Magma SkidGrip L246 Kit.
[Part.1 – Resin | Part.2 – Catalyst | Part.3 – Aggregate]

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	Magma SkidGrip L246 Kit - Resin
Product Inclusion	Part.1 of this document covers Magma SkidGrip L246 Resin only

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

Identified Uses	MMA High friction surfacing system (Plus repair)
Uses advised against	

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

Regulation (EC) No 1272/2008	Skin corrosion/irritation; Category 2 - (H315) Skin sensitization; Category 1 - (H317) Specific target organ toxicity (single exposure); Category 3 - (H335) Specific target organ toxicity - repeated exposure; Category 2 - (H373) Flammable liquids; Category 2 - (H225)

2.2. Label Elements

Hazard pictogram(s)

Signal word Danger

Hazard statement(s)	H315 - Causes skin irritation H317 - May cause an allergic skin reaction H335 - May cause respiratory irritation H373 - May cause damage to organs through prolonged or repeated exposure H225 - Highly flammable liquid and vapour EUH208 - Contains 2-HYDROXYETHYL METHACRYLATE May produce an allergic reaction
Precautionary statement(s) EU (§28,1272/2008)	P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking P280 - Wear protective gloves/protective clothing/eye protection/face protection P273 - Avoid release to the environment P243 - Take precautionary measures against static discharge P271 - Use only outdoors or in a well-ventilated area P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
Contains	METHYL METHACRYLATE, 2-ETHYLHEXYL ACRYLATE, TRIETHYLENGLYCOL DIMETHACRYLATE, Respirable Crystalline Silica

2.3. Other hazards

Other hazards No information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

This product is a mixture. Health hazard information is based on its components.

3.2. Mixtures

Chemical Name	CAS Number	EC Number	REACH Registration	GHS Classification	Weight Percent
CRYSTALLINE SILICA (QUARTZ)/SILICA SAND	14808-60-7	238-878-4	no data available	no data available	25 - 50
METHYL METHACRYLATE	80-62-6	201-297-1	01-2119452498-28-XXXX	STOT SE 3 (H335) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Flam Liq. 2 (H225)	10 - 25
2-ETHYLHEXYL ACRYLATE	103-11-7	203-080-7	01-2119453158-37-XXXX	Skin Irrit. 2 (H315) Skin Sens. 1 (H317) STOT SE 3 (H335) Aquatic Chronic 3 (H412)	2.5 - 10
Respirable Crystalline Silica,	14808-60-7	238-878-4	no data available	STOT RE 1 (H372)	2.5 - 10
TRIETHYLENGLYCOL DIMETHACRYLATE	109-16-0	203-652-6	01-2119969287-21-XXXX	Skin Sens. 1 (H317)	1 - 2.5
2-HYDROXYETHYL METHACRYLATE	868-77-9	212-782-2	01-2119490169-29-XX XX	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317)	< 1

4-Methoxyphenol	150-76-5	205-769-8	no data available	Acute Tox. 4 (H302) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 3 (H412)	< 0.1

The Full Text for all H-Phrases mentioned in this Section are displayed in Section 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 advice Move out of dangerous area. Take off all contaminated clothing immediately.

Inhalation Move to fresh air. Keep respiratory tract clear. If unconscious place in recovery position and seek medical advice. If not breathing, give artificial respiration. Call a physician if irritation develops or persists.

Ingestion Gently wipe or rinse the inside of the mouth with water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention immediately.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician if irritation develops or persists.

Eye contact Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.

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

Symptoms No information available.

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

Notes to physician Treat symptomatically.

SECTION 5: Firefighting measures

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

5.1. Extinguishing media

Suitable extinguishing media Dry powder, Foam, Carbon dioxide (CO 2), Water mist.

Extinguishing media which shall not be used for safety reasons High volume water jet.

5.2. Special hazards arising from the substance or mixture

Special hazards Hazardous decomposition products formed under fire conditions. Mixture reacts slowly with water resulting in evolution of CO2. Evolution of CO2 in closed containers causes overpressure and produces a risk of bursting.

5.3. Advice for firefighters

Advice for firefighters In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Keep containers and surroundings cool with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes and clothing.

Advice for emergency responders For personal protection see Section 8.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not allow material to contaminate ground water system. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Methods for cleaning up Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment.

6.4. Reference to other sections

Reference to other sections See Section 8 for more information.

SECTION 7: Handling and storage

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

7.1. Precautions on safe handling

Advice on safe handling Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Provide exhaust ventilation close to floor level. Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. Open drum carefully as content may be under pressure. Use only in well-ventilated areas. Vapours may form explosive mixtures with air. Keep product and empty container away from heat and sources of ignition. Take measures to prevent the build up of electrostatic charge. Do not use sparking tools. Use only explosion-proof equipment. Have fire extinguishers ready before opening the drum.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs. Keep working clothes separately.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Store in original container. Never fill containers more than 80 % because aerial oxygen is necessary for stabilising. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Keep in an area equipped with solvent resistant flooring. Do not store together with oxidizing and self-igniting products.

7.3. Specific end use(s)

Specific end use(s) No information available.

