

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 Patchbound Kit

Product Inclusion Part.1 of this document covers Magma PatchBound Kit Bound Resin Part A

only.

Container Size Variable

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

Identified Uses PC 19: Intermediate.

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 +44 (0) 23 9220 0707 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 under CLP

The product has no classification under CLP.

2.2. Label Elements

Label elements under CLP:

H-statement(s) None

P-statement(s) P260 Do not breathe fumes.

P302+350 IF ON SKIN: Gently wash with plenty of soap and water. P501 Dispose of contents/container to national regulations.

Supplemental hazard information

2.3. Other hazards

Results of PBT and vPvB assessment:

PBT and vPvB not applicable.

SECTION 3: Composition/information on ingredients

SUBSTANCE [] MIXTURE [X]

Chemical identity
A9298 PART A
Contains
Polyester polyol

Dangerous component(s)

No data available.

SECTION 4: First aid measures

Show this safety data sheet to the doctor in attendance.

4.1. Description of first aid measures

In case of inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so.

In case of skin contact: Remove skin with paper or towel. Wash affected area thoroughly with soap and water.

Seek medical advice if symptoms persist.

In case of eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

In case of ingestion: Wash out mouth with water. Consult a doctor.

Self-protection of the first aider: None.

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

In case of inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

In case of skin contact: There may be mild irritation at the site of contact.

In case of eye contact: There may be irritation and redness.
In case of ingestion: There may be irritation of the throat.

Self-protection of the first aider: None.

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

Notes to Physician: None.

Specific treatment: None.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Suitable extinguishing media for surrounding fire. Use water spray to cool

containers.

Extinguishing media which must

not be used for safety reasons

No information.

5.2. Special hazards arising from the substance or mixture

Exposure hazards In combustion emits toxic fumes.

5.3. Advice for firefighters

Protective actions during Wear self-contained breathing apparatus. Wear protective clothing to

firefighting. prevent contact with skin and eyes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Refer to section 8 of SDS for personal protection details. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Refer to section 8 of SDS.

SECTION 7: Handling and storage

7.1. Precautions on safe handling

Ensure there is sufficient ventilation of the area.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Store in cool, well ventilated area. Keep container tightly closed.

Suitable packaging

Must only be kept in original packaging.

7.3. Specific end uses

No specific advice for end use available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits

No data available

DNEL/PNEC

No data available

8.2. Exposure controls

Engineering measures Ensure there is sufficient ventilation of the area.

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment.

Eye/face protection Safety glasses. Ensure eye bath is to hand.

Hand protection Avoid skin contact. For repeated exposure use Viton or 4H chemical gloves.

For low exposure use nitrile gloves. The user has legal duty to carry out a

COSHH risk assessment to determine the correct glove.

Other skin and body protection Protective clothing.

Environmental exposure controls No special requirement.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

State:LiquidColour:Gold-brownEvaporation rate:Slow

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Insoluble Viscosity: Viscous

9.2. Other information

None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended transport and storage conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

Magma PatchBound Kit

[Part.1 – Part A Resin | Part.2 – Part B Resin | Part.3 - Aggregate]

10.4. Conditions to avoid

Heat.

10.5. Incompatible materials

Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

In combustion emit toxic fumes.

SECTION 11: Toxicological information

Toxicity values

No data available

11.1. Information on toxicological effects

Skin contact There may be mild irritation at the site of contact.

Eye contactIngestion
There may be irritation and redness.
There may be irritation of the throat.

Inhalation There may be irritation of the throat with a feeling of tightness in the

chest.

Other information Not applicable.

Additional information

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

SECTION 12: Ecological information

12.1. Toxicity

No information.

12.2. Persistence and degradability

Biodegradable in part only.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

The product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

No information.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations

Wet waste: Arrange for disposal by a licensed waste disposal company.

Disposal of packaging

Arrange for disposal by a licensed waste disposal company.

NB

The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14: Transport information

Transport class

This product does not require a classification for transport.

