



SAFETY DATA SHEET

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 Magma HardMaster W621 - Powder Component
Part.1 of 2 covers HardMaster W621 powder component only.

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

Identified Uses Polymer modified kerb repair mortar.
Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier Meon Ltd.
Railside
Northharbour Spur
Portsmouth
PO6 3TU
+44 (0) 23 9220 0606
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 (EC) No. 1272/2008

Physical hazards Not Classified
Health hazards Eye Dam. 1 - H318; Skin Sens. 1 - H317
Environmental hazards Not Classified

2.2. Label Elements

Hazard pictogram(s)



Signal word Danger
Hazard statement(s) H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.

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Precautionary statement(s)	<p>P102 - Keep out of reach of children.</p> <p>P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P302+P352 - IF ON SKIN: Wash with plenty of water.</p> <p>P333+P313 - If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 - Immediately call a POISON CENTER/ doctor.</p> <p>P501 - Dispose of contents/ container in accordance with national regulations.</p>
Contains	Cement, portland, chemicals
Supplementary precautionary statement(s)	<p>P261 - Avoid breathing dust.</p> <p>P272 - Contaminated work clothing should not be allowed out of the workplace.</p> <p>P362+P364 - Take off contaminated clothing and wash it before reuse.</p>

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1. Substance

3.2. Mixtures

Calcium carbonate	25 - <50%
CAS No. 471-34-1 EC No. 207-439-9 Substance with National workplace exposure limits. Classification Not Classified	
Cement, alumina, chemicals	10 - <25%
CAS No. 65997-16-2 EC No. 266-045-5 Classification Eye Irrit. 2 - H319	
Cement, portland, chemicals	5 - <10%
CAS No. 65997-15-1 EC No. 266-043-4 Classification Skin Irrit. 2 - H315; Eye Dam. 1 - H318; Skin Sens. 1 - H317; STOT SE 3 - H335	
Calcium dihydroxide	0.5 - <1%
CAS No. 1305-62-0 EC No. 215-137-3 <div style="text-align: right; margin-right: 100px;">REACH</div> 01-2119475151-45-XXXX Classification Skin Irrit. 2 - H315; Eye Dam. 1 - H318; STOT SE 3 - H335	
Crystalline Silica	0.25 - <0.5%
CAS No. 1317-95-9 Classification STOT RE 1 - H372	
Calcium dihydroxide	0.025 - <0.25%
CAS No. 1305-62-0 EC No. 215-137-3 Classification Skin Irrit. 2 - H315; Eye Dam. 1 - H318; STOT SE 3 - H335	

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

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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	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention. Place unconscious person on their side in the recovery position and ensure breathing can take place.
Ingestion	Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Never give anything by mouth to an unconscious person. Place unconscious person on their side in the recovery position and ensure breathing can take place. Keep affected person under observation. Get medical attention.
Skin contact	Brush off loose particles from skin. It is important to remove the substance from the skin immediately. In the event of any sensitisation symptoms developing, ensure further exposure is avoided. Remove contamination with soap and water or recognised skin cleansing agent. Get medical attention if symptoms are severe or persist after washing.
Eye contact	Rinse immediately with plenty of water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue

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

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	A single exposure may cause the following adverse effects: Irritation of nose, throat and airway. Difficulty in breathing. Coughing.
Ingestion	May cause sensitisation or allergic reactions in sensitive individuals. May cause irritation.
Skin contact	May cause skin sensitisation or allergic reactions in sensitive individuals. Redness. Irritating to skin.
Eye contact	Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.

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

Notes for the doctor	Treat symptomatically. May cause sensitisation or allergic reactions in sensitive individuals.
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5.1. Extinguishing media

Suitable extinguishing media

The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards

None known.

Hazardous combustion products

Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting

Avoid breathing fire gases or vapours. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Avoid inhalation of dust and vapours. Use suitable respiratory protection if ventilation is inadequate. Avoid contact with skin and eyes.

6.2. Environmental precautions

Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Neutralise with acid. Caution. May generate heat. Following dilution and neutralisation, discharge to the sewer with plenty of water may be permitted. The requirements of the local water authority must be complied with if contaminated water is flushed directly to the sewer. For waste disposal, see Section 13.

