

# SAFETY DATA SHEET

### Tarmac Hi-Flow Renovation

According to Regulation (EC) No 1907/2006, Annex II, as amended.

## SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Product name **Tarmac Hi-Flow Renovation** 1.2. Relevant identified uses of the substance or mixture and uses advised against Identified uses Floor leveller. Uses advised against No specific uses advised against are identified. 1.3. Details of the supplier of the safety data sheet Supplier Tarmac Building Products Ltd i10 Interchange **Railway Drive** Wolverhampton WV1 1LH Telephone: 03444 63 64 65 packedproducts@tarmacbp.co.uk 1.4. Emergency telephone number **Emergency telephone** 03444 63 00 46 (Office Hours) SECTION 2: Hazards identification 2.1. Classification of the substance or mixture Classification (EC 1272/2008) Physical hazards Not Classified Health hazards Eye Irrit. 2 - H319 Skin Sens. 1 - H317 **Environmental hazards** Not Classified 2.2. Label elements Pictogram Signal word Warning Hazard statements H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

Precautionary statements	<ul> <li>P102 Keep out of reach of children.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>P302+P352 IF ON SKIN: Wash with plenty of water.</li> <li>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337+P313 If eye irritation persists: Get medical advice/ attention.</li> <li>P501 Dispose of contents/ container in accordance with national regulations.</li> </ul>
Contains	Cement, portland, chemicals
Supplementary precautionary statements	P261 Avoid breathing dust. P264 Wash contaminated skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P362+P364 Take off contaminated clothing and wash it before reuse.

### 2.3. Other hazards

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

# SECTION 3: Composition/information on ingredients

3.2. Mixtures		
Calcium carbonate		25 - <50%
CAS number: 471-34-1	EC number: 207-439-9	
Substance with National workplace	exposure limits.	
Classification		
Not Classified		
Cement, alumina, chemicals		10 - <25%
CAS number: 65997-16-2	EC number: 266-045-5	
Classification		
Eye Irrit. 2 - H319		
Plaster of Paris		5 - <10%
CAS number: 26499-65-0		
Classification		
Not Classified		
Cement, portland, chemicals		2.5 - <5%
CAS number: 65997-15-1	EC number: 266-043-4	
Classification		
Skin Irrit. 2 - H315		
Eye Dam. 1 - H318		
Skin Sens. 1 - H317		
STOT SE 3 - H335		

Crystalline Silica		0.25 - <0.5%
CAS number: 1317-95-9		
Classification STOT RE 1 - H372		
Calcium dihydroxide		0.025 - <0.25%
CAS number: 1305-62-0	EC number: 215-137-3	REACH registration number: 01- 2119475151-45-XXXX
<b>Classification</b> Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335		
Silicon dioxide		<0.025%
CAS number: 7631-86-9	EC number: 231-545-4	
Substance with National wor	rkplace exposure limits.	
Classification Not Classified		
The full text for all hazard sta	tements is displayed in Section 16.	
SECTION 4: First aid measur	res	
4.1. Description of first aid me	easures	
General information	Get medical attention if any discomfort conti personnel.	inues. Show this Safety Data Sheet to the medical
Inhalation	breathing. Maintain an open airway. Loosen	
Ingestion	the affected person feels sick as vomiting m to an unconscious person. Place unconscio	few small glasses of water or milk to drink. Stop if hay be dangerous. Never give anything by mouth us person on their side in the recovery position affected person under observation. Get medical
Skin contact	immediately. In the event of any sensitisatio	ortant to remove the substance from the skin on symptoms developing, ensure further exposure p and water or recognised skin cleansing agent. re or persist after washing.
Eye contact	Rinse immediately with plenty of water. Do need to be a set of the	not rub eye. Remove any contact lenses and open east 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 symptom	s and effects, both acute and delayed	
General information	The severity of the symptoms described will length of exposure.	vary dependent on the concentration and the

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 irritation. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.
4.2 Indication of any immedia	to modical attention and another tractment peopled

#### 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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### **SECTION 5: Firefighting measures**

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 fr	om 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

Personal precautions 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

Environmental precautions Avoid discharge into drains or watercourses or onto the ground.