Exposure scenario No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limit Values

Chemical Name	European Union	Austria	Belgium	Denmark	Finland	France
CRYSTALLINE SILICA (QUARTZ) / SILICA SAND 14808-60-7		TWA: 0.15 mg/m³	TWA: 0.1 mg/m³	TWA: 0.3 mg/m³ TWA: 0.1 mg/m³	TWA: 0.05 mg/m³	TWA: 0.1 mg/m³
METHYL METHACRYLATE 80-62-6		STEL 100 ppm STEL 420 mg/m³ TWA: 50 ppm TWA: 210 mg/m³	TWA: 50 ppm TWA: 208 mg/m³ STEL: 100 ppm STEL: 416 mg/m³	TWA: 25 ppm TWA: 102 mg/m³ Skin	TWA: 10 ppm TWA: 42 mg/m³ STEL: 50 ppm STEL: 210 mg/m³	TWA: 50 ppm TWA: 205 mg/m³ STEL: 100 ppm STEL: 410 mg/m³
2-ETHYLHEXYL ACRYLATE 103-11-7		Skin STEL 10 ppm STEL 82 mg/m³ TWA: 10 ppm TWA: 82 mg/m³ Ceiling 10 ppm Ceiling 82 mg/m3				
Respirable Crystalline Silica 14808-60-7		TWA: 0.15 mg/m³	TWA: 0.1 mg/m³	TWA: 0.3 mg/m³ TWA: 0.1 mg/m³	TWA: 0.05 mg/m³	TWA: 0.1 mg/m³
4-Methoxyphenol 150-76-5		STEL 10 mg/m³ TWA: 5 mg/m³	TWA: 5 mg/m³	TWA: 5 mg/m³		TWA: 5 mg/m³

Chemical Name	Germany	Iceland	Ireland	Italy	Luxembourg	The Netherlands
CRYSTALLINE SILICA (QUARTZ) / SILICA SAND 14808-60-7	Skin	TWA: 0.3 mg/m³ total dust TWA: 0.1 mg/m³ respirable dust Ceiling: 0.6mg/m³ total dust Ceiling: 0.2mg/m³ respirable dust	TWA: 0.1 mg/m³ STEL: 0.3 mg/m³	TWA: 0.025 mg/m³		TWA: 0.075 mg/m³
METHYL METHACRYLATE 80-62-6	TWA: 50 ppm TWA: 210 mg/m³	TWA: 50 ppm S* Ceiling: 100 ppm STEL: 100 ppm	TWA: 50 ppm STEL: 100 ppm	STEL: 100 ppm STEL: 410 mg/m³ TWA: 50 ppm TWA: 205 mg/m³	STEL: 100 ppm TWA: 50 ppm	STEL: 410 mg/m³ TWA: 205 mg/m³
2-ETHYLHEXYL ACRYLATE 103-11-7	TWA: 5 ppm TWA: 38 mg/m³					
Respirable Crystalline Silica 14808-60-7	Skin	TWA: 0.3 mg/m³ total dust TWA: 0.1 mg/m³ respirable dust Ceiling: 0.6mg/m³ total dust Ceiling: 0.2mg/m³ respirable dust	TWA: 0.1 mg/m³ STEL: 0.3 mg/m³	TWA: 0.025 mg/m³		TWA: 0.075 mg/m³
4-Methoxyphenol 150-76-5		TWA: 5 mg/m³ Ceiling: 10 mg/m³	TWA: 5 mg/m³ STEL: 15 mg/m³	TWA: 5 mg/m³		

Chemical Name	Norway	Portugal	Spain	Sweden	Switzerland	The United Kingdom
CRYSTALLINE SILICA (QUARTZ) / SILICA SAND 14808-60-7	TWA: 0.3 mg/m³ TWA: 0.1 mg/m³ STEL: 0.9 mg/m³ STEL: 0.3 mg/m³	TWA: 0.025 mg/m³	TWA: 0.1 mg/m³	LLV: 0.1 mg/m³	TWA: 0.15 mg/m³	STEL: 0.3 mg/m³ TWA: 0.1 mg/m³
METHYL METHACRYLATE 80-62-6	TWA: 25 ppm TWA: 100 mg/m³ Skin STEL: 100 ppm STEL: 400 mg/m³	STEL: 100 ppm TWA: 50 ppm	STEL: 100 ppm TWA: 50 ppm	LLV: 50 ppm LLV: 200 mg/m³ S* STV: 150 ppm STV: 600 mg/m³	STEL: 100 ppm STEL: 420 mg/m³ TWA: 50 ppm TWA: 210 mg/m³	STEL: 100 ppm STEL: 416 mg/m³ TWA: 50 ppm TWA: 208 mg/m³
2-ETHYLHEXYL ACRYLATE 103-11-7					STEL: 5 ppm STEL: 38 mg/m³ TWA: 5 ppm TWA: 38 mg/m³	
Respirable Crystalline Silica 14808-60-7	TWA: 0.3 mg/m³ TWA: 0.1 mg/m³ STEL: 0.9 mg/m³ STEL: 0.3 mg/m³	TWA:0.025mg/m³	TWA: 0.1 mg/m³	LLV: 0.1 mg/m³	TWA: 0.15 mg/m³	STEL: 0.3 mg/m³ TWA: 0.1 mg/m³
2-HYDROXYETHYL METHACRYLATE 868-77-9	TWA: 2 ppm TWA: 11 mg/m³ STEL: 4 ppm STEL: 16.5 mg/m³					
4-Methoxyphenol 150-76-5	TWA: 5 mg/m³ STEL: 10 mg/m³	TWA: 5 mg/m³	TWA: 5 mg/m³			

TWA: time weighted average
STEL: Short term exposure limit
LLV: Exposure Limit Values
STV: Short Term Value

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering measures Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection Tightly fitting safety goggles. Eye wash bottle with pure water.