6.4. Reference to other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions on safe handling

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Usage precautions Keep out of the reach of children. Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. Avoid handling which leads to dust formation. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

Advice on general occupational hygiene Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store locked up. Store away from the following materials: Acids. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.

Storage class Acid-reactive storage.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Long-term exposure limit (8-hr TWA)	WEL 10 mg/m ³	inhalable dust
Long-term exposure limit (8-hr TWA)	WEL 4 mg/m ³	respirable dust

Calcium carbonate

Long-term exposure limit (8-hr TWA)	WEL 10 mg/m ³	inhalable dust
Long-term exposure limit (8-hr TWA)	WEL 4 mg/m ³	respirable dust

Cement, portland, chemicals

Long-term exposure limit (8-hr TWA)	WEL 10 mg/m ³	inhalable dust
Long-term exposure limit (8-hr TWA)	WEL 4 mg/m ³	respirable dust

Calcium dihydroxide

Long-term exposure limit (8-hr TWA)	WEL 5 mg/m ³	
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Crystalline Silica

Long-term exposure limit (8-hr TWA)	WEL 0.1 mg/m ³	respirable dust
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Calcium dihydroxide

Long-term exposure limit (8-hr TWA)	WEL 5 mg/m ³	
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WEL = Workplace Exposure Limit

Calcium dihydroxide (CAS: 1305-62-0)

DNEL

Workers - Inhalation; Long term local effects: 1 mg/m³
Workers - Inhalation; Short term local effects: 4 mg/m³
General population - Inhalation; Long term local effects: 1 mg/m³
General population - Inhalation; Short term local effects: 4 mg/m³

PNEC

- Fresh water; 0.49 mg/l
- Marine water; 0.32 mg/l
- STP; 3 mg/l
- Soil; 1080 mg/kg

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Lithium carbonate (CAS: 554-13-2)

DNEL

Workers - Inhalation; Long term systemic effects: 10 mg/m³
Workers - Inhalation; Short term systemic effects: 30 mg/m³
Workers - Dermal; Long term systemic effects: 64.3 mg/kg/day
Workers - Dermal; Short term systemic effects: 100 mg/kg/day
General population - Inhalation; Long term systemic effects: 9.64 mg/m³
General population - Inhalation; Short term systemic effects: 28.92 mg/m³
General population - Dermal; Long term systemic effects: 64.3 mg/kg/day
General population - Dermal; Short term systemic effects: 50 mg/kg/day
General population - Oral; Long term systemic effects: 6.43 mg/kg/day
General population - Oral; Short term systemic effects: 19.23 mg/kg/day³

PNEC

- Fresh water; 9 mg/l
- Marine water; 0.9 mg/l
- Intermittent release; 0.3 mg/l
- STP; 122.2 mg/l
- Sediment (Freshwater); 35.2 mg/kg
- Sediment (Marine water); 3.52 mg/kg
- Soil; 1.76 mg/kg

Calcium dihydroxide (CAS: 1305-62-0)

DNEL

Workers - Inhalation; Long term local effects: 1 mg/m³
Workers - Inhalation; Short term local effects: 4 mg/m³
General population - Inhalation; Long term local effects: 1 mg/m³
General population - Inhalation; Short term local effects: 4 mg/m³

PNEC

- Fresh water; 0.49 mg/l
- Marine water; 0.32 mg/l
- STP; 3 mg/l
- Soil; 1080 mg/kg

Trisodium citrate (CAS: 68-04-2)

PNEC

- Fresh water; 0.44 mg/l
- Marine water; 0.044 mg/l
- STP; 1000 mg/l
- Sediment (Freshwater); 34.6 mg/kg
- Sediment (Marine water); 3.46 mg/kg
- Soil; 33.1 mg/kg

Citric acid (CAS: 77-92-9)

PNEC

- Fresh water; 0.44 mg/l
- Marine water; 0.044 mg/l
- STP; 1000 mg/l
- Sediment (Freshwater); 34.6 mg/kg
- Sediment (Marine water); 3.46 mg/kg
- Soil; 33.1 mg/kg

8.2. Exposure controls

Protective equipment

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Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

Avoid contact with eyes. Large Spillages: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

Hand protection

Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

Other skin and body protection

May cause skin sensitisation or allergic reactions in sensitive individuals. Wear appropriate clothing to prevent repeated or prolonged skin contact.

