

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 UltraGrip L240 Resin

Product Inclusion Part.1 of this document covers all colour variants in the Spectrum UltraGrip L240 MMA

Paint range – Base only.

Container Size 18kg

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

Identified UsesBase for road marking filler. Use only the hardener of the same reference. Respect the

dosage base/hardener indicated by the supplier. 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

1.4. Emergency Telephone Number

Emergency telephone +44 (0) 808 118 1922

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flam. Liq. 2: Flammable liquids, Category 2, H225 Skin Irrit. 2: Skin irritation, Category 2, H315 Skin Sens. 1: Sensitisation, skin, Category 1, H317

STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335

2.2. Label Elements

CLP Regulation (EC) no. 1272/2008







Signal word Danger

Hazard statement(s) H225 - Highly flammable liquid and vapour

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction 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 soap and water.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

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 2,2´-ethylenedioxydiethyl dimethacrylate, 2-ethylhexyl acrylate, Methacrylic

acid, monoester with propane-1,2-diol, Methyl methacrylate, n-butyl acrylate. EUH211: Warning! Hazardous respirable droplets may be formed when sprayed.

Do not breathe spray or mist.

Substances that contribute to

the classification

Methyl methacrylate (CAS: 80-62-6); n-butyl acrylate (CAS: 141-32-2); 2,2′-ethylenedioxydiethyl dimethacrylate (CAS: 109-16-0); 2-ethylhexyl acrylate (CAS: 103-

11-7)

Acute Toxicity Estimate (ATE mix)

25.25 % (oral) of the mixture consists of ingredient(s) of unknown toxicity

2.3. Other hazards

Product fails to meet PBT/vPvB criteria.

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance Not 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
CAS: 80-62-6	Methyl methacrylate ⁽¹⁾ Flam. Liq. 2: H225; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335 GHS02 GHS07 Dgr	₹	5 - <15 %
CAS: 141-32-2	n-butyl acrylate ⁽¹⁾ Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335 – Warning GHS02 GHS07 Wng	♦	5 - <15 %
CAS: 109-16-0	2,2 ´-ethylenedioxydiethyl dimethacrylate ⁽¹⁾ Skin Sens. 1: H317 - Warning	(1)	1 - <5 %
CAS: 103-11-7	2-ethylhexyl acrylate ⁽¹⁾ Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335 – Warning GHS07 Wng	(1)	1 - <5 %
CAS: 27813-02-1	Methacrylic acid, monoester with propane-1,2-diol ⁽¹⁾ Eye Irrit. 2: H319; Skin Sens. 1: H317 - Warning	(1)	<0.5 %
CAS: 38668-48-3	1,1'-(p-tolylimino)dipropan-2-ol ⁽¹⁾ Acute Tox. 2: H300; Aquatic Chronic 3: H412 Eye Irrit. 2: H319 - Danger		<0.5 %

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

SECTION 4: First aid measures

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

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			
	parcistant discomfort, showing the SDS of this product			

persistent discomfort, showing the SDS of this product.

InhalationRemove 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.

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

Not 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

Specific hazards As a result of combustion or thermal decomposition reactive sub-products are created

that can become highly toxic and, consequently, can present a serious health risk.

5.3. Advice for firefighters

Advice or firefighters Depending on the magnitude of the fire it may be necessary to use full protective

clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit) in accordance

with Directive 89/654/EC.

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

<u>6.1. Personal precautions, protective equipment and emergency procedures</u>

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place.

Do not absorb in sawdust or other combustible absorbents. For any concern related to

disposal consult section 13.

6.4. Reference to other sections

Reference to other sections

See sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions on safe handling

Precautions for safe manipulation

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

Technical recommendations for the prevention of fires and explosions

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

Technical recommendations to prevent ergonomic and toxicological risks

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

Technical recommendations to prevent environmental risks

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

7.2. Conditions for safe storage, including any incompatibilities.

Technical measures for storage Minimum Temp.: 5 °C

Maximum Temp.: 30 °C

Maximum Time.: 6 months

General conditions for storage

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

7.3. Specific end use(s)

Specific end use(s)

Except for the instructions already specified it is not necessary to provide any special

recommendation regarding the uses of this product.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Substances whose occupational exposure limits have to be monitored in the workplace:

Identification	Environmental limits		
Methyl methacrylate	IOELV (8h)	50 ppm	208 mg/m ³
CAS: 80-62-6	IOELV (STEL)	100 ppm	416 mg/m³
n-butyl acrylate	IOELV (8h)	1 ppm	5 mg/m³
CAS: 141-32-2	IOELV (STEL)	5 ppm	26 mg/m³

DNEL (Workers):