Hand protection Solvent-resistant gloves. Suitable material: butyl-rubber. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Follow the skin protection plan.

Skin and body protection Follow the skin protection plan. Flame retardant antistatic protective clothing. Remove and wash contaminated clothing before re-use.

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs. Keep working clothes separately.

Environmental exposure controls	Prevent product from entering drains. Do not allow material to contaminate ground water system.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical state	Viscous Liquid
Appearance	No information available
Colour	Light Brown
Odour	Acrylic-like
Odour threshold	0.05 ppm

Property	**Values**	**Remarks**
pH		No information available
Melting/freezing point	-48^{o}C (MMA) / -54^{o}F	
Boiling point/boiling range	101^{o}C (MMA) / 214^{o}F	
Flash point	12^{o}C (MMA) / 54^{o}F	
Evaporation rate		No information available
Flammability (solid, gas)		No information available
Flammability limits in air		
Upper flammability limit		No information available
Lower flammability limit		No information available
Explosion limit	12.5 Vol.% (MMA)	
Lower explosion limit	2.1 Vol.% (MMA)	
Vapour pressure	38.7 mbar (MMA)	(Air = 1.0)
Vapour density		No information available
Specific Gravity		No information available
Water solubility	Insoluble	
Solubility in other solvents		No information available
Partition coefficient	1.38 log POW (MMA)	
Autoignition temperature		No information available
Decomposition temperature		No information available
Viscosity, kinematic		
Viscosity, dynamic		No information available
Explosive properties		No information available
Oxidising Properties		No information available

9.2. Other information

Volatile organic compounds (VOC) content Density	1.4 – 1.5 kg/l (23^{o}C)	No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Polymerisation occurs when exposed to white light, ultraviolet light or heat. Polymerisation is a highly exothermic reaction and may generate sufficient heat to cause thermal decomposition and/or rupture containers.

10.4. Conditions to avoid

Heat, flames and sparks. Exposure to sunlight.

10.5. Incompatible materials

Avoid radical forming starting agents, peroxides and reactive metals, Amines, Heavy metal compounds, Oxidizing agents, Reducing agents

10.6. Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Product information

Inhalation	Irritating to respiratory system. Irritating to mucous membranes.
Ingestion	There are no data available for this product.
Skin contact	Irritating to skin. May cause sensitisation by skin contact.
Eye contact	There are no data available for this product.

The following values are calculated based on chapter 3.1 of the GHS document mg/kg mg/l

Unknown Acute Toxicity

1.32273 % of the mixture consists of ingredient(s) of unknown toxicity
1.022 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
1.02273 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
1.32273 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
1.32273 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour)
1.32273 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
CRYSTALLINE SILICA (QUARTZ)/SILICA SAND	500 mg/kg (Rat)		
METHYL METHACRYLATE	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	29.8 mg/l (Rat)
2-ETHYLHEXYL ACRYLATE	4435 mg/kg (Rat)	= 7522 mg/kg (Rabbit)	
	500 mg/kg (Rat)		

Skin corrosion/irritation	Irritating to skin.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitisation	May cause sensitisation by skin contact.
Germ Cell Mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
Specific target organ toxicity - single exposure	No information available.
Specific target organ toxicity - repeated exposure	No information available.

Target Organs	Eyes. Respiratory system. Skin.
Aspiration hazard	No information available.

SECTION 12: Ecological information

12.1. Toxicity

< 1 % of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Ecotoxicity effects

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
METHYL METHACRYLATE	EC50: 96 h Pseudokirchneriella subcapitata 170 mg/L	LC50: 96 h Pimephales promelas 243 - 275 mg/L flow-through LC50: 96 h Pimephales promelas 125.5 - 190.7 mg/L static LC50: 96 h Lepomis macrochirus 170 - 206 mg/L flow-through LC50: 96 h Lepomis macrochirus 153.9 - 341.8 mg/L static LC50: 96 h Oncorhynchus mykiss 79 mg/L flowthrough LC50: 96 h Oncorhynchus mykiss 79 mg/L static LC50: 96 h Poecilia reticulata 326.4 - 426.9 mg/L static	EC50: 48 h Daphnia magna 69 mg/L
2-ETHYLHEXYL ACRYLATE	EC50: 72 h Desmodesmus subspicatus 44 mg/L EC50: 96 h Desmodesmus subspicatus 47 mg/L		EC50: 48 h Daphnia magna 17.45 mg/L
2-HYDROXYETHYL METHACRYLATE		LC50: 96 h Pimephales promelas 213 - 242 mg/L flow-through LC50: 96 h Pimephales promelas 227 mg/L	
4-Methoxyphenol		LC50: 96 h Pimephales promelas 84.3 mg/L flow-through LC50: 96 h Oncorhynchus mykiss 28.5 mg/L flow-through	

12.2. Persistence and degradability

Biodegradable

12.3. Bioaccumulative potential

No data are available on the product itself.

