply with the indicative occupational exposure limit values

7.2. Conditions for safe storage, including any incompatibilities

Store in cool, dry, well ventilated place and keep container tightly closed. (5°C to 25°C), away from food and drink

Store in accordance with local regulations

Keep away from sources of ignition. Take precautionary measures against electrostatic charge.

Pay attention to the special requirements of your local authorities for storing dangerous goods.

Store only in the original receptacle with suitable labels.

7.3. Specific and uses

No other additional special end use are anticipated

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

- Ingredients with limit values that requires monitoring at the workplace

Dibenzoyl peroxide - VME = 5 mg/m³ - (France) –

VME = mean exposure: 8 hours/day – 5 days/week

VLE = exposure limit value: 15 minutes

DNEL – Worker

Substance	Inhalation Short exposure	Inhalation Long exposure	Dermal Long exposure
Dibenzoyl peroxide	No data available	11.75 mg/m ³ (es)	6.6 mg/kg bw/d (es)
Dicyclohexyl phthalate	No data available	35.2 mg/m ³ (el)	0.5 mg/kg bw/d (es)

DNEL - Population

Substance	Inhalation Long exposure	Inhalation Short exposure	Dermal Long exposure	Ingestion Exposition Long term
Dibenzoyl peroxide	2.9 mg/m ³ (es)	No data available	3.3 mg/kg bw/d (es)	1.65 mg/kg bw/d (es)
Dicyclohexyl phthalate	0.87 mg/m ³ (es)	0.87 mg/m ³ (es)	0.25 mg/kg bw/d (es)	0.25 mg/kg bw/d (es)

*(es) : systemic effect - *(el) : local effect - Data : ECHA (registered substances)

PNEC: Predicted No Effect Concentration

Substance	Fresh water (Mg/l)	Marine water ((mg/l)	Sediment Fresh water (mg/kg)	Sediment Marine water (mg/kg)	STP (mg/l)	SOIL (mg/kg)
Dibenzoyl peroxide	0.000602	0.0000602	0.338	No data available	0.35	0.0758

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Dicyclohexyl phthalate	0.00362	0.000362	1.06	0.106	10	0.21
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Data: ECHA (registered substances)

8.2. Exposure controls

Personal protection measures,

Provide adequate ventilation.
Observe occupational exposure limits.
Do not breathe dust. Avoid contact with eyes and skin
Store work clothing separately. Take off contaminated clothing immediately.
Follow the usual good standards of occupational hygiene. After work and before eating, drinking or smoking, wash face and hands thoroughly with soap and water.

Pregnant women should not be exposed to this product

Avoid the exposure of sensitive persons

In case of using individual protection equipment they should have the “CE marking” in accordance with Directive 89/686/EC. For more information on personal Protection equipment (storage, use, cleaning, maintenance, class of protection, ..) consult the information leaflet provided by the manufacturer.

Respiratory protection

Use suitable respiratory equipment (mask EN 149-2001- FFP2 or FFP3)

Hand Protection

Only use chemical protective gloves EN 374 [Nitril- Viton- Neoprene 45µ]
Gloves should be replaced regularly, especially after extended contact with the product. For each work-place a suitable glove type has de selected.

Replace gloves immediately when torn or any change in appearance is notified (dimension, colour, flexibility,..)

The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer

Eye Protection

Tightly sealed goggles (EN 166).

Provide eye wash fountain and safety shower in close proximity to points of potential exposure, if is it possible

Body protection

Wear appropriate work clothing to prevent any possibility of skin contact

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance- Colour - Odour	Solid. Powdery – White- Characteristic odour
pH	Non-applicable
Boiling Point [°C]	Non-applicable
Flash point	Non-applicable
Evaporate Rate	Non-applicable
Solubility in water	Non-applicable
Flammable limits	Non-applicable
Vapour pressure	Non-applicable
Relative vapour density (related to air)	No data available
Gravity	620 kg/m ³ - 20°C
Partition coefficient (n-octanol/water)	No data available
Auto ignition temperature	Non-applicable
Decomposition temperature	62°C

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9.2. Other information

No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

None when used as directed.