Ldoublift and an		Short exposure		Long ex	posure
Identification		Systemic	Local	Systemic	Local
Methyl methacrylate	Oral	Not applicable	Not applicable	Non-applicable	Not applicable
CAS: 80-62-6	Dermal	Not applicable	Not applicable	13.67 mg/kg	Not applicable
EC: 201-297-1	Inhalation	Not applicable	416 mg/m ³	348.4 mg/m ³	208 mg/m ³
n-butyl acrylate	Oral	Not applicable	Not applicable	Not applicable	Not applicable
CAS: 141-32-2	Dermal	Not applicable	Not applicable	Not applicable	Not applicable
EC: 205-480-7	Inhalation	Not applicable	Not applicable	Not applicable	11 mg/m³
2,2´-ethylenedioxydiethyl	Oral	Not applicable	Not applicable	Not applicable	Not applicable
dimethacrylate	Dermal	Not applicable	Not applicable	13.9 mg/kg	Not applicable
CAS: 109-16-0 EC: 203-652-6	Inhalation	Not applicable	Not applicable	48.5 mg/m³	Not applicable
2-ethylhexyl acrylate	Oral	Not applicable	Not applicable	Not applicable	Not applicable
CAS: 103-11-7	Dermal	Not applicable	Not applicable	6.5 mg/kg	Not applicable
EC: 203-080-7	Inhalation	Not applicable	38 mg/m³	Not applicable	38 mg/ m³
Methacrylic acid, monoester	Oral	Not applicable	Not applicable	Not applicable	Not applicable
with propane-1,2-diol	Dermal	Not applicable	Not applicable	4.2 mg/kg	Not applicable
CAS: 27813-02-1 EC: 248-666-3	Inhalation	Not applicable	Not applicable	14.7 mg/m³	Not applicable
1,1'-(p-tolylimino)dipropan-2-ol	Oral	Not applicable	Not applicable	Not applicable	Not applicable
CAS: 38668-48-3	Dermal	Not applicable	Not applicable	0.7 mg/kg	Not applicable
EC: 254-075-1	Inhalation	Not applicable	Not applicable	2.47 mg/m ³	Not applicable

DNEL (General population):

I dan Affirmation		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Methyl methacrylate	Oral	Not applicable	Not applicable	8.2 mg/kg	Not applicable
CAS: 80-62-6	Dermal	Not applicable	Not applicable	8.2 mg/kg	Not applicable
EC: 201-297-1	Inhalation	Not applicable	208 mg/m³	74.3 mg/m³	104 mg/m³
	Oral	Not applicable	Not applicable	8.33 mg/kg	Not applicable

2,2´-ethylenedioxydiethyl	Dermal	Not applicable	Not applicable	8.33 mg/kg	Not applicable
dimethacrylate CAS: 109-16-0 EC: 203-652-6	Inhalation	Not applicable	Not applicable	14.5 mg/kg	Not applicable
2 salvelle soud a soudate	Oral	Not applicable	Not applicable	0.23 mg/kg	Not applicable
2-ethylhexyl acrylate CAS: 103-11-7	Dermal	Not applicable	Not applicable	2.34 mg/kg	Not applicable
EC: 203-080-7	Inhalation	Not applicable	Not applicable	Not applicable	4.5 mg/m ³
Methacrylic acid, monoester	Oral	Not applicable	Not applicable	2.5 mg/kg	Not applicable
with propane-1,2-diol	Dermal	Not applicable	Not applicable	2.5 mg/kg	Not applicable
CAS: 27813-02-1 EC: 248-666-3	Inhalation	Not applicable	Not applicable	8.8 mg/m³	Not applicable
1,1'-(p-tolylimino)dipropan-2-ol	Oral	Not applicable	Not applicable	0.25 mg/kg	Not applicable
CAS: 38668-48-3	Dermal	Not applicable	Not applicable	Not applicable	Not applicable
EC: 254-075-1	Inhalation	Not applicable	Not applicable	Not applicable	Not applicable

DNEC.

PNEC:				
Identification				
	STP	10 mg/L	Fresh water	0.94 mg/L
Methyl methacrylate CAS: 80-62-6	Soil	1.48 mg/kg	Marine water	0.094 mg/L
EC: 201-297-1	Intermittent	0.94 mg/L	Sediment (Fresh water)	10.2 mg/kg
20. 201 237 1	Oral	Not applicable	Sediment (Marine water)	0.102 mg/kg
	STP	3.5 mg/L	Fresh water	0.003 mg/L
n-butyl acrylate CAS: 141-32-2	Soil	1 mg/kg	Marine water	0 mg/L
EC: 205-480-7	Intermittent	0.011 mg/L	Sediment (Fresh water)	0.034 mg/kg
20. 203 100 7	Oral	Not applicable	Sediment (Marine water)	0.003 mg/kg
2,2´-ethylenedioxydiethyl	STP	1.7 mg/L	Fresh water	0.016 mg/L
dimethacrylate	Soil	0.027 mg/kg	Marine water	0.002 mg/L
CAS: 109-16-0	Intermittent	0.016 mg/L	Sediment (Fresh water)	0.185 mg/kg
EC: 203-652-6	Oral	Not applicable	Sediment (Marine water)	0.018 mg/kg
	STP	2.3 mg/L	Fresh water	0.00272 mg/L
2-ethylhexyl acrylate CAS: 103-11-7	Soil	1 mg/kg	Marine water	0.000272 mg/L
EC: 203-080-7	Intermittent	0.011 mg/L	Sediment (Fresh water)	0.108 mg/kg
20. 200 000 /	Oral	Not applicable	Sediment (Marine water)	0.0108 mg/kg
Methacrylic acid, monoester	STP	10 mg/L	Fresh water	0.904 mg/L
with propane-1,2-diol	Soil	0.727 mg/kg	Marine water	0.904 mg/L
CAS: 27813-02-1	Intermittent	0.972 mg/L	Sediment (Fresh water)	6.28 mg/kg
EC: 248-666-3	Oral	Not applicable	Sediment (Marine water)	6.28 mg/kg
1,1'-(p-tolylimino)dipropan-	STP	199.5 mg/L	Fresh water	0.017 mg/L
2-ol	Soil	0.023 mg/kg	Marine water	0.002 mg/L
CAS: 38668-48-3	Intermittent	0.17 mg/L	Sediment (Fresh water)	0.163 mg/kg
EC: 254-075-1	Oral	Not applicable	Sediment (Marine water)	0.016 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.

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 420:2003+A1:2009 and EN ISO 374-1:2016

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.