Chemical Name	log Pow
METHYL METHACRYLATE	0.7
2-ETHYLHEXYL ACRYLATE	4.64
2-HYDROXYETHYL METHACRYLATE	0.47
4-Methoxyphenol	1.34

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available.

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

Waste from residues / unused products	Dispose of as hazardous waste in compliance with local and national regulations. European Waste Catalogue. 080111 - waste paint and varnish containing organic solvents or other dangerous substances.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not burn, or use a cutting torch on, the empty drum. Waste Code. 150110 packaging containing residues of or contaminated by dangerous substances.
Other information	European Waste Catalogue.

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 (ADR 2013 - IMDG 2012 - ICAO/IATA 2014).

14.1. UN number

ADR	1866
IMDG	1866
IATA	1866

14.2. UN proper shipping name

ADR	UN 1866 - Resin solution
IMDG	UN 1866 - Resin solution
IATA	UN 1866 - Resin solution

14.3. Transport hazard class(es)

ADR	3
ADR/RID Labels	3
IMDG	3
IATA	3

14.4. Packing group

ADR	II
IMDG	II
IATA	II

14.5. Environmental hazards

ADR	Not applicable
IMDG	
Marine pollutant	No
IATA	Not applicable

14.6. Special precautions for user

ADR	None
Tunnel restriction code	D/E
Hazard identification No	33
IMDG	None
EmS	F-E, S-E
IATA	None

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

IMDG	No information available

SECTION 15: Regulatory information

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

National regulatory information

Germany WGK Classification	WGK = 1 (self-classification)
Germany GIS Code	RMA 10
Denmark - MAL Factor	MAL-kode 4-5

Chemical Name	French RG number	Title
CRYSTALLINE SILICA (QUARTZ) / SILICA SAND 14808-60-7	RG 25	-
METHYL METHACRYLATE 80-62-6	RG 65,RG 82	-
2-ETHYLHEXYL ACRYLATE 103-11-7	RG 65	-
Respirable Crystalline Silica 60-7	RG 25	-
2-HYDROXYETHYL METHACRYLATE 868-77-9	RG 65	-
4-Methoxyphenol 76-5	RG 65	-

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not applicable

International Inventories

TSCA	Complies
EINECS/ELINCS	-
DSL	-
PICCS	-
ENCS	-
IECSC	-

AICS	-
KECL	-
NZIoC	-

Legend
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
NZIoC - New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

Chemical safety assessment No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under Section 3

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H335 - May cause respiratory irritation
H412 - Harmful to aquatic life with long lasting effects
H372 - Causes damage to organs through prolonged or repeated exposure if inhaled
H302 - Harmful if swallowed
H319 - Causes serious eye irritation
H225 - Highly flammable liquid and vapour

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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	Magma SkidGrip L246 Kit - Catalyst
Product Inclusion	Part.2 of this document covers Magma SkidGrip L246 Kit Catalyst only

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

Identified Uses	Chemical Curing Catalyst for MMA Markings / Surfacing Products
Uses advised against	

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

Regulation (EC) No 1272/2008

Serious eye damage/eye irritation; Category 2 - (H319)
Skin sensitization; Category 1 - (H317)
Reproductive Toxicity; Category 1B - (H360D)
Acute aquatic toxicity; Category 1 - (H400)
Chronic aquatic toxicity; Category 1 - (H410)
Organic peroxides; Type D - (H242)

2.2. Label Elements

Hazard pictogram(s)

Signal word Danger

Hazard statement(s)
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
H242 - Heating may cause a fire

Precautionary statement(s) EU (§28,1272/2008)
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P273 - Avoid release to the environment
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 contact lenses, if present and easy to do. Continue rinsing
P220 - Keep away from dirt, rust, chemicals in particular
P234 - Keep only in original container

Contains DICYCLOHEXYL PHTHALATE, DIBENZOYL PEROXIDE

2.3. Other hazards

Other hazards No information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

This product is a mixture. Health hazard information is based on its components.

3.2. Mixtures

Chemical Name	CAS Number	EC Number	REACH Registration	GHS Classification	Weight Percent
DICYCLOHEXYL PHTHALATE	84-61-7	201-545-9	01-2119978223-34-XXXX	Skin Sens. 1 (H317) Repr.1B (H360D) Aquatic Chronic 3 (H412)	25 - 50
DIBENZOYL PEROXIDE	94-36-0	202-327-6	01-2119511472-50-XXXX	Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Org. Perox. B (H241) Aquat. Acute 1 (H400) Aquat. Chron. 1 (H410)	25 - 50

The Full Text for all H-Phrases mentioned in this Section are displayed in Section 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 advice Show this safety data sheet to the doctor in attendance. When symptoms persist or in all cases of doubt seek medical advice.

Inhalation Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.

Ingestion If swallowed, call a poison control center or doctor immediately. If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention immediately if symptoms occur. Wash contaminated clothing before reuse. Thoroughly clean shoes before re-use.

