Natural Cement

SHOTCRETE 437F

SAFETY DATA SHEET

Ver. 240625

www.naturalcement.co.uk

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

1.1 Product Identifier

Trade Name: SHOTCRETE 437F .

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

Product use A fast setting dry sprayed fibre reinforced shotcrete.

1.3 Details of the supplier of the safety data sheet

Company: Natural Cement Distribution Ltd.,
10-11 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

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	**SHOTCRETE 437F** 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/m³

NATURAL CEMENT
Long-term exposure limit (8hour TWA): WEL 10 mg/m³ inhalable dust
Long-term exposure limit (8hour TWA): WEL 4 mg/m³ 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.

10.4 Conditions to avoid

Conditions to avoid	Water, moisture

10.5 Incompatible materials

Materials to avoid	No data available

10.6 Hazardous decomposition products

Hazardous decomposition products	No known hazardous decomposition products

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

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

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