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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

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 >100 °C

pressure

Vapour pressure at 40 °C 6469 Pa

Vapour pressure at 50 °C 10245.59 Pa (10.25 kPa)

Evaporation rate at 40 °C Not applicable *

Product description

Density at 40 °C 1815.1 kg/m³ Relative density at 40 °C <1.765 - 1.865 Dynamic viscosity at 40 °C Not applicable * Kinematic viscosity at 40 °C Not applicable * Concentration Not applicable * рΗ Not applicable * Vapour density at 20 °C Not applicable * Partition coefficient n-Not applicable * octanol/water at 20 °C

Solubility in water at 20 °C

Solubility properties

Decomposition temperature

Melting point/Freezing point

Explosive properties

Not applicable *

Not applicable *

Not applicable *

Oxidising properties Not applicable *

Flammability

Flash point 22 °C

Flammability (solid, gas) Not applicable *

Autoignition temperature >258 °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 40 °C Not applicable *
Refraction index Not applicable *

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
Avoid strong acids	ног аррпсаые	Avoid direct impact	Пос аррпсавле	strong bases

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

Dangerous health implications

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

Ingestion (acute effect)

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

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, as it does not contain

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)

Contact with the skin Contact with the eyes

Produces skin inflammation.

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.

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-butyl acrylate (3); N,N-dimethyl-p-toluidine (2B); 2-ethylhexyl

acrylate (3); Titanium dioxide (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. 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

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

Specific target organ toxicity (STOT) - single exposure Specific target organ toxicity

(STOT)-repeated exposure

Aspiration hazard

Skin

Prolonged contact with the skin can result in episodes of allergic contact dermatitis. Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

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. 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. 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.

Other information Not applicable.

Specific toxicology information on the substances

peditie toxicology information on the outstander					
Identification	Acute toxicity	Acute toxicity			
Methyl methacrylate	LD50 oral	5000 mg/kg	Rat		
CAS: 80-62-6	LD50 dermal	5000 mg/kg	Rabbit		
	LC50 inhalation	29.8 mg/L (4 h)	Rat		
2-ethylhexyl acrylate	LD50 oral	4435 mg/kg	Rat		

CAS: 103-11-7	LD50 dermal	7552 mg/kg	
	LC50 inhalation	Not applicable	
1,1´-(p-tolylimino)dipropan-2-ol	LD50 oral	25 mg/kg	Rat
CAS: 38668-48-3	LD50 dermal	Not applicable	
	LC50 inhalation	Not applicable	
2,2´-ethylenedioxydiethyl dimethacrylate	LD50 oral	10837 mg/kg	Rat
CAS: 109-16-0	LD50 dermal	Not applicable	
	LC50 inhalation	Not applicable	
n-butyl acrylate	LD50 oral	4000 mg/kg	
CAS: 141-32-2	LD50 dermal	Not applicable	
	LC50 inhalation	Not applicable	
Methacrylic acid, monoester with	LD50 oral	11200 mg/kg	Rat
propane-1,2-diol	LD50 dermal	>5000 mg/kg	Rabbit
CAS: 27813-02-1	LC50 inhalation	Not applicable	

Acute Toxicity Estimate (ATE mix)

ATE mix		Ingredient(s) of unknown toxicity
Oral	10541.23 mg/kg (Calculation method)	25.25%
Dermal	>5000 mg/kg (Calculation method)	Not applicable
Inhalation	>20 mg/L (4 h) (Calculation method)	Not applicable

SECTION 12: Ecological information

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

12.1. Toxicity

Acute toxicity:

Identification	Acut	e toxicity	Species	Genus
Methyl methacrylate	LC50	191 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 80-62-6	EC50	69 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	170 mg/L (96 h)	Selenastrum capricornutum	Algae
n-butyl acrylate	LC50	5.2 mg/L (96 h)	Salmo gairdneri	Fish
CAS: 141-32-2	EC50	230 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	5.5 mg/L (96 h)	Selenastrum capricornutum	Algae
2,2´-ethylenedioxydiethyl	LC50	16.4 mg/L (96 h)	Danio rerio	Fish
dimethacrylate	EC50	Not applicable		
CAS: 109-16-0	EC50	Not applicable		
Methacrylic acid, monoester	LC50	833 mg/L (96 h)	Scophthalmus maximus	Fish
with propane-1,2-diol	EC50	210 mg/L (48 h)	Acartia tonsa	Crustacean
CAS: 27813-02-1	EC50	Not applicable		
	LC50	17 mg/L (96 h)	Brachydanio rerio	Fish

1,1´-(p-tolylimino)dipropan-	EC50	28.8 mg/L (48 h)	Daphnia magna	Crustacean
2-ol CAS: 38668-48-3	EC50	245 mg/L (72 h)	Desmodesmus subspicatus	Algae

Chronic toxicity:

Identification		Concentration	Species	Genus
Methyl methacrylate	NOEC	9.4 mg/L	Danio rerio	Fish
CAS: 80-62-6	NOEC	37 mg/L	Daphnia magna	Crustacean
n-butyl acrylate	NOEC	Not applicable		
CAS: 141-32-2	NOEC	0.136 mg/L	Daphnia magna	Crustacean
2,2´-ethylenedioxydiethyl dimethacrylate	NOEC	Not applicable		
CAS: 109-16-0	NOEC	32 mg/L	Daphnia magna	Crustacean
Methacrylic acid, monoester with propane-1,2-diol	NOEC	Not applicable		
CAS: 27813-02-1	NOEC	45.2 mg/L	Daphnia magna	Crustacean