SECTION 15: Regulatory information

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

Specific regulations

This product is classified as a mixture. CLP classification for information only.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for substance or the mixture by the supplier.

SECTION 16: Other information

Other information

This safety data sheet is prepared in accordance with Comission Regulation (EU) No 453/2010

* indicates text in the SDS which has changed since the last revision.

Legal disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

List of Wastes" Acronym & Abbreviation Key:

BMGV Biological Monitoring Guidance Values are given in Table 2 of EH40/2005 Workplace exposure limits.

Sk Can be absorbed through the skin. Dermal absorption may lead to systemic toxicity.

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 Labeling 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 liter

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

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



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 PatchBound Kit

Product Inclusion Part.2 of this document covers Magma PatchBound Kit Bound Resin

Part B UV Stable (Aliphatic) only.

Container Size Variable

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

Identified Uses Catalyst.

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 +44 (0) 23 9220 0707 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 under CHIP: Xn: R20; Xi: R37; Sens.: R43 Classification under CLP:

Skin Sens. 1: H317; STOT SE 3: H335; Acute Tox. 4: H332; -: EUH208; -: EUH204

Most important adverse effects:

Harmful by inhalation. Irritating to respiratory system. May cause sensitisation by skin contact.

2.2. Label Elements

Label elements under CLP:

Hazard pictograms



Signal word Warning

H-statement(s) EUH208: Contains hexamethylene-di-isocyanate, aliphatic polyisocyanate. May produce

an allergic reaction.

H317: May cause an allergic skin reaction. H335: May cause respiratory irritation.

EUH204: Contains isocyanates. May produce an allergic reaction.

H332: Harmful if inhaled.

P-statement(s) P260: Do not breathe dust/fumes/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection. P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P302+352: IF ON SKIN: Wash with plenty of soap and water. P332+313: If skin irritation occurs: Get medical advice/attention.

P501: Dispose of contents/container to a hazardous or special waste collection point.

Label elements under CHIP:



Harmful

Risk phrases R20: Harmful by inhalation.

R37: Irritating to respiratory system.

R43: May cause sensitisation by skin contact.

Safety phrases S24: Avoid contact with skin.

S23: Do not breathe vapour.

S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.

Precautionary phrases Contains isocyanates. See information supplied by the manufacturer.

Contains hexamethylene-di-isocyanate. May produce an allergic reaction.

Persons already sensitised to diisocyanates may develop allergic reactions when using

this product.

Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid

contact, including dermal contact, with this product.

This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients

Ingredient		CHIP Classification CLP Classification	Percent
ALIPHATIC POLYISOCYANATE	EINECS: - CAS: 28182-81-2 REACH: 01-2119485796-17-0000	Sens.: R43; Xn: R20; Xi: R37 Acute Tox. 4: H332; Skin Sens. 1: H317; STOT SE 3: H335; STOT SE 3: H336; Acute Tox. 4: H312+332; Acute Tox. 4: H312; Acute Tox. 4: H302	>90%
HEXAMETHYLENE-DI- ISOCYANATE HOMOPOLYMER	EINECS: 212-485-8 CAS: 822-06-0 REACH: 01-2119457571-37-0000	Xn: R20; Xi: R37; Sens.: R42/43 Acute Tox. 4: H302; STOT SE 3: H335; Eye Irrit. 2: H319; Acute Tox. 1: H330; Skin Irrit. 2: H315; Resp. Sens. 1: H334; Skin Sens. 1: H317	<1%

Contains: Mixture of isocyanate

SECTION 4: First aid measures

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

NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

Skin contact: Remove from skin with paper or towel. Wash effected area thoroughly with soap and

water. Seek medical advice if symptoms persist.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist

examination.

Ingestion: Transfer to hospital as soon as possible. Do not induce vomiting.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so.

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

Skin contact: There may be irritation and redness at the site of contact. Onset of

symptoms may be delayed

Eye contact: There may be irritation and redness.

Ingestion: Nausea and stomach pain may occur. There may be vomiting.