Eye contact Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

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

Eye irritation. May cause sensitisation by skin contact. Possible risk of impaired fertility. Causes respiratory tract irritation.

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

Notes to physician Persons with pre-existing skin, eye, or respiratory disease may be at increased risk from the irritant or allergic properties of this material. Treat symptomatically. Risk of serious damage to the lungs (by aspiration).

SECTION 5: Firefighting measures

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

5.1. Extinguishing media

Suitable extinguishing media Water spray, Dry chemical, Foam, Carbon dioxide (CO2), Sand.

Extinguishing media which shall not be used for safety reasons Halons.

5.2. Special hazards arising from the substance or mixture

Special hazards CAUTION: re-ignition may occur. Sustains combustion. Risk of dust explosion. In the event of fire and/or explosion do not breathe fumes. Hazardous decomposition products formed under fire conditions. Carbon dioxide (CO2). Carbon monoxide. Benzoic acid. Benzene.

5.3. Advice for firefighters

Advice for firefighters In the event of fire, wear self-contained breathing apparatus. Full protective flameproof clothing. Protective gloves. Evacuate personnel to safe areas. Use water spray to cool unopened containers. Extinguish a small fire with powder or carbon dioxide then apply water to prevent re-ignition. After a fire, ventilate thoroughly the area and soak with water, clean the walls and metallic surfaces. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Do not breathe dust. Avoid contact with skin and eyes. Evacuate personnel to safe areas. Avoid dust formation. Ensure adequate ventilation. Remove all sources of ignition. For personal protection see Section 8.
Advice for emergency responders	For personal protection see Section 8.

6.2. Environmental precautions

Environmental precautions	Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Keep contents moist. Confinement must be avoided. After cleaning, flush away traces with water.

6.4. Reference to other sections

Reference to other sections	See Section 8 for more information.

SECTION 7: Handling and storage

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

7.1. Precautions on safe handling

Advice on safe handling	When using, do not eat, drink or smoke. Do not breathe dust. Use only in well-ventilated areas. Keep product and empty container away from heat and sources of ignition. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep away from reducing agents (e.g. amines), acids, alkalis and heavy metal compounds (e.g. accelerators, driers, metal soaps). Confinement must be avoided. Do not allow to dry. Avoid contact with skin and eyes. Wash hands before breaks and immediately after handling the product. Keep working clothes separately. Prevention of fire and explosion. Avoid dust formation. Risk of dust explosion. Use only explosion-proof equipment. It is recommended to use electrical equipment of temperature group T3. However, auto-ignition can never be excluded. Never pierce, drill, grind, cut, saw or weld any empty container. Keep away from combustible material. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Hygiene measures	Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	Store in accordance with the particular national regulations. Keep away from food, drink and animal feeding stuffs. Store in original container. Keep in a dry, cool and well-ventilated place. Keep away from direct sunlight. Store separate from other chemicals. Avoid temperatures above 25 °C. Keep away from heat and sources of ignition.
Storage class	German storage class LGK 5.2

7.3. Specific end use(s)

Specific end use(s) No information available.
Exposure scenario No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limit Values

Chemical Name	European Union	Austria	Belgium	Denmark	Finland	France
DICYCLOHEXYL PHTHALATE 84-61-7		TWA: 5 mg/m^3		TWA: 3 mg/m^3		
DIBENZOYL PEROXIDE 94-36-0		STEL 10mg/m^3 TWA: 5 mg/m^3	TWA: 5 mg/m^3	TWA: 5 mg/m^3	TWA: 5 mg/m^3 STEL 10mg/m^3	TWA: 5 mg/m^3

Chemical Name	Germany	Iceland	Ireland	Italy	Luxembourg	The Netherlands
DICYCLOHEXYL PHTHALATE 84-61-7		TWA: 3 mg/m^3 Ceiling: 6 mg/m^3	TWA: 5 mg/m^3 STEL 15mg/m^3			
DIBENZOYL PEROXIDE 94-36-0	TWA: 5 mg/m^3	TWA: 5 mg/m^3 Ceiling: 10 mg/m^3	TWA: 5 mg/m^3 STEL 15mg/m^3	TWA: 5 mg/m^3		

Chemical Name	Norway	Portugal	Spain	Sweden	Switzerland	The United Kingdom
DICYCLOHEXYL PHTHALATE 84-61-7						STEL 15mg/m^3 TWA: 5 mg/m^3
DIBENZOYL PEROXIDE 94-36-0	TWA: 5 mg/m^3 STEL 10mg/m^3	TWA: 5 mg/m^3	TWA: 5 mg/m^3		STEL 5mg/m^3 TWA: 5 mg/m^3	STEL 15mg/m^3 TWA: 5 mg/m^3

TWA: time weighted average
STEL: Short term exposure limit
LLV: Exposure Limit Values
STV: Short Term Value

Derived No Effect Level (DNEL) No information available.