12.2. Persistence and degradability

Identification	Degra	dability	Biodegradabi	lity
Methyl methacrylate	BOD5	Not applicable	Concentration	100 mg/L
CAS: 80-62-6	COD	Not applicable	Period	14 days
	BOD5/COD	Not applicable	% Biodegradable	94.3 %
n-butyl acrylate	BOD5	Not applicable	Concentration	100 mg/L
CAS: 141-32-2	COD	Not applicable	Period	14 days
	BOD5/COD	Not applicable	% Biodegradable	61.3 %
2,2´-ethylenedioxydiethyl	BOD5	Not applicable	Concentration	10 mg/L
dimethacrylate	COD	Not applicable	Period	28 days
CAS: 109-16-0	BOD5/COD	Not applicable	% Biodegradable	85 %
Methacrylic acid,	BOD5	Not applicable	Concentration	Non-applicable
monoester with propane-	COD	Not applicable	Period	Non-applicable
1,2-diol CAS: 27813-02-1	BOD5/COD	Not applicable	% Biodegradable	81 %

12.3. Bioaccumulative potential

Identification	Bioaccumulation potential		
Methyl methacrylate	BCF	7	
CAS: 80-62-6	Pow Log	1.38	

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	Potential	Low
n-butyl acrylate	BCF	37
CAS: 141-32-2	Pow Log	2.36
	Potential	Moderate
Methacrylic acid, monoester with propane-1,2-diol	BCF	3
CAS: 27813-02-1	Pow Log	0.97
	Potential	Low

12.4. Mobility in soil

Identification	Absorpti	on/desorption	Volat	ility
Methyl methacrylate	Кос	Not applicable	Henry	Not applicable
CAS: 80-62-6	Conclusion	Non-applicable	Dry soil	Not applicable
	Surface tension	2.551E-2 N/m (25 °C)	Moist soil	Not applicable
n-butyl acrylate	Кос	Not applicable	Henry	Not applicable
CAS: 141-32-2	Conclusion	Not applicable	Dry soil	Not applicable
	Surface tension	2.598E-2 N/m (25 °C)	Moist soil	Not applicable
2,2'-	Кос	78	Henry	9.26E-6 Pa·m³/mol
ethylenedioxydiethyl	Conclusion	High	Dry soil	No
dimethacrylate CAS: 109-16-0	Surface tension	Not applicable	Moist soil	No
2-ethylhexyl acrylate	Кос	Not applicable	Henry	Not applicable
CAS: 103-11-7	Conclusion	Not applicable	Dry soil	Not applicable
	Surface tension	2.58E-2 N/m (25 °C)	Moist soil	Not applicable
Methacrylic acid,	Кос	80	Henry	9E-4 Pa·m³/mol
monoester with	Conclusion	High	Dry soil	Not applicable
propane-1,2-diol CAS: 27813-02-1	Surface tension	Not applicable	Moist soil	Not applicable
1,1´-(p-	Кос	10	Henry	3.98E-5 Pa·m³/mol
tolylimino)dipropan-2-ol	Conclusion	Very High	Dry soil	No
CAS: 38668-48-3	Surface tension	Not applicable	Moist soil	No

12.5. Results of PBT and vPvB assessment

Product fails to meet PBT/vPvB criteria.

12.6. Other adverse effects

Not described.

SECTION 13: Disposal considerations

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

13.1. Waste treatment methods

Code 08 01 11*

Description waste paint and varnish containing organic solvents or other hazardous substances

Waste class (Regulation (EU) No Dangerous

1357/2014)

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 3 IATA/ICAO 2019 **Transport Labels**



14.4. Packing group

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

14.5. Environmental hazards

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

14.6. Special precautions for user

ADR 2019 and RID 2019

Special regulations 367, 163 **Physico-Chemical properties** See Section 9

IMDG 38-16

Special regulations367, 163EmS codeF-E, S-EPhysico-Chemical propertiesSee Section 9

Limited quantities 5 L

Segregation group Not applicable

IATA/ICAO 2019

Physico-Chemical properties See Section 9 **Segregation group** Not applicable

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.

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.

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 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

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. 2: H300 - Fatal if swallowed

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

Eye Irrit. 2: H319 - Causes serious eye irritation

Flam. Liq. 2: H225 - Highly flammable liquid and vapour

Flam. Liq. 3: H226 - Flammable liquid and vapour

Skin Irrit. 2: H315 - Causes skin irritation

Skin Sens. 1: H317 - May cause an allergic skin reaction STOT SE 3: H335 - May cause respiratory irritation

Classification procedure Skin Irrit. 2: Calculation method

Skin Sens. 1: Calculation method STOT SE 3: Calculation method

Flam. Liq. 2: Calculation method (2.6.4.3)

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

Log-POW: Octanol—water partition coefficient Koc: Partition coefficient of organic carbon

Disclaimer

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



SAFETY DATA SHEET - Part.2 of 3.

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 MMA Resin Peroxide – 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 Catalyst Part B

Respect the dosage Part B/hardener indicated by the supplier.

Professional use only

Uses advised againstNo specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier Meon Ltd.

Railside

Northarbour Spur Portsmouth PO6 3TU

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

1.4. Emergency Telephone Number

Emergency telephone +44 (0) 808 118 1922

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to regulation EC1272/2008 and amendments

Org. Perox. D Category D - H242

SKIN Sens. 1 – Hazard category 1 – H317 Eye Irrit. 2 – Hazard category 2 – H319

Aquatic Acute. 1 – Hazard category 1 – H400 Aquatic Chronic. 1 – Hazard. Category 1 – H410

Repr. 1B - Hazard Category 1B - H360D

2.2. Label Elements

Hazard pictograms



Signal word Danger

H-statement(s) H242 – Heating may cause a fire.

