

SAFETY DATA SHEET

LYTAG AGGREGATES

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identification

Lyttag Lightweight Aggregate consists of a sintered pulverised fuel ash.

Identified uses of the substance or mixture

Used as a basic construction material and as a component of other materials such as concrete, mortar, blocks and screeds.

Company Identification

Lyttag Ltd
A division of Aggregate Industries UK Ltd
Bardon Hall
Copt Oak Road
Markfield
Leicestershire
LE67 9PJ
United Kingdom

Emergency Contact Details

Telephone: 01530 510066
(Mon-Fri, 8am to 5pm) ask for H&S Team
Email: health.safety.team@aggregate.com

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not classified as hazardous according to Regulation (EC) No. 1272/2008

This product gives the potential for generation of respirable dust during handling and use. Dust may contain respirable crystalline silica. Prolonged inhalation of respirable dust can constitute a long term health hazard such as lung fibrosis. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled. Repeated inhalation of excessive amounts of respirable silica may cause silicosis.

Labelling

The product does not need to be labelled in accordance with EC directives or respective national laws.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Lyttag Aggregates is a by-product of bituminous coal fired power stations. The fine ash produced from the process processed is sintered at temperatures of above 1200°C to produce an inert glassy rounded material containing.

The predominant chemical composition consists of oxides of silicon, aluminium and iron along with a small amount of salts and lime.

However, this material can contain low levels of respirable crystalline silica in the form of crystalline Silica Dioxide. Crystalline Silica has the following hazard information:

For the full text of the H-Statements mentioned in this Section, see Section 16.

	Respirable Crystalline Silica (Quartz)
CAS No	14808-60-7
EC No	238-878-4
Index No	[-]
Classification	STOT RE 2; H373i
Concentration	Variable dependent on source

4. FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

Inhalation

Remove to fresh air and allow person to rest. If recovery is not rapid obtain prompt medical attention.

Skin Contact

Remove any contaminated clothing. Wash with soap/ cleanser and rinse with plenty of water. If any irritation persists, obtain prompt medical attention.

Eye Contact

Do not rub eyes, as the material is abrasive and may scratch surface of the eye. Immediately and thoroughly irrigate with water. Seek medical attention if irritation persists.

Ingestion

Ingestion of significant quantities of aggregate that could cause harm is very unlikely. If material enters the mouth, do not induce vomiting. Give plenty of water to drink. Seek medical attention if feeling unwell.

5. FIREFIGHTING MEASURES

Suitable/Unsuitable extinguishing media

Material is not flammable or combustible. Use media suitable for other any other materials present that may be involved in a fire. There is no unsuitable extinguishing media.

Special hazards arising in a fire

None

Special Advice for fire fighters

None.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid breathing dusts and excessive physical contamination.

Environmental precautions

Entry into watercourses should be avoided so far as is possible.

Methods and materials for containment and cleaning up

Spray with water to prevent the generation of dust. Do not dry sweep residues, vacuum systems are recommended. Contain so as to avoid the generation of dust (i.e. cover or enclose).

7. HANDLING AND STORAGE

Precautions for safe handling

- Handle with care so as to prevent the generation of dust.
- Use exposure controls as detailed in Section 8.

Safe storage

- Its spherical nature can create a slip/skid hazard in the workplace.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

Components with occupational exposure limits

Component	WEL (8Hr TWA)
Total Inhalable Dust	10 mg/m ³
Respirable Dust	4 mg/m ³
Respirable Crystalline Silica	0.1 mg/m ³

It is recommended that occupational monitoring be completed to determine exposure.

EXPOSURE CONTROLS

Appropriate engineering controls

Use in well ventilated areas. Use mechanical ventilation in poorly ventilated areas.

Eye/Face Protection

Eye protection in the form of safety glasses and or goggles is required.

Hand Protection

Handle with gloves. Recommend use of impervious heavy duty gloves. Gloves should be removed and hands thoroughly washed before handling or eating any food or drink.

Skin Protection

Overalls/impervious clothing, selected according to the workplace conditions.