Respiratory protection

No specific recommendations. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.

Hygiene measures

Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

Environmental exposure controls

Keep container tightly sealed when not in use. Avoid release to the environment.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Sand. Cement. Powder.
Colour	Various colours.
Odour	Slight.
Odour threshold	Not determined.
pH	≥ 11.5
Melting point	Not determined.
Initial boiling point and range	Not determined.
Flash point	Not determined.
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Flammability (solid, gas)	Not determined.
Upper/lower flammability or explosive limits	Not determined.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	Not determined.
Bulk density	Not determined.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition temperature	Not determined.
Viscosity	Not determined.
Explosive properties	Not considered to be explosive.
Oxidising properties	The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidizing.

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9.2. Other information

No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stable at normal ambient temperatures and when used as recommended.
Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

No potentially hazardous reactions known.

10.4. Conditions to avoid

There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials

Materials to avoid

Acid anhydrides. Acids. Phenols, cresols.

10.6. Hazardous decomposition products

Does not decompose when used and stored as recommended.
Thermal decomposition or combustion products may include the following substances:
Harmful gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀)

Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀)

Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀)

Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Eye Dam. 1 - H318 Causes serious eye damage.

Respiratory sensitisation

Based on available data the classification criteria are not met.

Skin sensitisation

May cause skin sensitisation or allergic reactions in sensitive individuals.

Germ cell mutagenicity

Genotoxicity - in vitro

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

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IARC carcinogenicity	Contains a substance which may be potentially carcinogenic. IARC Group 3 Not classifiable as to its carcinogenicity to humans.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.
<u>Aspiration hazard</u>	Not relevant. Solid.
General information	Dust may irritate the eyes and the respiratory system. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	A single exposure may cause the following adverse effects: Irritation of nose, throat and airway. Difficulty in breathing. Coughing.
Ingestion	May cause sensitisation or allergic reactions in sensitive individuals. May cause irritation.
Skin contact	May cause skin sensitisation or allergic reactions in sensitive individuals. Redness. Irritating to skin.
Eye contact	Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.
Route of entry	Ingestion Inhalation Skin and/or eye contact.
Target organs	Respiratory system, lungs.
Medical considerations	Skin disorders and allergies.

Calcium carbonate

<u>Acute toxicity - oral</u>	
Notes (oral LD₅₀)	> 2000 mg/kg, Rat REACH dossier information.
<u>Acute toxicity - dermal</u>	
Notes (dermal LD₅₀)	> 2000 mg/kg, Rat REACH dossier information.
<u>Skin corrosion/irritation</u>	
Animal data	Dose: 0.5 g, 4 hours, Rabbit Erythema/eschar score: No erythema (0). Oedema score: No oedema (0). REACH dossier information. Not irritating.
<u>Serious eye damage/irritation</u>	
	Dose: 0.1 ml (61 mg), 72 hours, Rabbit REACH dossier information. Not irritating.
<u>Skin sensitisation</u>	
	Local Lymph Node Assay (LLNA) - Mouse: Not sensitising. REACH dossier information.

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Germ cell mutagenicity

Genotoxicity - in vitro

Chromosome aberration: Negative. REACH dossier information.

Reproductive toxicity

Reproductive toxicity - fertility

Screening - NOEL 1000 mg/kg/day, Oral, Rat P REACH dossier information. No evidence of reproductive toxicity in animal studies.

Reproductive toxicity - development

Developmental toxicity: - NOAEC: > 1.25 %, Oral, Rat REACH dossier information.

Cement, alumina, chemicals

Acute toxicity - oral

Notes (oral LD₅₀)

LD₅₀ >2000 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀)

LD₅₀ >2000 mg/kg, Dermal, Rat REACH dossier information. Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀)

LC₅₀ 7.6 mg/l, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data

Dose: 0.5 g, 4 hours, Rabbit Primary dermal irritation index: 0 REACH dossier information. Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation

Dose: 62 mg, 24 hours, Rabbit REACH dossier information. Causes serious eye irritation.