Oral 1.65 mg/kg bw/day (General population DNEL long term oral systemic) (Dibenzoyl peroxide)
0.25 mg/kg bw/day (General population DNEL long term oral systemic) (Dicyclohexyl phthalate)

Dermal 3.3 mg/kg bw/day (General population DNEL long term dermal systemic) (Dibenzoyl peroxide)
0.25 mg/kg bw/day (General population DNEL long term dermal systemic) (Dicyclohexyl phthalate)

Precautionary Statements Inhalation	2.9 mg/m³ (General population DNEL long term inhalation systemic) (Dibezoyl peroxide) 0.87 mg/m³ (General population DNEL inhalation acute local/systemic) (Dicyclohexyl phthalate) 0.87 mg/m³ (General population DNEL long term inhalation systemic) (Dicyclohexyl phthalate)
Derived No Effect Level (DNEL)	Workers
Dermal	6.6 mg/kg bw/day (Worker DNEL long term dermal systemic) (Dibenzoyl peroxide) 0.5 mg/kg bw/day (Worker DNEL dermal acute systemic) (Dicyclohexyl phthalate) 0.5 mg/kg bw/day (Worker DNEL long term dermal systemic (Dicyclohexyl phthalate)
Precautionary Statements - Inhalation	11.75 mg/m³ (Worker DNEL long term inhalation systemic) (Dibenzoyl peroxide) 35.2 mg/m³ (Worker DNEL inhalation acute systemic (Dicyclohexyl phthalate) 35.2 mg/m³ (Worker DNEL long term inhalation systemic (Dicyclohexyl phthalate)
Predicted No Effect Concentration (PNEC)	No information available.
Fresh Water	0.000602 mg/l (Dibenzoyl peroxide) 0.00362 mg/l (Dicyclohexyl phthalate)
Sea Water	0.0000602 mg/l (Dibenzoyl peroxide) 0.000362 mg/l (Dicyclohexyl phthalate)
Fresh water sediment	0.338 mg/kg (Dibenzoyl peroxide) 1.06 mg/kg (Dicyclohexyl phthalate)
Sea sediment	0.106 mg/kg (Dicyclohexyl phthalate)
Soil	0.0758 mg/kg (Dibenzoyl peroxide) 0.21 mg/kg (Dicyclohexyl phthalate)
Impact on Sewage Treatment	0.35 mg/l (Dibenzoyl peroxide) 10 mg/l (dicyclohexyl phthalate)

8.2. Exposure controls

Engineering measures	Ensure adequate ventilation. Use only in an area equipped with explosion proof exhaust ventilation.
Personal protective equipment	
Eye/face protection	Tightly fitting safety goggles.
Hand protection	Rubber gloves. Butyl rubber. Neoprene gloves.
Skin and body protection	Wear protective gloves/clothing.
Respiratory protection	Ensure adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment. Half mask with a particle filter P2 (EN 143).
Hygiene measures	Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use. Wash hands before breaks and immediately after handling the product.

Environmental exposure controls	Prevent product from entering drains.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical state	Solid
Appearance	Powder
Colour	White
Odour	Mild
Odour threshold	No information available

Property	Values	Remarks
pH		No information available
Melting/freezing point		Decomposition
Boiling point/boiling range	Not applicable	No information available
Flash point	Not applicable	No information available
Evaporation rate	Not applicable	No information available
Flammability (solid, gas)		No information available
Flammability limits in air		
upper flammability limit		No information available
lower flammability limit		No information available
Vapour pressure		
Vapour density		
Specific Gravity	1.23 (20 °C)	
Water solubility	Insoluble in water	
Solubility in other solvents		No information available
Partition coefficient		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Viscosity, kinematic		
Viscosity, dynamic		No information available
Explosive properties		No information available
Oxidising Properties		

9.2. Other information No information available

Volatile organic compounds (VOC) content	No information available
Density	1230 kg/m³ (20 °C)
Bulk Density	640 kg/m³ (20 °C)
Active oxygen content	3.3 %
Peroxide content	50 %
SADT	55 °C

SECTION 10: Stability and reactivity

10.1. Reactivity

Hazardous polymerisation does not occur. Decomposes on heating.

10.2. Chemical stability

SADT – (Self accelerating decomposition temperature) is the lowest temperature at which self-accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the following temperature: 55°C. Contact with incompatible substances can cause decomposition at or below the SADT 55°C Stable under normal conditions

10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

10.4. Conditions to avoid

Heat, flames and sparks. Confinement must be avoided. Avoid temperatures above 25 °C. Avoid shock and friction. Do not allow to dry. Explosive when dry.

10.5. Incompatible materials

Rust, Iron, Copper, Acids and bases, Heavy metal compounds, reducing agents. Reacts violently in contact with acids, amines, driers, polymerisation accelerators and easily oxidized materials

10.6. Hazardous decomposition products

Benzoic acid. Benzene.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Product information

Inhalation	Thermal decomposition can lead to release of irritating gases and vapours. Irritating to respiratory system.
Ingestion	Ingestion may cause irritation to mucous membranes.
Skin contact	Slight irritation. May cause an allergic skin reaction. May cause skin irritation.
Eye contact	Serious eye damage/eye irritation.

