

Health & Safety Information

Sheet I: Pulverised Fuel Ash

This data sheet applies to:

- BS EN 450 Fly Ash.
- BS EN 13055 Ash
- Cenospheres.
- Furnace Bottom Ash (FBA).
- Conditioned Ash.

October 2008



Ash is virtually inert and non-toxic, but care is still required in its handling. This information sheet outlines some simple precautions you should follow.



Identification of substance

APPEARANCE

PFA is the by-product produced from the combustion of pulverised coal in electricity generation power station boilers. It is a fine grey powder with virtually no odour which is composed mainly of aluminosilicate amorphous spheres.

RECOMMENDED PROTECTIVE EQUIPMENT

If exposure is likely to exceed recommended exposure limits:

- **Respiratory Protection** – Suitable respiratory protection should be worn – equipment complying with EN 149.
- **Eye Protection** – Dust-proof goggles should be worn which comply with BS EN 166/167/168.
- **Hand & Skin Protection** – Overalls, gloves, boots and helmets should be worn.

TOXICOLOGICAL INFORMATION

Extensive clinical and experimental studies have been undertaken which show PFA to be non-toxic.

- **Skin Contact** – Current information suggests that there is no epidemiological evidence of a significant health risk associated with PFA.
- **Ingestion** – Unlikely to be a problem, no known adverse health effects on gastrointestinal system.



Health & Safety Sheet |

Exposure controls

OCCUPATIONAL EXPOSURE STANDARD (OES)

Occupational Exposure Standard (OES)		
Total inhalable dust	10mg/m ³	8hr T.W.A.
Respirable dust	4mg/m ³	8hr T.W.A.

These figures are considered to be safe in view of the low percentage of crystalline silica present in the respirable fraction.

FIRE FIGHTING MEASURES

No risks of fire or explosion.

Ecological information

AQUATIC TOXICITY RATING

LC50 aquatic toxicity rating not determined.

BIOLOGICAL OXYGEN DEMAND (BOD)

Not applicable.

DISPOSAL CONSIDERATIONS



Dispose of empty bags or surplus product in a place authorised to accept builder's waste. Keep out of the reach of children.

TRANSPORT INFORMATION

Classification for conveyance – not required.

Regulatory information

- Health & Safety at Work Act 1974.
- Pulverised Fuel Ash – criteria document for an occupational exposure limit. HSE 1992 (EH65/2) ISBN 0-11-8866391-6.
- HSE Guidance Note EH26 (Occupational) Skin Diseases Health & Safety Precautions (HMSO 1981).
- HSE Occupational Exposure Limits 1998 ISBN 0-7176-1474-3.
- Manual Handling Operations Regulations 1992.
- Any authorised manual on First Aid by St. Johns/St. Andrews/ Red Cross.

- Additional info HSE Info Line 001541.

First aid treatment

SKIN CONTACT

Wash the affected area thoroughly with soap and water. If skin irritation or pain continues, seek medical advice. Clothing contaminated by wet cement, concrete or mortar should be removed and washed thoroughly before re-use.

EYE CONTACT

Wash eyes with clean water for at least 15 minutes and seek medical advice.

INHALATION

If irritation occurs, move patient to fresh air. If nose or airways become inflamed, seek medical advice.

INGESTION

Do not induce vomiting. Wash out mouth with water and give patient plenty of water to drink.

To contact ScotAsh please telephone, fax or visit our website

T 01259 730110 **F** 01259 731055 **W** www.scotash.com

ScotAsh Limited, Longannet Power Station, Kincardine, FK10 4AA, Scotland

SCOTASH
A Lafarge ScottishPower Joint Venture