Skin sensitisation

Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro

Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Genotoxicity - in vivo

Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - development

Embryotoxicity: Teratogenicity: - NOAEL: 266 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Aspiration hazard

Not relevant. Solid.

Cement, portland, chemicals

Skin corrosion/irritation

Animal data

Skin Irrit. 2 - H315 Causes skin irritation.

Serious eye damage/irritation

Eye Dam. 1 - H318 Causes serious eye damage.

Skin sensitisation

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

Specific target organ toxicity - single exposure

STOT - single exposure

STOT SE 3 - H335 May cause respiratory irritation.

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Calcium dihydroxide

Acute toxicity - oral

Notes (oral LD₅₀)

LD₅₀: >2000 mg/kg, Oral, Rat REACH dossier information.

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg)

2,500.0

Species

Rabbit

Notes (dermal LD₅₀)

REACH dossier information.

ATE dermal (mg/kg)

2,500.0

Skin corrosion/irritation

Animal data

Dose: 0.5 g, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2). Oedema score: Very slight oedema - barely perceptible (1). REACH dossier information. Irritating.

Serious eye damage/irritation

Causes serious eye damage.

Germ cell mutagenicity

Genotoxicity - in vitro

Chromosome aberration: Negative. REACH dossier information.

Carcinogenicity

NOAEL 21500 mg/kg/day, Oral, Rat REACH dossier information. Read across data. No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Reproductive toxicity - development

Developmental toxicity: - NOAEL: ≥ 440 mg/kg/day, Oral, Mouse REACH dossier information. Read across data. No evidence of reproductive toxicity in animal studies.

Specific target organ toxicity - single exposure

STOT - single exposure

STOT SE 3 - H335 May cause respiratory irritation.

Target organs

Respiratory system, lungs.

Crystalline Silica

Specific target organ toxicity - repeated exposure

STOT - repeated exposure

STOT RE 1 - H372 Causes damage to organs through prolonged or repeated exposure if inhaled.

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Ecotoxicity The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

12.1. Toxicity

Toxicity Based on available data the classification criteria are not met.

Calcium carbonate

Toxicity Aquatic toxicity is unlikely to occur. Based on available data the classification criteria are not met.

Acute toxicity - fish LC₅₀, 96 hours: > 100 %, Onchorhynchus mykiss (Rainbow trout)
NOEC, 96 hours: > 100 %, Onchorhynchus mykiss (Rainbow trout)
REACH dossier information.

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: > 100 %, Daphnia magna
NOEC, 48 hours: 100 %, Daphnia magna
REACH dossier information.

Acute toxicity - aquatic plants EC₁₀, 72 hours: > 14 mg/l, Desmodemus subspicatus
EC₂₀, 72 hours: > 14 mg/l, Desmodemus subspicatus
EC₅₀, 72 hours: > 14 mg/l, Desmodemus subspicatus
NOEC, 72 hours: 14 mg/l, Desmodemus subspicatus
REACH dossier information.

Acute toxicity - microorganisms EC₅₀, 3 hours: > 1000 mg/l, Activated sludge
NOEC, 3 hours: 1000 mg/l, Activated sludge
REACH dossier information.

Cement, alumina, chemicals

Toxicity Based on available data the classification criteria are not met.

Acute toxicity - fish LC₅₀, 96 hours: >100 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 5.4 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 3.6 mg/l, Selenastrum capricornutum

Acute toxicity - microorganisms EC₅₀, 3 hours: >1000 mg/l, Activated sludge

Cement, portland, chemicals

Toxicity Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

Calcium dihydroxide

Acute toxicity - fish LC₅₀, 96 hours: 457 mg/l, Gasterosteus aculeatus (Three-spined stickleback)
REACH dossier information.

Acute toxicity - aquatic invertebrates LC₅₀, 96 hours: 158 mg/l, Crangon septemspinosa
REACH dossier information.