The following values are calculated based on chapter 3.1 of the GHS document mg/l

Unknown Acute Toxicity

< 1 % of the mixture consists of ingredient(s) of unknown toxicity
< 1 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
< 1 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
< 1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
< 1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour)
< 1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
DIBENZOYL PEROXIDE	> 5000 mg/kg (rat)		> 24.3 mg/l (Rat,dust)

Skin corrosion/irritation	May cause irritation.
Eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitisation	May cause sensitisation by skin contact.
Germ Cell Mutagenicity	None known.
Carcinogenicity	No information available.
Reproductive toxicity	Suspected of damaging fertility or the unborn child.
Specific target organ toxicity - single exposure	No information available.
Specific target organ toxicity - repeated exposure	No information available.
Target Organs	Eyes. Respiratory system. Skin.
Aspiration hazard	No information available.

SECTION 12: Ecological information

12.1. Toxicity

< 1 % of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Ecotoxicity effects

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

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
DIBENZOYL PEROXIDE	EC50 (72h) : 0.06 mg/l (Dibenzoyl peroxide 78 %)	LC50 (96h) : 0.06 mg/l (Dibenzoyl peroxide 78 %)	EC50 (48h) : 0.11 mg/l (Dibenzoyl peroxide 78 %) - Daphnia magna

12.2. Persistence and degradability

Readily biodegradable.

12.3. Bioaccumulative potential

Bioconcentration factor (BCF). = 85. Estimated.

12.4. Mobility in soil

Mobility in soil No information available.

Mobility log Pow = 4.82 (25 °C)
log Koc = 3.46 (estimated).

12.5. Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Other adverse effects

Discharge into the environment must be avoided.

Chemical Name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
DICYCLOHEXYL PHTHALATE	Group III Chemical		

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused products	Waste from residues / unused products.
Contaminated packaging	Dispose of in accordance with local regulations. Do not burn, or use a cutting torch on, the empty drum.
Other information	European Waste Catalogue. 160903 - peroxides, e.g. hydrogen peroxide. 160903 [S].

SECTION 14: Transport information

14.1. UN number

ADR	3106
IMDG	3106
IATA	3106

14.2. UN proper shipping name

ADR	Organic Peroxide Type D, solid (Dibenzoylperoxide)
IMDG	Organic Peroxide Type D, solid (Dibenzoylperoxide)
IATA	Organic Peroxide Type D, solid (Dibenzoylperoxide)

14.3. Transport hazard class(es)

ADR	5.2
ADR/RID Labels	5.2
IMDG	5.2
IATA	5.2

14.4. Packing group

ADR	Not regulated
IMDG	Not regulated
IATA	Not regulated

14.5. Environmental hazards

ADR	Not applicable
IMDG	
Marine pollutant	Yes
IATA	Not applicable

14.6. Special precautions for user

ADR	None
Classification Code	P1
Tunnel restriction code	D
Hazard identification No	539
IMDG	None
EmS	F-J, S-R
IATA	None

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

IMDG	No information available

SECTION 15: Regulatory information

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

National regulatory information

Germany WGK Classification	WGK = 1 (self-classification)
Denmark - MAL Factor	Not applicable
European Union	Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.
Authorisations and/or restrictions on use:	This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), AnnexXVII)
Persistent Organic Pollutants	Not applicable.

International Inventories

TSCA	Complies
EINECS/ELINCS	Complies
DSL	Complies
PICCS	Complies
ENCS	Complies
IECSC	Complies
AICS	Complies
KECL	Complies
NZIoC	Complies

Legend

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
NZIoC - New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

No information available.

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under Section 3	H317 - May cause an allergic skin reaction H360D – May damage the unborn child H412 - Harmful to aquatic life with long lasting effects H319 - Causes serious eye irritation H241 - Heating may cause a fire or explosion H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects.

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) 830/2015

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

1.1. Product identifier

Product Name	Pigmented Granite Aggregate
Product Inclusion	Part.3 of this document covers Magma SkidGrip L246 Kit Pigmented Granite Aggregate only.
Container Size	Various

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 against	No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier	Meon Ltd. Railside Northarbour Spur Portsmouth PO6 3TU +44 (0) 23 9220 0606 mail@meonuk.com

1.4. Emergency Telephone Number

Emergency telephone	+44 (0) 808 118 1922

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified as dangerous for supply/use.

2.2 Label elements

Product Name	Pigmented Crushed Granite
Signal Word(s)	None
Hazard Statement(s)	None 100 percent of the mixture consists of ingredient(s) of unknown acute toxicity.
Precautionary Statements(s)	None.

2.3 Other hazards
None known.
2.4 Additional information
None.

SECTION 3: Composition/information on ingredients

SUBSTANCE [ ] MIXTURE [X]

Dangerous component(s)

Ingredient(s)	CAS number	EC No. / REACH Registration No.	%	Hazard Statement(s)	Classification according to Regulation EC 1278/2008 (CL
Granite	**None**	**None**	**> 99%**	**Not Classified**	**Not Classified**
Coating			**< 1%**	**Not Classified**	**Not Classified**
Impurities:					
Respirable crystalli silica (quartz)			**< 1%**	**Not Classified**	**Not Classified**

SECTION 4: First aid measures

Show this safety data sheet to the doctor in attendance.

4.1. Description of first aid measures

General notes

In case of inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Seek medical attention if you feel unwell.

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

In case of eye contact: Flush with plenty of water. Seek medical attention if irritation persists.

In case of ingestion: Wash immediately with plenty of soap and water.