H317 – May cause an allergic skin reaction.H319 – Causes serious eye irritation.H360D May damage the unborn child.

H410 Very toxic to aquatic life with long lasting effects

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

P220 Keep away from strong acids, bases, heavy metals salts and other.

reducing substances.

P234 Keep only in original container. P261 Avoid breathing dust/vapours. P273 – Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove cc

lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P501 - Dispose of contents/container in accordance with local and national regulation

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

SUBSTANCE [] MIXTURE [X]

Dangerous component(s)

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

201-545-9 01-2119978223-34-0000	607-719-00-4	Skin Sens. 1, H317 Repr. 1B, H360D Aquatic Chronic 3, H412	47.5-51%
		GHS08 GHS07 Dgr	
112926-00-8		Not classified	<0.5%
231-545-4	-	NOT Classified	
0 1 7 2	1-2119978223-34-0000 12926-00-8 631-86-9	1-2119978223-34-0000 12926-00-8 631-86-9 31-545-4	01-545-9 1-2119978223-34-0000 Repr. 1B, H360D Aquatic Chronic 3, H412 GHS08 GHS07 Dgr 12926-00-8 631-86-9 31-545-4 Not classified

SECTION 4: First aid measures

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

4.1. Description of first aid measures

In case of inhalation: Move immediately subject to fresh air and keep him calm.

Place the victim in a position where it can easily breathe.

If breathing is difficult, seek medical attention.

In case of skin contact: Wash immediately with non-abrasive soap and plenty of water, at least 15 minutes. If

skin irritation persists, consult a doctor.
Wash contaminated clothing before re-using.

In case of eye contact: Rinse immediately with plenty of water for at least 15 minutes, holding eyelids open.

If the person uses contact lenses, remove them with caution.

Quickly consult a specialist if irritation persists.

In case of ingestion: Do not induce vomiting. Get medical attention immediately.

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

Sensitization of the skin - redness, swelling, irritation of the eyes.

Suspected of damaging fertility or the unborn child

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media water spray, carbon dioxide, foam, sand.

Extinguishing media which must

not be used for safety reasons

Do not use halons.

5.2. Special hazards arising from the substance or mixture

Specific hazards during

firefighting

Contains substances that may result in explosion caused by heat.

The product decomposes in an explosive way from 60°C.

The products of decomposition must be considered as potentially dangerous and precautions must be taken in consequences (mix of benzene, benzoic acid, biphenyl, phenyl benzoate, carbon dioxide).

5.3. Advice for firefighters

Special protective equipment for firefighting.

Wear full firefighting protective clothing and self-contained breathing

apparatus

Use water spray to keep fire-exposed containers cool.

Do not allow fire extinguishing water to contaminate surface or

groundwater systems.

Further information Extinguish a small fire with powder or carbon dioxide then apply water to

prevent re-ignition, containers and equipment located near the fire should be cooled with water; water used to extinguish fire should not get into the

sewer system and waterways.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

Reference to other sections

See section 8 for information on personal protection equipment.

See section 13 for disposal information.

SECTION 7: Handling and storage

7.1. Precautions on safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

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

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

7.3. Specific and uses

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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

Dibenzoyle peroxide

NDS - 5 mg/m3

NDSCH - 10 mg/m3

TWA - 5 mg/m3

DNEL for workers (Chronic exposure by inhalation systemic) 39 mg/m3.

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

DNEL for workers (dermal chronic, local): 34 μg/cm2

Dicyclohexyl phthalate

NDS: not determined. NDSCh: not determined.

DNEL for employee (chronic exposure by inhalation, systemic): 35.2 mg/m3

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

DNEL general population (chronic exposure by inhalation, systemic): 0.87 mg/m3 DNEL general population (chronic exposure through the skin, systemic): 0.25 mg/kg/day

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

Silicon dioxide obtained by chemical transformation

total dust – NDS - 10 mg/m3 respirable dust- NDS - 2 mg/m3

8.2. Exposure controls

8.2.1. Appropriate engineering controls

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

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

Eye/face protection Use safety goggles or face protection from plexiglass.

Skin protection Use appropriate protective antistatic clothing.

Hand protectionUse appropriate protective gloves of synthetic rubber like neoprene or butyl-rubber

(thickness: 0.5 mm, rupture time > 8h).

Respiratory protection Use short duration filter unit: Filter A

Thermal hazards in normal work condition no thermal hazard.

Hygiene at the work General regulations on hygiene. Do not allow them to cross in the workplace environment,

regulatory exposure limits. After working Remove contaminated clothing - not to take

 $home. \ Do \ not \ eat, \ drink \ or \ smoke \ in \ the \ production \ and \ storage \ facilities.$

After work, wash your hands each time.

8.2.3. Environmental exposure controls

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

Dibenzoyl peroxide:

PNEC freshwater: 0.02 μg / I PNEC sea water: 0.002 μg / I

PNEC sediment-freshwater: 0.013 mg / kg PNEC sediment-see water: 0.001 mg / kg

PNEC soil: 0.002 mg / kg soil PNEC STP: 0.35 mg / l

Dicyclohexyl phthalate:

PNEC: freshwater water: 0.00362 mg/l PNEC sea water: 0.000362 mg/l PNEC periodic release: 0.0362 mg/l PNEC sediment- see water: 1.06 mg/kg

PNEC soil: 0.21 mg/kg PNEC STP: 10 mg/

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance- Colour - Odour Solid. Powdery – White - faint odour

pH Ca. 7

Boiling Point [°C]

Flash point

Evaporate Rate

Solubility in water

Flammable limits

Vapour pressure

Relative vapour density (related

Not determined.