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Acute toxicity - aquatic plants	EC ₁₀ , 72 hours: 79.22 mg/l, Pseudokirchneriella subcapitata EC ₂₀ , 72 hours: 106.02 mg/l, Pseudokirchneriella subcapitata EC ₅₀ , 72 hours: 184.57 mg/l, Pseudokirchneriella subcapitata LOEC, 72 hours: 80 mg/l, Pseudokirchneriella subcapitata NOEC, 72 hours: 48 mg/l, Pseudokirchneriella subcapitata REACH dossier information.
Acute toxicity - microorganisms	EC ₂₀ , 3 hours: 229.2 mg/l, Activated sludge EC ₅₀ , 3 hours: 300.4 mg/l, Activated sludge REACH dossier information.
Acute toxicity - terrestrial	NOEC, 4 weeks: 2000 mg/kg, Eisenia Fetida (Earthworm) REACH dossier information.
Chronic toxicity - aquatic invertebrates	LC ₅₀ , 14 days: 53.1 mg/l, Crangon septemspinosa NOEC, 14 days: 32 mg/l, Crangon septemspinosa REACH dossier information.
Toxicity to soil	NOEC, 96 days: 4000 mg/kg, Soil EC ₅₀ , 28 days: > 12000 mg/kg, Soil REACH dossier information.
Toxicity to terrestrial plants	EC ₅₀ , 21 days: 5640 mg/kg, Allium porrum REACH dossier information.

Crystalline Silica

Toxicity No negative effects on the aquatic environment are known.

12.2. Persistence and degradability

Persistence and degradability The degradability of the product is not known.

Calcium carbonate

Persistence and degradability The product contains only inorganic substances which are not biodegradable.

Cement, alumina, chemicals

Persistence and degradability The product contains only inorganic substances which are not biodegradable.

Crystalline Silica

Persistence and degradability The product contains only inorganic substances which are not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

Calcium carbonate

Bioaccumulative potential No data available on bioaccumulation.

Cement, alumina, chemicals

Bioaccumulative potential No data available on bioaccumulation.

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Partition coefficient	Technically not feasible.
Bioaccumulative potential	<u>Calcium dihydroxide</u> The product is not bioaccumulating.
Bioaccumulative potential	<u>Crystalline Silica</u> No data available on bioaccumulation.
<u>12.4. Mobility in soil</u>	
Mobility	No data available.
Mobility	<u>Calcium carbonate</u> The product is soluble in water.
Mobility	<u>Cement, alumina, chemicals</u> The product is soluble in water.
Mobility	<u>Cement, portland, chemicals</u> No information available.
Mobility	<u>Calcium dihydroxide</u> The product is soluble in water.
Surface tension	72 mN/m @ 20°C REACH dossier information.
Mobility	<u>Crystalline Silica</u> No data available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	<u>Calcium carbonate</u> Substance is inorganic. Not relevant.
Results of PBT and vPvB assessment	<u>Cement, alumina, chemicals</u> Not relevant. Substance is inorganic.
Results of PBT and vPvB assessment	<u>Calcium dihydroxide</u> This substance is not classified as PBT or vPvB according to current EU criteria.
Results of PBT and vPvB assessment	<u>Crystalline Silica</u> Substance is inorganic. Not relevant.

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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General information	The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).
<u>14.1. UN number</u>	Not applicable.
<u>14.2. UN proper shipping name</u>	Not applicable.
<u>14.3. Transport hazard class(es)</u> Hazard class	No transport warning sign required.
<u>14.4. Packing group</u>	Not applicable.
<u>14.5. Environmental hazards</u> Environmentally hazardous substance/marine pollutant	No.
<u>14.6. Special precautions for user</u>	Not applicable.
<u>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</u>	Not applicable.

SECTION 15: Regulatory information

<u>15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture</u>	
National regulations	EH40/2005 Workplace exposure limits.
EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Restrictions (Title VIII Regulation 1907/2006)	Entry number: 47
<u>15.2. Chemical safety assessment</u>	
No chemical safety assessment has been carried out.	

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SECTION 16: Other information

Classification procedures according to Regulation (EC) 1272/2008

Eye Dam. 1 - H318; Skin Sens. 1 - H317: Calculation method.

Training advice

Read and follow manufacturers recommendations.

Hazard statements in full

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H319 - Causes serious eye irritation.

H335 - May cause respiratory irritation.

H372 - Causes damage to organs through prolonged or repeated exposure if inhaled.