Self-protection of the first aider:

4.2. Most important symptoms and effects, both acute and delayed
No acute and delayed symptoms and effects are observed.

4.3. Indication of any immediate medical attention and special treatment needed
No special measure.

SECTION 5: Firefighting measures

5.1. Extinguishing media
No specific extinguishing media is needed.
Unsuitable extinguishing media. None.

5.2. Special hazards arising from the substance or mixture
In combustion may emit toxic gases/vapours

5.3. Advice for firefighters
As appropriate for surrounding fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment, and emergency procedures
Provide adequate ventilation. Wear suitable gloves if prolonged skin contact is likely.

6.2. Environmental precautions
Do not release large quantities into the surface water or into drains.

6.3. Methods and material for containment and cleaning up
Sweep spilled substances into containers if appropriate moisten first to prevent dusting.

6.4. Reference to other sections
See sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions on safe handling
Avoid airborne dust generation. Provide appropriate exhaust ventilation at places where airborne dust is generated. In case of insufficient ventilation, wear suitable protective equipment. Handle packaged products carefully to prevent accidental bursting. If you require advice on safe handling techniques, please contact your supplier or check the Good Practice Guide referred to in Section 16.

Do not eat, drink or smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities

Storage temperature	Ambient.
Storage life	Stable under normal conditions.
Incompatible materials	None known.

7.3. Specific end uses
Not known

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Occupational exposure limits

Substance	CAS No				
Silca, respirable crystalline	14808-60-7	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³	STEL (ppm)	STEL (mg/ m³)

Region	Source
Europe	EU Occupational Exposure Limits

8.2. Exposure controls

Individual protection measures, such as personal protective equipment (PPE):

Eyes

Wear eye protection with side protection (EN166).

Skin

In case of prolonged exposure to airborne dust concentrations, wear respiratory protective equipment that complies with the requirements of European or national legislation.

Hand Protection	Not normally required.

Respiratory	None known
8.2.3. Environemntal exposure controls	Do not release large quantities into the surface water or into drains.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Solid
Colour	Various
Odour	Odourless
Odour threshold	Not known.
pH	Not known.
Melting point/freezing point	Not known.
Initial boiling point and boiling range	Not applicable.
Flash Point	Not applicable.
Evaporation rate	Not known.
Flammability (solid, gas)	Not known.
Upper/lower flammability or explosive limits	Not known.
Vapour pressure	Not known.
Vapour density	Not known.
Density (g/ml)	Not known.
Relative density	2.50-2.70 g/cm3
Upper/lower flammability or explosive limits	Not known.
Vapour pressure	Not known.
Vapour density	Not known.
Density (g/ml)	Not known.
Relative density	2.50-2.70 g/cm3
Solubility(ies)	Solubility (Water) : None Solubility (Other) : Not known.
Partition coefficient: n-octanol/water	Not known.
Auto-ignition temperature	Not known.
Decomposition Temperature (°C)	Not known.
Viscosity	Not known.
Explosive properties	Not known.
Oxidising properties	Not known.

9.2. Other information

No other information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Not reactive.

10.2. Chemical stability

Chemically stable.

10.3. Possibility of hazardous reactions
No hazardous reactions.
10.4. Conditions to avoid
None anticipated.
10.5. Incompatible materials
Not known.
10.6. Hazardous decomposition products
No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - Ingestion	Low acute toxicity.
Acute toxicity - Skin Contact	Low acute toxicity.
Acute toxicity - Inhalation	Low acute toxicity.
Skin corrosion/irritation	Non-irritant.
Serious eye damage/irritation	Non-irritant.
Skin sensitization data	Not classified.
Respiratory sensitization data	Not classified.
Germ cell mutagenicity	There is no evidence of mutagenic potential.
Carcinogenicity	No evidence of carcinogenicity.
Reproductive toxicity	Not classified.
Lactation	Not classified.
STOT - single exposure	Not classified.
STOT - repeated exposure	Not classified.
Aspiration hazard	Not classified.
Toxicity - Aquatic invertebrates	Low toxicity to invertebrates.
Toxicity - Fish	Low toxicity to fish.
Toxicity - Algae	Low toxicity to algae.
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.

SECTION 12: Ecological information

12.1. Toxicity
Not known.
12.2. Persistence and degradability
Not known.
12.3. Bioaccumulative potential
Not known.
12.4. Mobility in soil
Not known.
12.5. Results of PBT and vPvB assessment
Not known.
12.6. Other adverse effects
Not known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
No special precautions are required for this product.
13.2 Additional Information
No special precautions are required for this product.

SECTION 14: Transport information

Not classified as hazardous for transport.

SECTION 15: Regulatory information

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

Exempted from REACH registration in accordance with Annex V.7.

15.2 Chemical safety assessment

A REACH chemical safety assessment has not been carried out.

SECTION 16: Other information

Acronyms CAS : Chemical Abstracts Service
CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL : Derived No Effect Level
EC : European Community
EINECS : European Inventory of Existing Commercial Chemical Substances
LTEL : Long Term Exposure Limit
PBT : Persistent, Bioaccumulative and Toxic
PNEC : Predicted No Effect Concentration
REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals
STEL : Short Term Exposure Limit
STOT : Specific Target Organ Toxicity
vPvB : very Persistent and very Bioaccumulative