



# SHOTCRETE 513

## SAFETY DATA SHEET

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

### **1.1 Product Identifier**

Trade Name: SHOTCRETE 513 .

### **1.2 Relevant identified uses of the substance or mixtures and uses advised against**

Product use A fast setting dry sprayed shotcrete with Reg. 31 approval.

### **1.3 Details of the supplier of the safety data sheet**

Company: Natural Cement Distribution Ltd.,  
Fountain Parade,  
Mapplewell,  
Barnsley,  
S. Yorks,  
S75 6FW

Telephone: +44 (0)1226 381133

### **1.4 Emergency telephone contact:**

Emergency telephone number: 01226 381133 (Available during office hours)

Email Contact: enquiries@naturalcement.co.uk

## **SECTION 2: Hazards Identification**

### **2.1 Classification of the substance or mixture**

Type of product Mixture

#### **Classification (REGULATION (EC) No 1272/2008)**

Skin irritation, Category 2	H313: May be harmful in contact with skin..
Serious eye damage, Category 1	H319: Causes serious eye irritation.
Specific target organ toxicity – single Exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.

### **2.2 Label elements**

#### **Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms



Single word

Warning

Hazard Statements	: H313	May be harmful in contact with skin.
	: H319	Causes serious eye irritation.
	: H335	May cause respiratory irritation.
Precautionary statements	: P101	If medical advice is needed, have product container or label to hand.
	: P102	Keep out of reach of children.
	: P103	Read label before use.
	: P261	Avoid breathing dust.
	: P280	Wear protective gloves/eye protection/face protection.
	: P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
	: P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for Several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	: P402	Store in a dry place.
	: P501	Dispose of contents/container in accordance with local regulations.

### 2.3 Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria

## SECTION 3: Composition/Information on Ingredients

### 3.2 Mixtures

Chemical Name CAS-No. EC-No.	Classification	Concentration (%)
Natural Cement CAS-No. 65997-15-1 EC-No. 266-043-4	Skin Irrit.2: H315 Eye Dam.1: H319 STOT SE3. : H335	>= 40
Silica Sand CAS-No. 14808-60-7 EC No. 238-878-4		>= 50 - <= 100
Citric Acid CAS-No. 77-92-9 EC No.201-069-1 Registration No. 01-2119457026-42-0008	Eye Dam. 1 : H319	>=1

For the full text for all H-Statements mentioned in this section, see section 16.

## **SECTION 4: First Aid Measures**

### **4.1 Description of first aid measures**

General Information	Move out of dangerous area. Get medical attention if irritation persists. Show this safety data sheet to the doctor in attendance.
If inhaled	Move to fresh air. Consult a physician after significant exposure.
In case of skin contact	Take off contaminated clothing and shoes immediately Wash off with soap and plenty of water If symptoms persist call a physician.
In case of eye contact	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Keep eye wide open while rinsing.
If swallowed	Do not induce vomiting without medical advice. Rinse mouth with water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.

### **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.
Symptoms	Cough Respiratory disorder Excessive lachrymation Erythema Dermatitis
Risks	May be harmful in contact with skin. Causes serious eye damage. May cause respiratory irritation.

### **4.3 Indication of any immediate medical attention and special treatment needed**

Treatment	No specific recommendations
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## **Section 5: Firefighting measures**

### **5.1 Extinguishing media**

Suitable extinguishing media

**SHOTCRETE 513** is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

### **5.2 Special hazards arising from the substance or mixture**

Hazardous combustion products

No hazardous combustion products are known.

### **5.3 Advice for firefighters**

Special protective equipment  
For firefighters

Use protective equipment appropriate for surrounding materials

## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions

Use personal protective equipment.  
Avoid breathing dust  
Deny access to unprotected persons

### **6.2 Environmental precautions**

Environmental precautions

Try to prevent the material from entering drains or water courses.

### **6.3 Methods and materials for containment and cleaning up**

Methods for cleaning up

Pick up and arrange disposal without creating dust.  
Keep in suitable, closed containers for disposal.

### **6.4 Reference to other sections**

For personal protection see section 8. For waste disposal see section 13.

## **SECTION 7: HANDLING & STORAGE**

### **7.1 Precautions for safe handling**

Advice on safe handling

Avoid exceeding the given occupational exposure limits (see section 8). Do not get in eyes, on skin, or on clothing. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Follow standard hygiene measures when handling cement products.

Advice on protection against  
Fire & explosion

Avoid dust formation. Provide appropriate exhaust  
ventilation at places where dust is formed.

## 7.2 Conditions for safe storage, including any incompatibilities.

Storage precautions

Keep container tightly closed in a dry and well-  
ventilated place. To be stored out of the reach of  
children. Store in accordance with local  
regulations.

## 7.3 Specific end use(s)

Specific use(s)

The identified uses for this product are detailed in  
Section 1.2

## **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

Components with workplace control parameters

#### **SILICA SAND**

Long-term exposure limit (8hour TWA): WEL 0,1 mg/m<sup>3</sup>

#### **NATURAL CEMENT**

Long-term exposure limit (8hour TWA): WEL 10 mg/m<sup>3</sup> inhalable dust

Long-term exposure limit (8hour TWA): WEL 4 mg/m<sup>3</sup> respirable dust

#### **CITRIC ACID**

Long-term exposure limit (8hour TWA): TLV No exposure limit noted.

### 8.2 Exposure controls

Personal protective equipment



Eye protection

Safety glasses with side-shields  
Eye wash bottle with pure water

Hand protection

Chemical-resistant, impervious gloves complying  
with an approved standard must be worn at all  
times when handling chemical products.  
Contaminated gloves should be removed.