#### 6.3. Methods and material for containment and cleaning up

Reference to other sections       For personal protection, see Section 1.2 for additional information on ecological hazards. For waste disposal, see Section 1.3.         SECTION 7: Handling and storage       I.1 Precautions for safe handling         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 containers for 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.         7.1. Conditions exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust Long-te	Methods for cleaning up 6.4. Reference to other section	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.
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Long-term exposure limit (8-hour TWA): WEL 0.1 mg/m<sup>3</sup> respirable dust

### Calcium dihydroxide

Long-term exposure limit (8-hour TWA): WEL 5 mg/m<sup>3</sup>

#### Silicon dioxide

Long-term exposure limit (8-hour TWA): WEL 6 mg/m<sup>3</sup> inhalable dust Long-term exposure limit (8-hour TWA): WEL 2.4 mg/m<sup>3</sup> respirable dust WEL = Workplace Exposure Limit

### Lithium carbonate (CAS: 554-13-2)

DNEL	Workers - Inhalation; Long term systemic effects: 10 mg/m <sup>3</sup> Workers - Inhalation; Short term systemic effects: 30 mg/m <sup>3</sup> 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/m <sup>3</sup> General population - Inhalation; Short term systemic effects: 28.92 mg/m <sup>3</sup> 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; Short term systemic effects: 6.43 mg/kg/day General population - Oral; Short term systemic effects: 19.23 mg/kg/day
PNEC	<ul> <li>Fresh water; 9 mg/l</li> <li>Marine water; 0.9 mg/l</li> <li>Intermittent release; 0.3 mg/l</li> <li>STP; 122.2 mg/l</li> <li>Sediment (Freshwater); 35.2 mg/kg</li> <li>Sediment (Marinewater); 3.52 mg/kg</li> <li>Soil; 1.76 mg/kg</li> </ul>
	(+)-Tartaric acid (CAS: 87-69-4)
DNEL	Workers - Inhalation; Long term systemic effects: 5.2 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 2.9 mg/kg/day General population - Inhalation; Long term systemic effects: 1.3 mg/m <sup>3</sup> General population - Dermal; Long term systemic effects: 1.5 mg/kg/day General population - Oral; Long term systemic effects: 8.1 mg/kg/day
PNEC	<ul> <li>Fresh water; 0.312 mg/l</li> <li>Marine water; 0.312 mg/l</li> <li>Intermittent release; 0.514 mg/l</li> <li>STP; 10 mg/l</li> <li>Sediment (Freshwater); 1.141 mg/kg/day</li> <li>Sediment (Marinewater); 1.141 mg/kg/day</li> <li>Soil; 0.045 mg/kg/day</li> </ul>
eure controle	

### 8.2. Exposure controls

#### Protective equipment



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.
Hygiene measures	Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.
Respiratory protection	No specific recommendations. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.
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 phys	ical and chemical properties
Appearance	Sand. Cement. Powder.
Odour	Slight.
Odour threshold	Not determined.
рН	≥ 11.5
Melting point	~ 1250°C
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	~ 3.0
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 oxidising.
9.2. Other information	
Other information	No information required.
SECTION 10: Stability and rea	activity
10.1. Reactivity	
Reactivity	There are no known reactivity hazards associated with this product.
10.2. Chemical stability	
Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
10.3. Possibility of hazardous	reactions
Possibility of hazardous reactions	No potentially hazardous reactions known.
10.4. Conditions to avoid	
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 decompositio	on products
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 int	formation
11.1. Information on toxicologi	cal effects
<u>Acute toxicity - oral</u> 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.
Notes (dermal LD <sub>50</sub> ) <u>Acute toxicity - inhalation</u> Notes (inhalation LC <sub>50</sub> )	Based on available data the classification criteria are not met. Based on available data the classification criteria are not met.
Acute toxicity - inhalation	
Acute toxicity - inhalation Notes (inhalation LC <sub>50</sub> ) Skin corrosion/irritation	Based on available data the classification criteria are not met.
Acute toxicity - inhalation Notes (inhalation LC <sub>50</sub> ) Skin corrosion/irritation Animal data Serious eye damage/irritation	Based on available data the classification criteria are not met. Based on available data the classification criteria are not met.
Acute toxicity - inhalation Notes (inhalation LC <sub>50</sub> ) Skin corrosion/irritation Animal data Serious eye damage/irritation Serious eye damage/irritation Respiratory sensitisation	Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Eye Irrit. 2 - H319 Causes serious eye irritation.
Acute toxicity - inhalation Notes (inhalation LC <sub>50</sub> ) Skin corrosion/irritation Animal data Serious eye damage/irritation Serious eye damage/irritation Respiratory sensitisation Respiratory sensitisation Skin sensitisation	Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Eye Irrit. 2 - H319 Causes serious eye irritation. Based on available data the classification criteria are not met.

Carcinogenicity	Based on available data the classification criteria are not met.		
IARC carcinogenicity	Contains a substance which may be potentially carcinogenic. IARC Group 3 Not classifiable as to its carcinogenicity to humans.		
Reproductive toxicity			
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.		
Specific target organ toxicity -	single exposure		
STOT - single exposure	Based on available data the classification criteria are not met.		
Specific target organ toxicity -	repeated exposure		
STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.		
Aspiration hazard Aspiration hazard	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 irritation. 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.		
Toxicological information on in	gredients.		
	Calcium carbonate		
Acute toxicity - or			
Notes (oral LD <sub>50</sub> )	> 2000 mg/kg, Rat REACH dossier information.		
Acute toxicity - de			
Notes (dermal LD			

Skin corrosion/irritation

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.

