

# Safety information

## FLY ASH

### Health and Safety Information (BS EN 450-1)

Tarmac Fly Ash is registered as a substance under the REACH Regulation (EC 1907/2006). Its REACH Registration number is 01-2119491179-27-0069. This safety data sheet provides information about the substance to enable appropriate risk management measures to be identified and applied. Because fly ash does not meet the requirements for classification as dangerous under the EU Dangerous Substances (67/548/EEC) Directive or the Classification, Labelling and Packaging of substances and mixtures (CLP) regulations (EC1272/2008), there is no requirement to provide a full Material Safety Data Sheet in accordance with Article 31 of REACH. No authorisation is required under Title VII of REACH and no restriction is imposed under Title VIII of REACH.

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

- Fly Ash N

##### 1.1 Identification of the substance

REACH Registration number: 01-2119491179-27-0069

CAS number 68131-74-8

EINECS number 931-322-8

##### 1.2 Use of the substance

Used as a cementitious component in eg, concrete, mortar and grout.

##### 1.3 Company identification

Tarmac Cement Ltd,  
T3 Trinity House, Bickenhill Lane,  
Birmingham, B37 7ES

**Technical helpdesk: +44 (0)345 812 6232**

**Email: [info-cement@tarmac.com](mailto:info-cement@tarmac.com)**

##### 1.4 Emergency telephone

Emergency telephone number available during office hours **(08:30 – 16:00):**

**Tel +44 (0)345 812 6232** (English Language only)

Emergency telephone number available outside office hours: **999**

#### SECTION 2: HAZARDS IDENTIFICATION

Fly ash is a fine powder, which can cause mechanical irritation to the eyes and respiration system.

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Fly ash is a vitrified mixture of silicates and aluminates, with small amounts of ferro-silicates, ferroaluminates, alkalis, calcium oxide, magnesium oxide, sulfates and chlorides.

#### SECTION 4: FIRST AID MEASURES

##### 4.1 Eye contact

Rinse the eyes with water with the eyelids open. Seek medical advice if irritation persists.

##### 4.2 Skin contact

Wash with soap and water.

##### 4.3 Ingestion

Rinse mouth and drink plenty of water.

##### 4.4 Inhalation

Move affected person into fresh air. Seek medical advice if irritation persists..

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## SECTION 5: FIRE-FIGHTING MEASURES

Fly ash is not flammable and will not facilitate combustion with other materials.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions

Refer to Section 8.

### 6.1 Cleaning up

If possible, recover the spillage in a dry state by vacuuming, to minimise generation of airborne dust. The product can be slurried by the addition of water.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Handling

Refer to Sections 2 and 8. Bags may have a small amount of fly ash on the outer surface and appropriate personal protective clothing should therefore be used.

### 7.2 Storage

Bulk fly ash should be stored in air-tight silos.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Exposure limit values

Tarmac Cement recommends applying a WEL of 10mg/m<sup>3</sup> total inhalable dust, 4mg/m<sup>3</sup> respirable dust. (as 8hr Time Weighted Average). See HSE Guidance Note EH40 for further information.

### 8.2 Exposure controls

#### 8.2.1 (a) Respiratory protection

Where practicable, dust exposure should be controlled by engineering methods. Otherwise, suitable respiratory protection should be worn to ensure that personal exposure is less than the WEL.

#### 8.2.1 (b) Hand protection

Waterproof gloves should be worn, particularly when handling any fly ash/water mixture, eg, concrete or mortar.

#### 8.2.1 (c) Eye protection

Dust-proof goggles should be worn wherever there is a risk of fly ash powder or any fly ash/water mixture entering the eye.

#### 8.2.1 (d) Skin protection

Protective clothing should be worn which ensures that fly ash or any fly ash/water mixture eg, concrete or mortar, does not come into contact with the skin. In some circumstances such as when laying concrete, waterproof trousers and Wellingtons may be necessary. Particular care should be taken to ensure that wet concrete does not enter the boots and persons do not kneel on the wet concrete so as to bring the wet concrete into contact with unprotected skin. Should wet mortar or wet concrete get inside boots, gloves or other protective clothing then this should be immediately removed and the skin thoroughly washed as well as the protective clothing/ footwear.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- Appearance: fine grey odourless powder with a particle size generally less than 50 micron
- pH of wet fly ash: 9-12
- Melting point: > 1,000°C
- Flash point: non-flammable
- Flammability: non-flammable
- Explosive properties: none
- Oxidising properties: none
- Water solubility: less than 2%
- Contains less than 1% crystalline silica
- Contains less than 2 ppm water-soluble chromium VI.

## SECTION 10: STABILITY AND REACTIVITY

Fly ash is low-reactivity, chemically stable and does not produce hazardous decomposition products.

## SECTION 11: TOXICOLOGICAL INFORMATION

The substance is not classified as dangerous. Details of the toxicological tests submitted as part of the REACH dossier for this substance are available on the European Chemicals Agency website.

## SECTION 12: ECOLOGICAL INFORMATION

In large quantities, the addition of fly ash to water will cause the pH to rise and may reduce oxygen availability, which might be toxic to aquatic life in some circumstances.

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## SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of empty bags or discarded fly ash to a place authorised to accept Builder's waste.

## SECTION 14: TRANSPORT INFORMATION

Fly ash is not covered by the international regulations on the transport of dangerous goods (IMDG, ADR/RID) and no classification is required.

The information given in this technical data sheet is based on our current knowledge and is intended to provide general notes on our products and their uses. Tarmac endeavour to ensure that the information given is accurate, but accept no liability for its use or its suitability for particular application because of the product being used by the third party without our supervision. Any existing intellectual property right must be observed.

### DISCLAIMER

This material safety data sheet (MSDS) is based on the legal provisions of the REACH Regulation (EC 1907/2006; article 31 and Annex II), as amended. Its contents are intended as a guide to the appropriate precautionary handling of the material. It is the responsibility of recipients of this MSDS to ensure that the information contained therein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. Information and instructions provided in this MSDS are based on the current state of scientific and technical knowledge at the date of issue indicated. It should not be construed as any guarantee of technical performance, suitability for particular applications, and does not establish a legally valid contractual relationship. This version of the MSDS supersedes all previous versions.

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