Not determined.

Not applicable.

Not applicable.

630kg/ m3

to air)

Gravity 620 kg/m3 - 20°C **Partition coefficient (n**- Not determined.

octanol/water)

Auto ignition temperature Not determined.

Decomposition temperature +55°C

Viscosity Not applicable.

Explosive propertiesOne component (benzoyl peroxide is explosive)

Oxidising properties Organic peroxide

9.2. Other information

Active oxygen content: 3.24 - 3.47%

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

under heat rapidly disintegrate.

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

Avoid high temperatures, light, pollution, rust.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

Acute Toxicity

Chemical name: DIBENZOYL PEROXIDE

Oral: no adverse effect observed

DNEL: 2000 mg/kg bw; LD50(mouse): > 2000 mg/kg

Dermal: no study available

Skin corrosion/irritation: No adverse effect observed – not irritant

Serious eye Adverse effect observed – irritant

damage/irritation:

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 STOT – repeated exposure Not classified based on available information 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/cm2 (mouse, chronic) Inhalation (systemic, local): no data available Not classified based on available information.

Aspiration hazard

Chemical name: DICYCLOHEXYL PHTHALATE Acute toxicity: LD50 (rat):> 2000 mg / kg

Skin corrosion/irritation: Serious eye

Not present – not classified

damage/irritation:

Eyes - slight irritation - not classified

Respiratory or skin

Possible sensitization by skin contact

sensitisation:

Germ cell mutagenicity:

Does not occur Does not occur

Carcinogenicity: Reproductive toxicity:

may damage the unborn child

rat 240 ppm NOAEL

STOT – single exposure

STOT - repeated

No data available No data available

exposure

Repeated dose toxicity

NOAEL rat, 50 mg/kg bw../day

Aspiration hazard

No data available

SILICON DIOXIDE OBTAINED BY CHEMICAL TRANSFORMATION

Acute toxicity:

oral - LD50 (rat):> 10000 mg / kg inhalation - LC0 (rat, 4h): 0.139 mg / I skin - LC50(rabbit): > 5000 mg / kg

Skin corrosion/irritation: Serious eve

Not present - not classified

damage/irritation:

Not present - not classified

Respiratory or skin sensitisation:

Not present - not classified

Germ cell mutagenicity:

Does not occur Carcinogenicity: Does not occur Reproductive toxicity: Does not occur No data available STOT – single exposure No data available STOT - repeated

exposure

Repeated dose toxicity No data available No data available **Aspiration hazard**

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SECTION 12: Ecological information

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

12.1. Toxicity

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

12.2. Persistence and degradability

DIBENZOYL PEROXIDE:

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

DICYCLOHEXYL PHTHALATE:

readily biodegradable - 91% - 28 days

12.3. Bioaccumulative potential

DIBENZOYL PEROXIDE:

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

DICYCLOHEXYL PHTHALATE:

Potential low Ig Pow 4.82 (25oC)

BCF: 85 - 90

12.4. Mobility in soil

DIBENZOYL PEROXIDE:

Koc = 6310 at temp. 20oC

DICYCLOHEXYL PHTHALATE:

substance is insoluble.

log Koc=3.46 w temp. 20oC

12.5. Results of PBT and vPvB assessment

This product does not contain any BPT or vPvB substance.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

SECTION 14: Transport information

	ADR / RID	IMDG	IATA		
14.1 N° ONU	·	3106			
14.2 UN proper shipping name	PEROXYDE ORGA	nzoyle 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)	Not authorized for carriage in bulk				

SECTION 15: Regulatory information

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

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

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

European Agreement Concerning the International Carriage of Dangerous Goods by Road, 2019 Candidate List SVHC, updated on 16/01/2020:

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

15.2 Chemical safety assessment

Data not available.

SECTION 16: Other information

Relevant H & R phrases from section3

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

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H410 Very toxic to aquatic life with long lasting effects H412 Harmful to aquatic life with long lasting effects

Abbreviations and acronyms

Explanation of abbreviations / acronyms

BCF - Bio Concentration Factor

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

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

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

NOAEL - no observable adverse effect level

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

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

Training: Those involved in trading a hazardous substance should be trained in the handling, safety and hygiene. Drivers should be trained and obtain proper certification in accordance with the requirements of ADR.

Disclaimer

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



SAFETY DATA SHEET - Part.3

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 Aggregate 0.9–1.4mm Buff Bauxite

Product Inclusion Part.3 of this document covers Aggregate 0.9–1.4mm Buff Bauxite only.

Container Size 2kg

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

Identified Uses Refractory raw material, road surfacing aggregate, welding.

Uses advised againstNo specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier Meon Ltd.

Railside

Northarbour Spur Portsmouth PO6 3TU

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

1.4. Emergency Telephone Number

Emergency telephone +44 (0) 808 118 1922

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Product definition: UVCB

Classification according to Classification, Labeling & Packaging Regulation (EC) 1272/2008

Not classified.

Ingredients of unknown toxicity: Percentage of the mixture consisting of ingredients of unknown toxicity: 100% Ingredients of unknown toxicity: Percentage of the mixture consisting of ingredients of unknown hazards to aquatic

environment: 100%

Classification according to Directive 67/548/EEC

Not classified.

See section 16 for the full text of the R phrases or H statements declared above. See section 11 for more detailed information on health effects and symptoms.

2.2. Label Elements

Hazard pictograms

Not applicable.

Signal word

No signal word.

Hazard statements

No known significant effects or critical hazards.