10.2. Chemical stability

Stable under normal temperature condition and recommended use

10.3. Possibility of hazardous reactions

None under normal processing

Decomposition auto-accelerated from 60°C (SADT)

10.4. Conditions to avoid

Heat - Flames and sparks- Sunlight

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

See § 5.2

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

Substance (s)	LD50 oral/rat	LD50 Dermique lapin	LC Inhalation
Dibenzoyl peroxide	> 5 000 mg/kg	> 5 000 mg/kg	Rat (4h) = 24.3 mg/l
Dicyclohexyle phtalate	> 2 000 mg/kg	No data available	No data available

This product is not classified as toxic

Skin corrosion/irritation:

Product contains classified substances as irritating for the skin

Serious eye damage- Eye irritation:

Product enters in this hazard class

Respiratory/ Skin sensitization:

Product is classified in this hazard class – Sensitisation by skin contact

Specific Target organ Toxicity –

Product is not classified in this hazard class

Single exposure:

Specific Target organ Toxicity –

Product is not classified in this hazard class

Repeated exposure:

CMR :

Carcinogenicity:

There are no known carcinogenic chemicals in this product

Reproductive Toxicity:

Product is classified in this hazard class / Exposure to the product can endanger fertility of human beings

Germ cell Mutagenicity:

Product is not classified in this hazard class

11.1.2. Mixture

No toxicological data available for the mixture.

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)	CL50 - Fish	EC50 – Aquatic invertebrates	LC50 - Algae
Dibenzoyl peroxide - factor M = 10	(96h) : 0.0602 mg/l	(48h) = 0.11 mg/l	(72h) = 0.071 mg/l
Dicyclohexyle phtalate	(96h) = 10 - 100 mg/l	(48h) = 10 - 100 mg/l	(96h) = 10 – 100 mg/l

Do not reject in sewers or in natural environment

Prevent the product from entering soil, natural bodies of water and sewer systems

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

Product does not cause bioaccumulation

12.4. Mobility in soil

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No further relevant information available

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.

SECTION 13: Disposal considerations

The product and its container must be disposed of as dangerous wastes

13.1. Waste treatment methods


Waste is hazardous. It must be disposed in accordance with the regulation after consultation of the competent local authorities and the disposal company in a suitable and licensed facility

13.2 Uncleaned packaging

Contaminated packaging should totally be emptied; it can be recycled after having been thoroughly cleaned.

Packaging which cannot be decontaminated should be disposed of like the product

SECTION 14: Transport information

	ADR / RID	IMDG	IATA
14.1 N° ONU		3106	
14.2 UN proper shipping name	PEROXYDE ORGANIQUE de type D, solide (Dibenzoyl peroxyde)		
14.3 Transport hazard classe label	5.2		
			
14.4 Packing Group	Non-applicable	Non-applicable	Non-applicable
14.5 Dangerous for Environment	Yes	Yes	Yes
14.6 Special precautions for users	Tunnel restriction : D Limited quantities: 500g	Limited quantities :500g	
14.7 Transport in bulk (annexe II MARPOL 73/78 ans IBC code)	Non-applicable		

SECTION 15: Regulatory information

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

Ozone depleting substances: Non applicable

Persistent organic Pollutants: Non applicable

Occupational restrictions: Note for juvenile. Note for pregnant woman and nursing mother (92/85/EEC)

Regulation REACH: EC 1907/2006

Regulation CLP: EC 1272/2008 on classification, labelling and packaging for substances and mixture

Regulation EU N° 453/2010 on safety data sheets

Candidate substances for authorization Regulation REACH: EC 1907/2006 Annex XIV: Non applicable

Specific provisions in terms of protecting people or the environment

It is recommended to use information included in this safety data sheet as data used in risk evaluation of the local circumstances in order to establish the necessary prevention measures for the manipulation, use, storage and disposal of this product

15.2 Chemical safety assessment

The supplier has not carried out evaluation of chemical safety

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SECTION 16: Other information

Legislation related to safety data sheets

This safety data sheet has been designed in accordance with the Regulation EC 1907/2006 (REACH) and the Regulation EC 453/2010 'Guide to the compilation of safety data sheets'.

Modifications on the safety data sheet

Writing of the document in accordance with regulation EC 1907/2006 and EC 1272/2008

Relevant H & R phrases from section 3

R3 - Extreme risk of explosion by shocks, friction, fire or other sources of ignition.

R3 - Extreme risk of explosion by shocks, friction, fire or other sources of ignition.

R7 - May cause fire

R36 - Irritating to eyes

R43 - May cause sensitisation by skin contact

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R53 - May cause long-term adverse effects in the aquatic environment

R62 - Possible risk of impaired fertility

H241 - Heating may cause a fire or explosion

H317 - May cause an allergic skin reaction

H319 - Cause serious eye irritation

H361fd - Suspected of damaging fertility or the unborn child

H400 - Very toxic for aquatic life

H412 - Harmful to aquatic life with long lasting effects

Advice related to training

Minimal training is recommended to prevent industrial risk 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.

Main bibliographical sources

<http://esis.jrc.ec.europa.eu>

<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

COD – Chemical Oxygen Demand

BOD5 – 5-day Biochemical Oxygen Demand

LD50 – Lethal Dose 50

LC50 – Lethal concentration 50

EC50 – Effective concentration 50

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.