LYTAG®

- Safety Data Sheet -
Lightweight Aggregate
Lytag is manufactured from a by-product of bituminous coal fired power stations. The power station grinds coal into a very fine powder and uses this powder to fire the furnaces. Upon combustion of the coal a fine ash residue is left which takes the form of microscopic spheres. This ash is mixed with water and occasionally other powdered materials such as coal in small quantities and fired using recycled oil.

The predominant components are oxides of silicon (SiO2), aluminium (Al2O3) and iron (Fe2O3).

Inhalation
Respirable dust containing quartz from this product, like many other crushed products if inhaled over an extended time may constitute a health hazard.

Eyes
Dust generated from this product may result in irritation if it enters the eyes. Eye protection is recommended.

Skin
No particular hazard is associated with this product in contact with the skin. However good practice should be followed with regard to personal hygiene, particularly before eating or smoking etc.

First Aid Measures
Inhalation
No specific first aid measures can be applied, however if large quantities of dust are inhaled then remove the patient to fresh air.

Eyes
Irrigate eye(s) immediately with clean water. Seek medical attention.

Skin
No specific first aid measures are necessary.

Ingestion
There are no known adverse effects. Wash mouth out with water and give water to drink. Do not induce vomiting.
In all cases should exposure be excessive or symptoms develop seek medical attention.
5 **FIRE FIGHTING MEASURES**

No fire or explosion hazard, as the materials are non-combustible

6 **ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS**

Where dust is created, normal respiratory personal protective equipment may be necessary. Normally, however, release takes the form of dry aggregate spillage, which requires no precaution

**ENVIRONMENTAL PRECAUTIONS**

Lytag is an inert substance and therefore no specific precautions are required to protect the environment

**SPILLAGE/METHODS FOR CLEANING UP**

Dry sweeping should be avoided. Water spray or vacuum systems are recommended.

7 **ACCIDENTAL RELEASE MEASURES**

**HANDLING**

The carriage of Lytag is not subject to dangerous substance conveyance regulations. Vehicle and package labelling is not required. Vehicles should be sheeted during transportation. Good practice should be employed when handling the material to avoid excessive dust generation.

**STORAGE**

Storage should be arranged to avoid scattering of the aggregate as its spherical nature may create a skid hazard.

8 **EXPOSURE CONTROL/PERSONAL PROTECTION**

**EXPOSURE LIMIT VALUES**

There are no specific occupational exposure limits but exposure to airborne dust may cause irritation to the eyes and respiratory system. Personal exposure should be controlled to the minimum that is reasonably practical and in any case keeps total dust exposures below 10mg/m³ and respirable dust below 5mg/m³. Avoid ingestion.

**EXPOSURE CONTROLS**

Inhalation of any dust should be avoided. Suitable dust masks should be worn in enclosed spaces where adequate ventilation is not provided. For other general principles for protection refer to Guidance Note EH44; Dust general principles of protection; (HSE) ISBN 0 11 885595 6 from the Health and Safety Executive. No other special protective clothing is required but eye protection is recommended in all circumstances.

9 **PHYSICAL AND CHEMICAL PROPERTIES**

**GENERAL INFORMATION**

Sintered pulverised fuel ash in the form of hard spherical pellets, brown in colour.

Lytag fines is material less than 4mm in size formed during the production of granular Lytag.

Crushed Lytag is an angular product of varying sizes formed by breaking the spherical pellets into smaller particles.

The lower sizes of both products are of potential respirable dust, which could include quartz.

**SPECIFIC GRAVITY**

1.3-2.2

**SOLUBILITY IN WATER**

Negligible

**SMELL**

Odourless

**IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION**

Lytag has a very low solubility however, when mixed with water a pH in the range 7-10 may be expected in the solute.

**FURTHER INFORMATION**

For most situations Lytag can be considered to be inert.
STABILITY AND REACTIVITY
The high temperature manufacturing process of Lytag (~1400°C) creates a material that has a very high stability in most conditions including heat, cold, watercourses etc.

TOXICOLOGICAL INFORMATION
No known toxicological effects

ECOLOGICAL INFORMATION
No known toxicological effects

DISPOSAL CONSIDERATIONS
Lytag is chemically inert but should be disposed of in accordance with local legal requirements.

TRANSPORT INFORMATION
Not classified as dangerous under the Classification Packaging and Labelling of Dangerous Substances Regulations.

REGULATORY INFORMATION
RISK PHRASES  None
SAFETY PHRASES  None
LABEL FOR SUPPLY  Not Required
Health & Safety at Work Act 1974
Control of Substances Hazardous to Health (Regulations)
HSE Guidance Note EH44 – Dust General Principles of Protection
HSE Guidance Note EH40 – Occupational Exposure Limits
Manual Handling Regulations

OTHER INFORMATION
This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This MSDS was first issued in June 2003 and was revised from the original document ‘Health and Safety Product information’ to meet the requirements for a Material Safety Data Sheet conforming to the requirements of CoSHH.

To the best of our knowledge the information contained herein is accurate. Although certain hazards may be described we cannot predict that these are the only hazards that may exist in the workplace. This MSDS, therefore forms a component only of a risk assessment carried out by, or on behalf of the user

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