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

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 Magma HardMaster W621 Liquid Component
Part.2 of 2 covers HardMaster W621 liquid component only.

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

Identified Uses Polymer bedding mortar additive.

1.3. Details of the supplier of the safety data sheet

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

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 EUH208
Most important adverse effects Contains 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

2.2. Label Elements

Hazard statement(s) EUH208: Contains 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

Precautionary statement(s) P262 - Do not get in eyes, on skin, or on clothing.
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302+P350 - IF ON SKIN: Gently 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.
P502 - Refer to manufacturer/supplier for information on recovery/recycling.

2.3. Other hazards

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

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SECTION 3: Composition/information on ingredients

3.1. Substance

3.2. Mixtures

SECTION 4: First aid measures

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

4.1. Description of first aid measures

Inhalation	Consult a doctor.
Ingestion	Wash out mouth with water.
Skin contact	Wash immediately with plenty of soap and water.
Eye contact	Bathe the eye with running water for 15 minutes.

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

Inhalation	No symptoms.
Ingestion	There may be irritation of the throat.
Skin contact	There may be mild irritation at the site of contact.
Eye contact	There may be irritation and redness.
Delayed/immediate effects	Immediate effects can be expected after short-term exposure.

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

Immediate/special treatment	Not applicable.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.
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5.2. Special hazards arising from the substance or mixture

Exposure hazards	In combustion emits toxic fumes.
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5.3. Advice for firefighters

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

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Clean-up procedures	Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.
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6.4. Reference to other sections

Refer to Section 8 of SDS. Refer to Section 13 of SDS.

SECTION 7: Handling and storage

7.1. Precautions on safe handling

Handling requirements Ensure there is sufficient ventilation of the area. Ensure there is exhaust ventilation of the area.

7.2. Conditions for safe storage, including any incompatibilities

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

Suitable packaging Must only be kept in original packaging.

7.3. Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits No data available.

DNEL/PNEC Values No data available.

8.2. Exposure controls

Engineering measures Ensure there is sufficient ventilation of the area. Ensure there is exhaust ventilation of the area. Ensure all engineering measures mentioned in Section 7 of SDS are in place.

Eye protection Safety glasses. Ensure eye bath is on hand.

Hand protection Protective gloves. BS EN 374:2003

Skin protection Protective clothing.

Respiratory protection Respiratory protection not required.

Environmental Refer to specific Member State legislation for requirements under Community environmental legislation.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

State	Liquid
Colour	Off-white
Odour	Characteristic
Evaporation rate	Negligible
Oxidising	Non-oxidising (by EC criteria)
Solubility in water	Miscible in all proportions
Also soluble in	Most organic solvents
Viscosity	Viscous
Boiling point/range (°C)	No data available
Melting point/range (°C)	No data available
Flammability limit	
lower, %	No data available
upper, %	No data available

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Flash point (°C)	No data available
Part. Coeff. n-octanol/water	No data available
Autoflammability (°C)	No data available
Vapour pressure	No data available
Relative density	1.010
pH	10 - 11.5
VOC (g/l)	No data available

9.2. Other information

Not applicable.

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

Heat.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values No data available.

Symptoms / Routes of Exposure

Inhalation No symptoms.

Ingestion There may be irritation of the throat.

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

Eye contact There may be irritation and redness.

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

Other information Not applicable.

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SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity values No data available.

12.2. Persistence and degradability

Biodegradable.

12.3. Bioaccumulative potential

No bioaccumulation potential.

12.4. Mobility in soil

Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Negligible ecotoxicity.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations Transfer to a suitable container and arrange for collection by specified disposal company. Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the other possible disposal operations (e.g., evaporation, drying, calcination, etc.)

Recovery operations Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).

Waste code number 08 02 99

Disposal of packaging Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

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

SECTION 14: Transport information

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

This product does not require a classification for transport.

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: Regulatory information

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

Specific regulations Not applicable.

15.2. Chemical safety assessment

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

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SECTION 16: Other information

Other information	This safety data sheet is prepared in accordance with Commission Regulation (EU) No. 2015/830.
Phrases used in s.2 and s.3	EUH208: Contains <name of sensitising substance>. May produce an allergic reaction.

Disclaimer

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