### Serious eye damage/irritation

Serious eye damage/irritation	Dose: 0.1 ml (61 mg), 72 hours, Rabbit REACH dossier information. Not irritating.
Skin sensitisation	

Skin sensitisation	Local Lymph Node Assay (LLNA) - Mouse: Not sensitising. REACH dossier information.	
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 LD <sub>50</sub> )	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 $LC_{50}$ )	$LC_{50}$ 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/irritat	ion	
Serious eye damage/irritation	Dose: 62 mg, 24 hours, Rabbit REACH dossier information. Causes serious eye irritation.	
Skin sensitisation		
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		
Aspiration hazard	Not relevant. Solid.	
Plaster of Paris		

Toxicological effects Not regarded as a health hazard under current legislation.

### Cement, portland, chemicals

Cement, portland, chemicals		
Skin corrosion/irritation		
Animal data	Skin Irrit. 2 - H315 Causes skin irritation.	
Serious eye damage/irritation	on	
Serious eye damage/irritation	Eye Dam. 1 - H318 Causes serious eye damage.	
Skin sensitisation		
Skin sensitisation	Skin Sens. 1 - H317 May cause an allergic skin reaction.	
Specific target organ toxicit	y - single exposure	
STOT - single exposure	STOT SE 3 - H335 May cause respiratory irritation.	
	Crystalline Silica	
Specific target organ toxicit	y - repeated exposure	
STOT - repeated exposure	STOT RE 1 - H372 Causes damage to organs through prolonged or repeated exposure if inhaled.	
	Calcium dihydroxide	
Acute toxicity - oral		
Notes (oral LD <sub>50</sub> )	LD₅₀ : >2000 mg/kg, Oral, Rat REACH dossier information.	
Acute toxicity - dermal		
Acute toxicity dermal (LD₅ 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	on	
Serious eye damage/irritation	Causes serious eye damage.	
Germ cell mutagenicity		
Genotoxicity - in vitro	Chromosome aberration: Negative. REACH dossier information.	
Carcinogenicity		
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	
	Silicon dioxide	
Toxicological effects	Not regarded as a health hazard under current legislation.	
Acute toxicity - oral		
Notes (oral LD₅₀)	> 5000 mg/kg, Rat REACH dossier information. Based on available data the classification criteria are not met.	
Acute toxicity - dermal		
Notes (dermal LD₅₀)	> 2000 mg/kg, Rabbit, REACH dossier information. Based on available data the classification criteria are not met.	
Acute toxicity - inhalation		
Notes (inhalation LC₅₀)	No information available.	
Skin corrosion/irritation		
Animal data	Dose: 0.5 g, 4 hours, Rabbit Primary dermal irritation index: 0 REACH dossier information. Not irritating.	
Serious eye damage/irritati	ion	
Serious eye damage/irritation	Dose: 100 mg, 24 hours, Rabbit REACH dossier information. Not irritating.	
Respiratory sensitisation		
Respiratory sensitisation	No information available.	
Skin sensitisation		
Skin sensitisation	No information available.	
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	Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.	
Carcinogenicity		
Carcinogenicity	NOAEL 5 %, Oral, Rat REACH dossier information.	
IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.	
Reproductive toxicity		
Reproductive toxicity - development	Maternal toxicity: - NOAEL: 1350 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.	
Specific target organ toxici	ty - single exposure	
STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.	
Specific target organ toxici	ty - repeated exposure	
STOT - repeated exposure	NOEL < 4500 mg/kg/day, Oral, Rat REACH dossier information. Not classified as a specific target organ toxicant after repeated exposure.	

	Aspiration hazard	
	Aspiration hazard	Not relevant.
<b>SECTION 1</b>	2: Ecological Information	
Ecotoxicity	The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.	
12.1. Toxici	<u>by</u>	
Toxicity	Based on available data the classification criteria are not met.	
Ecological in	nformation on ingredients	<u>}.</u>
		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	EC <sub>10</sub> , 72 hours: > 14 mg/l, Desmodesmus subspicatus EC <sub>20</sub> , 72 hours: > 14 mg/l, Desmodesmus subspicatus EC <sub>50</sub> , 72 hours: > 14 mg/l, Desmodesmus subspicatus NOEC, 72 hours: 14 mg/l, Desmodesmus 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
		Plaster of Paris
	Toxicity	No negative effects on the aquatic environment are known.
		Cement, portland, chemicals