Precautionary statements

Prevention: Not applicable
Response: Not applicable
Storage: Not applicable
Disposal: Not applicable

2.3. Other hazards

Substance meets the criteria for PBT according to regulation (EC) N° 1907/2006, Annex XIII. Not applicable Substance meets the criteria for vPvB according to regulation (EC) N° 1907/2006, Annex XIII. Not applicable Other hazards which do not result in classification: Dust contains respirable crystalline silica. Prolonged and or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness. Occupational exposure to respirable dust should be monitored and controlled. The product should be handled using methods and techniques that minimize or eliminate dust generation. The product contains less than 1 % w/w RCS (respirable crystalline silica) as determined by the SWERF method. The respirable crystalline silica content can be measured using the "Size-Weighted Respirable Fraction- SWERF" method. All details about the SWERF method is available at www.crystallinesilica.eu .

SECTION 3: Composition/information on ingredients

SUBSTANCE [] MIXTURE [X]

Substance/mixture: Multi constituent substance

Ingredient	EC No:	R-Phrases	Concentration	Туре
	Cas No:	CLP Hazard Statements		
Bauxite(*)	296-579-9	Not classified	100%	[*]
	92797-42-7	Not classified		
Aluminium Oxide(A)	215-691-6	Not classified	>85%	[A]
	1344-28-1	Not classified		
Quartz(SiO2)(B)	238-878-4	Not classified	<10%	[B]
	14808-60-7	Not classified		
Titanium oxide(B)	236-675-5	Not classified	<5%	[B]
	13463-67-7	Not classified		
Diiron trioxide(B)	215-168-2	Not classified	<3%	[B]
	1309-37-1	Not classified		

There are no additional ingredients present which, within the current knowledge are classified and contribute to the classification of the substance and hence require reporting in this section.

Other Information

None.

[*] Substance

[A] Constituent

[B] Impurity

Occupational exposure limits, if available, are listed in section 8.

SECTION 4: First aid measures

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

4.1. Description of first aid measures

In case of inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention if symptoms occur.

In case of skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur wash skin with soap and water. or Rinse with water. In the event of a visible skin change or other complaints, seek medical

advice (show label or SDS where possible).

In case of eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for any to remove any contact lenses. Get medical attention if irritation

occurs.

In case of ingestion: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position

comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Self-protection of the first aider: No action shall be taken involving any personal risk or without suitable training.

4.2. Most important symptoms and effects, both acute and delay

No known significant effects or critical hazard.

Over-exposure signs/symptoms

No specific data

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

 $Treat\ symptomatically.\ Contact\ poison\ treatment\ specialist\ immediately\ if\ large\ quantities\ have\ been\ ingested\ or\ inhaled.$

Specific treatment

No specific treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguishing media which must not be used for safety reasons Use an extinguishing agent suitable for the surrounding fire.

None known.

5.2. Special hazards arising from the substance or mixture

Specific hazard No specific hazard.

5.3. Advice for firefighters

Special protective measures in

fire

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action should be taken involving any personal

risk or without suitable training. Move containers from fire area if this can

be done without risk.

Special equipment for fire-

fighters

Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated in

positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European Standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

No action shall be taken involving any personal risk or without suitable training.

Keep unnecessary and unprotected personnel from entering. Do not touch or walk through split material. Avoid breathing dust. Put on appropriate personal protective equipment. No smoking.

For emergency responders:

If specialised clothing is required to deal with the spillage, take note of any information in section 8 on suitable or unsuitable materials. See also information in "for non-emergency personnel".

6.2. Environmental precautions

Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways or air).

6.3. Methods and material for containment and cleaning up

Small spill:

Move containers from spill area. Vacuum or sweep up material and place in a designated labelled waste container. Dispose of via a licensed waste disposal contractor.

Large spill:

Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements, or confined areas. Vacuum or sweep up material and place in designated labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note see section 1 for emergency contact information and section 13 for waste disposal.

6.4. Reference to other sections

See section 1 for emergency contact information

See section 8 for information on appropriate personal protective equipment.

See section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1. Precautions on safe handling

Put on appropriate personal protective equipment (see section 8). Avoid breathing dust. Avoid creating dusty conditions and prevent wind dispersal. Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

7.2. Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in segregated and approved area. Store in original container and protect from direct sunlight in a dry, cool and well ventilated area away from incompatible materials (see section 10) and food and drink. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3. Specific end uses

No specific advice for end use available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ingredients with Occupational Exposure Limits (OEL)

Name	LTEL ppm	STEL ppm	STEL mg/m3	LTEL mg/m3	OEL Note
Aluminium oxide				4(Resp.) 10(Inh.)	WEL
Titanium oxide				4(Resp) 10(Inh)	WEL

Quartz		0.1(Resp)	WEL
Diiron trioxide		4(Resp)	WEL
		10(Inh)	

Recommended monitoring procedures: If this product ingredient with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other. control measures and/or necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Derived effect levels

No DELs available

Predicted effect concentrations

No PECs available

8.2. Exposure controls

Engineering measures No special ventilation requirements. Good general ventilation

should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep

worker exposure below any recommended or statutory limits.

Hygiene measures Wash hands, forearms and face thoroughly after handling chemical

products before eating, smoking and using lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are closed to the

workstation location.

Respiratory equipment Use a properly fitted air-purifying or air feed respirator complying with an

approved standard if a risk assessment indicates this is necessary.

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the safe

respirator.

Eye/face protection Safety eyewear complying with an approved standard should be used

when a risk assessment indicated this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If operating conditions cause high

dust concentrations to be produced, use dusts goggles.