Skin and body protection

Protective clothing such as a dust impervious  
protective suit, longed sleeved working clothes,

long trousers & safety shoes acc. To EN ISO 20345.

Respiratory protection

Wear a respirator fitted with the following cartridge:  
Particulate filter, type 2. Ensure adequate ventilation. This applies in particular to the mixing/stirring area.

Environmental exposure controls

Try to prevent the material from entering drains or water courses.

## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

Appearance	: powder
Colour	: grey
Odour	: odourless
Odour Threshold	: No data available
Flash point	: Note: Not applicable
Ignition temperature	: No data available
Lower explosion limit (Vol%)	: No data available
Upper explosion limit (Vol%)	: No data available
Flammability (solid, gas)	: No data available
Oxidizing properties	: No data available
Auto-ignition temperature	: No data available
pH	: 12
Melting point/range / Freezing point	: No data available
Boiling point/boiling range	: No data available
Vapour pressure	: No data available
Density	: No data available
Water solubility	: Hardens in contact with water.
Partition coefficient: n-octanol/water	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: Note: Not applicable
Relative vapour density	: No data available
Evaporation rate	: No data available
Comments	: Information given is applicable to the product as supplied

## 9.2 Other Information

No data available

## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

### **10.2 Chemical stability**

The product is chemically stable

### **10.3 Possible of hazardous reactions**

Hazardous reactions	Stable under recommended storage conditions.
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### **10.4 Conditions to avoid**

Conditions to avoid	Water, moisture
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### **10.5 Incompatible materials**

Materials to avoid	No data available
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### **10.6 Hazardous decomposition products**

Hazardous decomposition products	No known hazardous decomposition products
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## **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects**

#### **Skin corrosion/irritation**

May be harmful in contact with skin.

#### **Inhalation**

Irritating to respiratory system. Inflammation of the nasal mucous membrane by expose to cement dust.

#### **Ingestion**

May cause irritation of mouth, throat and digestive tract

#### **Skin contact**

This product is strongly irritating. Prolonged contact may cause burns. May cause sensitisation by skin contact.

#### **Eye Contact**

Irritating and may injure eye tissue if not removed promptly.

#### **Acute & chronic health hazards**

Repeated and/or prolonged contact may lead to dermatitis.



## **SECTION 12: Ecological Information**

### **Ecotoxicity**

The product is not expected to be hazardous to the environment.

#### **12.1 Toxicity**

##### **Acute toxicity – fish**

Not determined.

The product is not expected to be hazardous to the environment. The addition of natural cement to water will not cause the pH to rise and will not be toxic to aquatic life.

### **12.2 Persistence and degradability**

##### **Persistence and degradability**

The product is not biodegradable

### **12.3 Bioaccumulative potential**

##### **Bioaccumulative potential**

The product is not bioaccumulating

### **12.4 Mobility in Soil**

##### **Mobility in Soil**

No data available

### **12.5 Results of PBT and cPvB assessment**

##### **Results of PBT and cPvB assessment**

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

### **12.6 Other adverse effects**

##### **Other adverse effects**

None known

## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

#### **General Information**

Do not empty into drains, sewers or water courses. The generation of waste should be avoided or minimized wherever possible.

#### **Disposal methods**

Empty containers or liners may be recycled. Dispose of waste to licensed disposal site in accordance with the requirements of the local Waste Disposal Authority. The fully cured material is not considered as hazardous waste.

## **SECTION 14: Transport information**

<b>General</b>	This product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA,ADR/RID)
<b>14.1 UN Number</b>	Not relevant
<b>14.2 UN proper shipping name</b>	Not relevant
<b>14.3 Transport hazard class(es)</b>	Not relevant
<b>14.4 Packing Group</b>	Not relevant
<b>14.5 Environmental hazards</b>	
<b>Environmentally hazardous substance/marine pollutant</b>	NO.
<b>14.6 Special precautions for use</b>	Not relevant
<b>14.7 Transport of bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not relevant

## **SECTION 15: Regulatory information**

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

#### **Prohibition/Restriction**

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	: Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: None of the components are listed (=> 0.1 %).
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable

REACH Information:	All substances contained in our Products are - preregistered or registered by our upstream suppliers, and/or - preregistered or registered by us, and/or - excluded from the regulation, and/or - exempted from the registration
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<b>National Guidelines</b>	The Control of substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended) The Chemicals (Hazard Information and Packaging for supply) Regulations 2009 (SI 2009 No. 716).
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<b>EU Legislation</b>	Commission Regulation (EU) No 453/210 of 20 May 2010 Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substance and mixtures (as amended)
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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).

## 15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16. Other information

Full text of Hazard Statements	: H313	May be harmful in contact with skin.
	: H319	Causes serious eye irritation.
	: H335	May cause respiratory irritation.
Full text of Precautionary statements	: P101	If medical advice is needed, have product container or label to hand.
	: P102	Keep out of reach of children.
	: P103	Read label before use.
	: P261	Avoid breathing dust.
	: P280	Wear protective gloves/eye protection/face protection.
	: P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
	: P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	: P402	Store in a dry place.
	: P501	Dispose of contents/container in accordance with local regulations.

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

Further advice and information regarding the handling of cement products is available from:-

**Natural Cement Distribution Ltd**  
**Fountain Parade, Mapplewell, Barnsley, South Yorkshire. S75 6FW**  
TEL: 01226 381133      Fax: 01226 381177      [www.naturalcement.co.uk](http://www.naturalcement.co.uk)



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