Toxicity	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.
	Crystalline Silica
Toxicity	No negative effects on the aquatic environment are known.
	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.
Acute toxicity - aquatic plants	EC <sub>10</sub> , 72 hours: 79.22 mg/l, Pseudokirchneriella subcapitata EC <sub>20</sub> , 72 hours: 106.02 mg/l, Pseudokirchneriella subcapitata EC <sub>50</sub> , 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	EC₂o, 3 hours: 229.2 mg/l, Activated sludge EC₅o, 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	LC₅₀, 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 EC₅₀, 28 days: > 12000 mg/kg, Soil REACH dossier information.
Toxicity to terrestial plants	EC₅o, 21 days: 5640 mg/kg, Allium porrum REACH dossier information.
	Silicon dioxide
Toxicity	Aquatic toxicity is unlikely to occur. Based on available data the classification criteria are not met.
Acute toxicity - fish	LL₀, 96 hours: 10000 mg/l, Brachydanio rerio (Zebra Fish) REACH dossier information.
Acute toxicity - aquatic invertebrates	EL₅o, 24 hours: > 1000 mg/l, Daphnia magna REACH dossier information.
12.2. Persistence and degradability Persistence and degradability. The degr	radability of the product is not known

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

Ecological information on ingredients.

Calcium carbonate

	Persistence and degradability	The product contains only inorganic substances which are not biodegradable.
		Cement, alumina, chemicals
	Persistence and degradability	The product contains inorganic substances which are not biodegradable.
		Plaster of Paris
	Persistence and degradability	The product contains inorganic substances which are not biodegradable.
		Crystalline Silica
	Persistence and degradability	The product contains only inorganic substances which are not biodegradable.
		Silicon dioxide
	Persistence and degradability	Substance is inorganic.
12.3. Bioac	cumulative potential	
Bioaccumu	lative potential No data	available on bioaccumulation.
Partition co	efficient Not dete	ermined.
Ecological i	information on ingredients.	
		Calcium carbonate
	Bioaccumulative potential	No data available on bioaccumulation.
		Cement, alumina, chemicals
	Bioaccumulative potential	No data available on bioaccumulation.
	Partition coefficient	Technically not feasible.
		Plaster of Paris
	Bioaccumulative potential	No data available on bioaccumulation.
		Crystalline Silica
	Bioaccumulative potential	No data available on bioaccumulation.
		Calcium dihydroxide
	Bioaccumulative potential	The product is not bioaccumulating.
		Silicon dioxide
	Bioaccumulative potential	No data available on bioaccumulation.
12.4 Mobil	ity in coll	

12.4. Mobility in soil

Mobility	No data a	available.
Ecological inform	nation on ingredients.	
		Calcium carbonate
Мо	bility	The product is soluble in water.
		Cement, alumina, chemicals
Мо	bility	The product is soluble in water.
		Plaster of Paris
Мо	bility	The product is insoluble in water.
		Cement, portland, chemicals
Мо	bility	No information available.
		Crystalline Silica
Мо	bility	No data available.
		Calcium dihydroxide
Мо	bility	The product is soluble in water.
Su	rface tension	72 mN/m @ 20°C REACH dossier information.
		Silicon dioxide
Мо	bility	Slightly soluble in water.
	PBT and vPvB assessme	ent
Ecological inform	nation on ingredients.	
		Calcium carbonate
	sults of PBT and vPvB sessment	Substance is inorganic. Not relevant.
		Cement, alumina, chemicals
	sults of PBT and vPvB sessment	Not relevant. Substance is inorganic.
		Plaster of Paris
	sults of PBT and vPvB sessment	Not relevant. Substance is inorganic.
		Crystalline Silica
	sults of PBT and vPvB sessment	Substance is inorganic. Not relevant.

### Calcium dihydroxide

**Results of PBT and vPvB** This substance is not classified as PBT or vPvB according to current EU criteria. assessment

### Silicon dioxide

**Results of PBT and vPvB** This substance is not classified as PBT or vPvB according to current EU criteria. assessment

#### 12.6. Other adverse effects

Other adverse effects None known.

#### SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

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).

#### 14.1. UN number

Not applicable.

#### 14.2. UN proper shipping name

Not applicable.

#### 14.3. Transport hazard class(es)

No transport warning sign required.

#### 14.4. Packing group

Not applicable.

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

#### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

#### SECTION 15: Regulatory information

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

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

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### SECTION 16: Other information

Classification procedures according to Regulation (EC) 1272/2008	Eye Irrit. 2 - H319, Skin Sens. 1 - H317: Calculation method.
Training advice	Read and follow manufacturer's recommendations.
Revision comments	Revised formulation.
Revision date	24/08/2016
Revision	4
Supersedes date	01/04/2014
SDS number	4832
Hazard statements in full	<ul> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H318 Causes serious eye damage.</li> <li>H319 Causes serious eye irritation.</li> <li>H335 May cause respiratory irritation.</li> <li>H372 Causes damage to organs through prolonged or repeated exposure if inhaled.</li> </ul>

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.