Inhalation: Exposure may cause coughing or wheezing. Onset of symptoms may be

delayed.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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

Not applicable.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Carbon dioxide. Alcohol or polymer foam. Dry chemical powder. Water spray.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for firefighters

firefighting.

Special protective equipment for Wear self-contained breathing apparatus. Wear protective clothing to

prevent contact with skin and eyes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Ensure adequate ventilation

6.2. Environmental precautions

Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Absorb into damp earth or sand Mix with sand or vermiculite. Transfer to a closable, labelled salvage container for disposal by an appropriate method. To avoid build-up of pressure due to the evolution of carbon dioxide, do not seal containers until fully reacted.

6.4. Reference to other sections

Refer to section 8 of SDS.

SECTION 7: Handling and storage

7.1. Precautions on safe handling

Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance.

7.2. Conditions for safe storage, including any incompatibilities

Storage

Store in cool, well-ventilated area. Keep container tightly closed.

Packaging

Must only be kept in original packaging.

7.3. Specific and uses

No data available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Workplace	exposure	limits:
-----------	----------	---------

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	0.02 mg/m3	0.07 mg/m3	1	-

Hazardous ingredients:

ALIPHATIC POLYISOCYANATE

Workplace exposure limits:

Das	-:		dust
RES	DIL	me	ausi

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	0.02 mg/m3	0.07 mg/m3	1	-

HEXAMETHYLENE-DI-ISOCYANATE HOMOPOLYMER

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	0.02 mg/m3	0.07 mg/m3	-	-

DNEL / PNEC:

No data available.

8.2. Exposure controls

Engineering measures: Ensure there is exhaust ventilation of the area.

Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment. If

> exposure levels are likely to be exceeded, use a full face mask fitted with an organic AXP3 filter for short term low level exposures. For long term or high level exposures, compressed airline breathing apparatus should be

used.

Hand protection: Avoid skin contact. For repeated exposure use Viton or 4H chemical

> gloves. For low exposure use nitrile gloves. The user has a legal duty to carry out a COSHH risk assessment to determine the correct glove.

Eye protection: Safety goggles. **Skin protection:** Protective clothing.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

State: Liquid.
Colour: Colourless

Odour Characteristic odour

Oxidising: Non-oxidising (by EC criteria)

Viscosity: Non-viscous

Flash point °C: 158
Relative density: 1.17

9.2. Other information

No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended transport or storage conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Moist air.

10.5. Incompatible materials

Water. Alcohols. Amines.

10.6. Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
ORAL	RAT	LD50	>2500	mg/kg
DERMAL	RAT	LD50	>2000	mg/kg
DUST/MIST	RAT	4H LC50	390	mg/l

Hazardous ingredients:

HEXAMETHYLENE-DI-ISOCYANATE HOMOPOLYMER

Route	Species	Test	Value	Units
IVN	MUS	LD50	5600	μg/kg
ORL	MUS	LD50	350	mg/kg
ORL	RAT	LD50	710	μl/kg

11.1.2. Mixture

Effect	Route	Basis
Acute toxicity (harmful)	INH	Hazardous: calculated
Irritation	INH	Hazardous: calculated
Sensitisation	DRM	Hazardous: calculated

Symptoms / routes of exposure:

Skin contact: There may be irritation and redness at the site of contact. Onset of

symptoms may be delayed

Eye contact: There may be irritation and redness

Ingestion: Nausea and stomach pain may occur. There may be vomiting.

Inhalation: Exposure may cause coughing or wheezing. Onset of symptoms may be

delayed.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
ZEBRAFISH (Brachydanio rerio)	96H LC50	>100	mg/l
Daphnia magna	48H EC50	>100	mg/l
Scenedesmus	72H ErC50	>1000	mg/l
Subspicatus			

12.2. Persistence and degradability

Not biodegradable.

12.3. Bioaccumulative potential

No bioaccumulation potential.

12.4. Mobility in soil

Reacts with water to form an insoluble polyurea. Do not discharge in to natural waters without pre-treatment.

