



**SAFETY DATA SHEET**  
 ACCORDING TO EC-REGULATIONS 91/155/EEC, 2006/1907/EC and 2006/121/EC

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

**Identification of the substance or preparation:** **FILTER ASH**

**Company Identification:** Francis Flower  
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**Use of Substance / Preparation:** Ash for aggregate

**2. HAZARDS IDENTIFICATION**

Considered to be of low hazard and not classifiable under the Chemicals (Hazard Information and Packaging) Regulations 1994. If allowed to dry out, the product may become dusty. Particle size <2.5mm

The product is collected in a bag filter following the combustion of coal and biofuels in two circulation fluidized bed boilers. It contains the residues combustion of these fuels together with sand and limestone (and products thereof) and used in the process.

- i minor contaminants, eg. Slag fragments, and agglomerated materials that could cause laceration to unprotected skin may be found.
- li odour associated with waste may be noticed, particularly when moving the material.

Therefore caution should be exercised when personnel come directly into contact with the arm. Controls and PPE are clarified in Section 8 below.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 CHEMICAL COMPOSITION**

INGREDIENT(S)		%W/W	CAS No	EC No	EC Classification
Aluminium Oxide	Al <sub>2</sub> O <sub>3</sub>	5-70	1344-28-1	215-691-6	
Calcium Oxide	CaO	<8%	1305-78-8	215-138-9	
Calcium Carbonate	CaCO <sub>3</sub>	30-50	471-34-1	207-439-9	
Ferric Oxide	Fe <sub>2</sub> O <sub>3</sub>	<10%	1309-37-1	215-168-2	
Silica Dioxide	SiO <sub>2</sub>	20-80%	7631-86-9	262-373-8	
Potassium Oxide	K <sub>2</sub> O	<3%	12136-45-7		

Sodium Oxide	Na <sub>2</sub> O	<3%	1313-59-3	215-208-9	
Magnesium Oxide	MgO	<3%	1309-48-4		
Manganese Oxide	Mn <sub>3</sub> O <sub>4</sub>	<3%	1317-35-7		

#### 4. FIRST AID MEASURES



- 4.1 Inhalation** Move to fresh air and rest. In severe cases, seek medical advice
- 4.2 Skin Contact** Remove contaminated clothing. Wash with soap and water
- 4.3 Eye Contact** Do not rub eyes. Wash with running water. If discomfort persists, seek medical attention
- 4.4 Ingestion** Wash mouth thoroughly with water. In severe cases, seek medical attention

#### 5. FIRE-FIGHTING MEASURES

- 5.1 Extinguishing Media** Foam, Water, CO<sub>2</sub>
- 5.2 Other** The product itself does not burn or support combustion

#### 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal Precautions** Avoid breathing dust, skin and eye contact
- 6.2 Environmental Exposure Controls** Contain and dispose of to a licensed waste disposal site.
- 6.3 Methods for cleaning up** Sweep up, avoid generating dust

#### 7. HANDLING AND STORAGE

- 7.1 HANDLING** Avoid water ingress as the ash will solidify and may become hot

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### OCCUPATIONAL EXPOSURE LIMITS

WEL: Workplace Exposure Limit (UK HSE EH40)



- 8.1 Respirators** Respiratory protection is considered to be required as the product is dry and gives rise to dust



- 8.2 Eye Protection** Light goggles should be worn to prevent eye contact



- 8.3 Skin** Gloves and boots are advised to be worn.  
 Cover broken skin with waterproof dressing



#### 8.4 Other

Full overalls with barrier cream are recommended.  
Workers are advised to maintain immunisation against tetanus  
Normal standard of industrial hygiene should be observed  
Wash with soap and water

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	Granular
<b>Colour</b>	Grey.
<b>Melting Point (°C)</b>	900-1600°C
<b>Solubility (Water)</b>	Insoluble.

### 10. STABILITY AND REACTIVITY

The product is stable and does not decompose at ambient temperatures.

### 11. TOXICOLOGICAL INFORMATION

<b>11.1 Ingestion</b>	Low oral toxicity.
<b>11.2 Inhalation</b>	Low acute toxicity. May cause irritation to the respiratory system.
<b>11.3 Skin Contact</b>	Abrasion may cause skin irritation
<b>11.4 Eye Contact</b>	Abrasion may cause eye irritation

### 12. ECOLOGICAL INFORMATION

<b>12.1 Environmental Fate and Distribution</b>	The product has low potential for bioaccumulation.
<b>12.2 Toxicity</b>	Low toxicity

### 13. DISPOSAL CONSIDERATIONS

<b>13.1 Regulatory information</b>	Dispose of to a licensed waste disposal site. <b>NOT</b> considered to be special waste
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### 14. TRANSPORT INFORMATION

#### International Transport Regulations

**NOT** classified as dangerous for supply under the Chemicals (Hazard Information and Packaging) Regulations 1994. Can be labelled as low hazard.



## 15. REGULATORY INFORMATION

**NO** specific EH40 occupational exposure limit have been set for this product. However we suggest that the following standards for dust be observed.

Long term exposure Limited (8 hours TWA reference period)

Nuisance Dust:	Total Inhalable Dust	10mg/m <sup>3</sup>
	Respirable Dust	5mg/m <sup>3</sup>

Health and Safety Executive EH40: Occupational exposure limited. (O.E.L.)

Health and Safety Executive EH44: Dust in the workplace: General Principles of Protection (1980)

## 16. OTHER INFORMATION