Respiratory Protection

Suitable dust masks should be worn in enclosed spaces where adequate ventilation is not provided. The Chemical Agents Directive shows a requirement for respirators as a means of control should use a particulate filter type P3 or equivalent.

9. PHYSICAL AND CHEMICAL PROPERTIES

General physical and chemical properties are as follows

Property	
Appearance	Hard spherical pellets brown in colour
Odour	None
pH	9.4
Boiling Point / Range	Not determined
Melting Point / Range	Not determined
Flash Point	Not applicable
Flammability	Not applicable
Auto Flammability	Not applicable
Explosive Properties	Not applicable
Oxidizing Properties	Not applicable
Vapour Pressure	Not applicable
Relative Density	1.3 to 2.2
Water Solubility	Negligible, may result in an alkali solute pH 7-9
Fat Solubility	Not determined

10. STABILITY AND REACTIVITY

Reactivity and Chemical stability

Stable at normal temperatures and under recommended storage conditions.

Conditions to avoid

None.

Incompatible materials

None.

Hazardous decomposition products

No hazardous decomposition products when stored and handled correctly.

11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity

None.

Eye Damage

Excessive contact with dust or fine particles may cause mechanical irritation

Skin corrosion/irritation

Excessive contact with dust or fine particles may cause mechanical irritation

Respiratory sensitisation

None known.

Specific target organ toxicity - single exposure

None.

Specific target organ toxicity - repeated exposure

Prolonged exposure of Respirable Crystalline Silica fraction by inhalation may lead to silicosis in lungs.

Carcinogenicity

IARC classified respirable crystalline silica as a Group 1 carcinogen, therefore long term exposure may cause cancer.

Ingestion

Not likely to cause long term problems.

Germ cell mutagenicity

None

Reproductive toxicity

None

Aspiration hazard

Not applicable

Signs and Symptoms of Exposure

Contact with eyes can cause mild transient eye irritation. Contact with skin may cause mechanical skin irritation and possible dermatitis. Chronic exposure by inhalation may cause cough, breathlessness and lung fibrosis.

12. ECOLOGICAL INFORMATION

Environmental Assessment

When used and disposed of as intended, no adverse environmental effects are foreseen. Lytag is an inert material which does not pose a significant ecological hazard.

Mobility

Not relevant.

Persistence and Degradability

Lytag aggregates are resistant to degradation and will persist in the environment.

Ecotoxicity

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

Bioaccumulative potential

Not relevant.

Results of PBT and vPvB assessment

Will not meet PBT or vPvB criteria..

13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

Product

Classified as inert waste and can be disposed of as normal industrial waste in accordance with waste regulation. It is recommended that it be disposed of via recycling or reuse.

Contaminated packaging

Dispose of as industrial waste.

14. TRANSPORT INFORMATION

Special Carriage Information

None. This product is **NOT** classified as dangerous for transport.

Open bulk vehicles used to carry the product should be sheeted to avoid the generation of dust.

15. REGULATORY INFORMATION

Classification

Not classified as dangerous. However, consideration of the following Hazard & Precautionary Statements is recommended:

Text of H-code(s) and R-phrases mentioned in Section 3

H373i May cause damage to organs through prolonged or repeated exposure by inhalation.

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture

Health & Safety at Work etc. Act 1974

Control of Substances Hazardous to Health Regulations

2002 (as amended)

Chemicals (Hazard Information and Packaging for Supply) Regulations 2009

Classification, Labelling and Packaging of Substances and Mixtures Regulations 2008 (as amended)

EH40/2005 Workplace Exposure Limits (as amended)

Environmental Protection Act 1990

Hazardous Waste Regulations 2005 (as amended)

Chemical Safety Assessment

No data available.

16. OTHER INFORMATION

Training and Advice

Wear and use appropriate PPE

Recommended restrictions on use

Use in accordance with manufacturer's technical instructions.

Further Information

Contact the Aggregate Industries Health & Safety Team.

Key Data used to compile data sheet

EH40/2005 Workplace Exposure Limits (as amended)

HSE Crystalline Silica EH59