Hand protection Chemical-resistant, impervious gloves complying with an approved

standard should be worn at all times when handling chemical products

if a risk assessment indicated this is necessary.

Body protection Personal protective equipment for the body should be selected based

on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

Skin protection Appropriate footwear and any additional skin protection measures

should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this

product.

Environmental exposure Emissions from ventilation and work process equipment should be checked

to ensure they comply with the requirements of environmental protection

legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce

emissions to acceptable levels.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical state Solid {powder, granular particles or aggregate}

Colour Yellow/ Beige/ Grey

Odour Odourless Melting point/freezing point >2000°C **Relative density** >3.1g/cm3 Solubility(ies) Insoluble in water

9.2. Other information

None.

SECTION 10: Stability and reactivity

10.1. Reactivity

No specific test data related to reactivity available for this product or Its ingredients.

10.2. Chemical stability

The product is stable.

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

No specific data.

10.5. Incompatible materials

Not applicable.

Sensitiser

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition Products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Name According to EEC	Oral LD50 (RAT)	Inhale LD50 (RAT)	Dermal LD50 (RBT)
Titanium dioxide	>60g/kg		

No known significant effects or critical hazards. No known significant effects or critical hazards. Mutagenicity No known significant effects or critical hazards. Cancerogenicity Reproductive toxicity No known significant effects or critical hazards. **Teratogenicity** No known significant effects or critical hazards. STOT SE Not available. **Aspiration hazard** Routes of entry anticipated. Oral, inhalation Potential acute health effects No known significant effects or critical hazards. Symptoms related to the physical, chemical and No known significant effects or critical hazards

toxicological characteristics

Delayed and immediate effects and also chronic effects

from short and long term exposure

Potential chronic health effects Not available

SECTION 12: Ecological information

12.1. Toxicity

Ingredient	Result	Species	Exposure
Titanium dioxide	Acute EC50 5.83mg/l	Algae-Pseudokirchneriella	72h
	Fresh water	Subsantita-Exponential growth phases	
	Acute EC50>10mg/l	Dapnia-Daphnia magna<24hours	48h
	Fresh water		
	Acute LC50 5.5ppm	Daphnia-Dapnia magna-Juvenille	48h
	Fresh water	(Fledging,hatchling,weanling)<24h	
	Acute LC50> 10mg/l	Fish-Fundulus hetteroclitus	96h
	Marine water		

Not available.

Chronic NOEC 1 ppm Fresh water	Daphnia-Saphnia magna –Juvenille (Fledging,hatchling,weanling)<24h	48h
Chronic NOEC 500ppm Fresh water	Daphnia-Saphnia magna –Juvenille (Fledging,hatchling,weanling)<24h	48h

Conclusion/summary: No known significant effects or critical hazards.

12.2. Persistence and degradability

Not readily biodegradable.

12.3. Bioaccumulative potential

No information.

12.4. Mobility in soil

Not available.

12.5. Results of PBT and vPvB assessment

Not applicable.

12.6. Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product

Methods of disposal:

The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Hazardous waste:

Within the present knowledge of the supplier, this product is not regarded as Hazardous waste, as defined by EU Directive 91/689EEC.

Packaging

Methods of disposal:

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration of landfill should only be considered when recycling i.e., not feasible.

Special precautions:

This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

Not regulated and not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) n° 1907/2006 (REACH)

Annex XIV – List of substances subject to authorisation.

Substances of very high concern

None of the components are listed.

Annex XVII – Restrictions on the manufacture: Not applicable

Placing on the market and use of certain dangerous substances / mixtures.

Other EU regulations

Europe inventory: All components are listed or exempt.

Blacklist Chemicals: Not listed.

Priority List Chemicals: Not listed. Integrated pollution prevention: Not listed.

and control list (IPPC)- Air

Integrated pollution prevention: Not listed.

and control list (IPPC)- Water

International regulations

Chemical Weapons: Not listed.

Convention List Schedule I Chemicals

Chemical Weapons: Not listed.

Convention List Schedule II Chemicals

Chemical Weapons: Not listed.

Convention List Schedule III Chemicals

15.2. Chemical Safety assessment

Not applicable

15.3. Registration status

Exempt

SECTION 16: Other information

Risk Phrases in Full

Not classified

Hazard Statements in Full

Not classified

List of Wastes" Acronym & Abbreviation Key:

CLP Classification, Labelling & Packaging Regulation

EC European Commission

EU European Union

US United States

CAS Chemical Abstract Service

EINECS European Inventory of Existing Chemical Substances

REACH Registration, Evaluation, Authorization of Chemicals Regulation

GHS Globally Harmonized System of Classification and Labelling of Chemicals

LTEL Long term exposure limit

STEL Short term exposure limit

OEL Occupational exposure limit

ppm Parts per million

mg/m3 Milligrams per cubic meter

TLV Threshold Limit Value

ACGIH American Conference of Governmental Industrial Hygienists

OSHA Occupational Safety & Health Administration

PEL Permissible Exposure Limits

VOC Volatile organic compounds

g/I Grams per litter

mg/kg Milligrams per kilogram

N/A Not applicable

LD50 Lethal dose at 50%

LC50 Lethal concentration at 50%

EC50 Half maximal effective concentration

IC50 Half maximal inhibitory concentration

PBT Persistent bioaccumulative toxic chemical

vPvB Very persistent and very bioaccumulative

EEC European Economic Community

ADR International Transport of Dangerous Goods by Road

RID International Transport of Dangerous Goods by Rail

UN United Nations

IMDG International Maritime Dangerous Goods Code

IATA International Air Transport Association

MARPOL International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978

IBC International Bulk Container

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