12.5. Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Wet waste: Arrange for disposal by a licenced waste disposal company.

Disposal of packaging: Arrange for disposal by a licenced waste disposal company.

NB: The user's attention is drawn to the possible existence of regional or national

regulations regarding disposal.

SECTION 14: Transport information

This product does not require a classification for transport.

SECTION 15: Regulatory information

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

Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

SECTION 16: Othe	r information
------------------	---------------

Other information: This product is a respiratory irritant and potential respiratory sensitiser. In

cases of hypersensitivity to the respiratory tract (eg. asthmatics and those who suffer from chronic bronchitis) it is inadvisable to work with this

product.

Phrases used in s.2 and s.3: EUH204: Contains isocyanates. May produce an allergic reaction.

EUH208: Contains <name of sensitising substance>. May produce an

allergic reaction.

H302: Harmful if swallowed. H312: Harmful in contact with skin.

H312+332: Harmful in contact with skin or if inhaled.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H330: Fatal if inhaled. H332: Harmful if inhaled.

H334: May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness.

R20: Harmful by inhalation.

R37: Irritating to respiratory system.

R42/43: May cause sensitisation by inhalation and skin contact.

R43: May cause sensitisation by skin contact.

Legal disclaimer: The above information is believed to be correct but does not purport to be

all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with

the above product.

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

12 | 17

Revision date: 11 June 2015



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 Magma Patchbound Kit

Product Inclusion Part.3 of this document applies to all the following Natural Aggregates

only

Basalt | Flint | Granite | Quartz | Limestone | Gravel

Container Size NA

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

Identified Uses Not specified.

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 +44 (0) 23 9220 0707 mail@meonuk.com

1.4. Emergency Telephone Number

Emergency telephone +44 (0) 808 118 1922

SECTION 2: Hazards identification

The main health hazard from natural aggregates is airborne dust. Increased levels of dust are generated by mechanical treatment of natural aggregates, or products containing natural aggregates, i.e. cutting and surface treatment of hardened concrete. Inhalation of respirable dust over a prolonged period can be harmful to health. Where respirable dust contains high quantities of free silica in the form of quartz, there is a risk of developing silicosis. The main symptoms of this chronic disease are difficulty in breathing and coughing. Long-term prolonged exposure to high levels of respirable crystalline silica, which can arise from a failure to implement adequate control measures, can also lead to an increased risk of developing lung cancer.

SECTION 3: Composition/information on ingredients

Natural aggregates

Natural aggregates are produced from naturally occurring rock or sand and gravel deposits. These products will contain a combination of various minerals including silica. The silica content of different aggregates will vary depending upon the mineral deposit. The following figures are given as an indication of the level of free silica in different mineral sources, but it must be noted that these figures do vary.

QuartziteGreater than 95%FlintGreater than 90%SandstoneGreater than 70%

GraniteUp to 30%DoleriteUp to 15%BesaltUp to 5%

Limestone Usually less than 5%

SECTION 4: First aid measures

Show this safety data sheet to the doctor in attendance.

4.1. Description of first aid measures

Eye contact: Immediately irrigate with eyewash solution or clean water. If symptoms develop, obtain

medical attention.

Skin contact: Wash with soap and water. If irritation occurs seek medical attention.

Ingestion: If ingestion causes problems, remove from exposure and seek medical attention if

required.

Inhalation: Remove the affected person to fresh air and seek medical attention if required.

Self-protection of the first aider: None.

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

No data available.

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

No data available.

SECTION 5: Firefighting measures

Non flammable

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See 8.2. 6.2. Cleaning up: In the event of spillage, avoid cleaning methods which generate airborne dust. Avoid breathing in dust by standing up-wind, damping down with water and wearing a suitable dust mask if required. If possible, use a vacuum or other dustless cleaning method. Avoid dry sweeping which produces airborne dust. Damp down surfaces, sweep/shovel up waste and dispose of according to statutory restrictions.

6.2. Environmental precautions

The release of aggregate dust into the environment does not constitute a significant environmental hazard. However, where dust passes beyond site boundaries, this may be regarded as statutory nuisance under the Environmental Protection Act 1990.

6.3. Methods and material for containment and cleaning up

None.

6.4. Reference to other sections

None.

SECTION 7: Handling and storage

7.1. Precautions on safe handling

Engineering control measures such as containment, enclosed silos/bins/hoppers, local exhaust ventilation, spray suppression systems, etc. should be used where there is a risk of airborne dust creation. Open conveyor handling systems should be provided with wind boards or other protection to prevent wind-whipping. Manual handling of the product should be minimised through the use of mechanical aids etc, wherever possible. Account should be taken of the Manual Handling Regulations and care should be taken when lifting by hand.

7.2. Conditions for safe storage, including any incompatibilities

Natural aggregates should be handled and stored to minimise the creation of airborne dust.

7.3. Specific end uses

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: The following Workplace Exposure Limits (WEL's) for airborne dust are given in HSE Guidance Note EH40:

8.2. Exposure controls

Magma PatchBound Kit

[Part.1 – Part A Resin | Part.2 – Part B Resin | Part.3 - Aggregate]

Respiratory protection Suitable respiratory protection (HSE approved standard) should be worn

to protect against inhalation of dust.

Hand and skin protection

Overalls and gloves should be used to prevent contamination of skin. Eye protection to BS EN 1664-4 should be used to prevent dust entering Eve protection

the eyes.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Odourless particles of solid material in the form of crushed rock or sand and gravel. Other chemical properties not applicable under ambient conditions.

9.2. Other information

None.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

No data available.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

No data available.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Short term effects:

Eye contact May cause transient irritation to the eyes.

Skin Prolonged or repeated contact with mineral dust may cause the skin to dry

out giving rise to dermatitis.

Ingestion Extremely unlikely.

Inhalation Inhalation of mineral dusts over a prolonged period may give rise to a

number of respiratory illnesses including, chronic bronchitis,

pneumoconiosis and silicosis (if silica present). People who develop silicosis

have an increased risk of developing lung cancer.

SECTION 12: Ecological information

12.1. Toxicity

Not applicable.

12.2. Persistence and degradability

None.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

Mobility:

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

General information

Disposal should be in accordance with current local and national legislation.

SECTION 14: Transport information

Classification is not required for conveyance.

SECTION 15: Regulatory information

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

Chemicals (Hazard Information and Packaging for Supply) Regulations. Classification – None.

15.2 Chemical safety assessment

No information.

SECTION 16: Other information

Legislation and other information

Health & Safety at Work, etc. Act 1974.

Control of Substances Hazardous to Health Regulations (COSHH) 2002.

Control of substances Hazardous to Health (Ammendment) Regulations 2004.

Environmental Protection Act 1990.

HSE Guidance Note EH40 (Workplace Exposure Limits).

Any authorised manual on First Aid by St.John's/St Andrews/Red Cross.

Manual Handling Operations Regulations 1992 (as amended)

Prepared in accordance with UK REACH Competent Authority information Leaflet 13 -

REACH and SDS - May 2008.

Guidance references

Available from HMSO, HSE area offices, or local authority Environmental Health Departments:

Workplace Exposure Limits (EH40)

A step-by-step guide to COSHH Assessment (HS[G]97)

An introduction to Local Exhaust Ventilation (HS[G]37)

Respirable Crystalline Silica (EH59)

Dust, General Principles of Protection (EH44)

Control of Respirable Crystalline Silica in Quarries (HS[G]73)

Respirable Crystalline Silica (EH74/2)

Respirable Crystalline Silica (EH75)

List of Wastes" Acronym & Abbreviation Key:

BMGV Biological Monitoring Guidance Values are given in Table 2 of EH40/2005 Workplace exposure limits.

Sk Can be absorbed through the skin. Dermal absorption may lead to systemic toxicity.

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 Labeling 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 liter

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

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

17 | 17

Revision date: 11 June 2015