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SAFETY DATA SHEET

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1 Identification of Substance

NATURAL AGGREGATES

2 Compositions / Information on Physical and Chemical Characteristics

Crushed rock and sand and gravel aggregates. Natural Aggregates are produced from naturally occurring rock, sand and gravel deposits and consist of combinations of various minerals including quartz. Natural aggregates are sourced from a wide variety of rock types typically including Granite, Quartz, Basalt, Gritstone, Limestone, Sandstone and Marble. The mineral composition of these products can vary considerably.

3 Hazards Identification

Under the REACH regulations Article 31 it is the responsibility of the producer of a Substance / mixture to provide a safety data sheet if it is considered dangerous. These products are not classified as dangerous. It is still necessary to comply with COSHH requirements, which this Safety Data sheet aims to achieve. When handling, use mechanical lifting equipment whenever possible, if not use good manual handling techniques. Ensure care is taken if opening bags if using a knife – recommend using a safety knife. Wear sturdy footwear. These products are not classified as dangerous. It is still necessary to assess risks using these products which this safety data sheet aims to achieve.

These products are NOT classified as hazardous in accordance with the CHIP regulations (SI 3247 : 1994). Ensure high standards of personal hygiene are observed. If inhaled in excessive quantities over a prolonged period or extended period, respirable dust can constitute a long term health hazard. Dusts containing Respirable Crystalline Silica (Quartz) present a greater hazard. Some sand aggregates are unsuitable for sand blasting operations as they may break down, producing respirable dust containing Quartz.

4 First Aid Measures

Summary of First Aid Procedures

Inhalation

Immediately remove to fresh air. If breathing is stopped or irregular, apply artificial respiration and seek medical attention.

Skin Contact

Wash with water. Prolonged contact may cause irritation.

Eye Contact

Immediately and thoroughly irrigate with water. The material is abrasive and may scratch the surface of the eye. If pain persists seek medical attention.

Ingestion

Remove to fresh air and give water to drink. Seek medical advice.

5 Fire Fighting Measures

These products do not present a fire or explosion hazard and are non-combustible

6 Accidental Release Measures

Personal Precautions

Avoid breathing in dust.

Environmental Precautions

Entry into watercourses should be avoided.

Methods for Cleaning

If possible avoid dry sweeping which generates dust. Vacuum dust where practical or use water sprays to suppress dust. Store in suitable containers for safe disposal.

7 Handling and Storage

Handling

The product should be handled to minimise the creation of airborne dust.

Appropriate Personal Protective Equipment (PPE) should be worn whilst handling product.

Should the material used require moving from the pallet it is supplied on then care should be taken to prevent over handling that will cause a higher fines content within the bag caused by the attrition of the aggregates within the bag during the handling process. Special care should be taken when transferring the product from the pallet to the working platform or and site storage facility to ensure that the bags are not walked on or climbed on at any point prior to their usage. When handling products regard should be given to the risks outlined in 'Manual Handling Operations Regulations 1992 (amended 2002)

Storage

Bagged products should be palletised and kept secure. Aggregates containing sub 3mm material and stored in the open should be conditioned with water to minimise dust emissions.

8 Exposure Controls / Personal Protection

Take Measures to Prevent

Inhalation of dust from aggregates should be avoided.

Exposure Control Limits / Source

Total Inhalable Nuisance Dust: W.E.L. 10mg/m³
T.W.A.

Total Respirable Nuisance Dust: W.E.L. 4mg/m³
T.W.A.

Total Respirable Quartz: W.E.L. 0.3mg/m³ T.W.A

Total Crystalline Silica SiO₂ W.E.L. 0.1mg/m³
T.W.A.

W.E.L. = Workplace Exposure Limit

T.W.A. = Time Weighted Average (8 hour)

Respiratory Protection

Suitable dust masks should be worn in enclosed spaces where the handling or further crushing of dry aggregates are taking place and where adequate ventilation is not provided.

Hand Protection

Gloves.

Eye Protection

Eye protection to BS EN 1664-4 should be used to prevent dust/aggregate entering the eyes

Skin Protection

Overalls and gloves should be used to prevent contamination of the skin.

9 Physical and Chemical Properties

Appearance Granular solid

Odour None

pH Various

Boiling Point / Range Not determined

Melting Point / Range Not determined

Flash Point Not applicable

Flammability Not applicable

10 Stability and Reactivity

Conditions to Avoid

None.

Materials to Avoid

Acids (for aggregates containing CaCO₃ & MgCO₃)

Hazardous Decomposition Products

Limestone aggregates may react with acid groundwater to release carbon dioxide gas, which may build up in confined spaces to hazardous concentrations.

11 Toxicological Information

If inhaled in excessive quantities over a prolonged period or extended period, respirable dust can constitute a long term health hazard.

12 Ecological Information

Environmental Assessment

When used and disposed of as intended, no adverse environmental effects are foreseen. Aggregates are naturally occurring minerals. Do not discharge this product into the natural environment. Products may be toxic to aquatic life forms if spilled into rivers, ponds, watercourses etc.

Mobility

Aggregates are non-volatile materials that will sink in water and form a solid layer on the surface of the ground.

Persistence and Degradability

Aggregates are resistant to degradation and will persist in the environment. Products are not bio-degradable.

13 Disposal Considerations*Likely Residues / Waste Product*

None.

Safe Handling of Residues / Waste Product

Aggregates are inert but should be disposed of in accordance with local and national legal requirements. See the Environmental Protection Act 1990 "Duty of Care". An approved solid waste disposal or landfill site may be used. Do not burn, shrink wrap, bags or any other packaging materials.

Auto Flammability Not applicable
Explosive Properties Not applicable
Oxidising Properties Not determined
Vapour Pressure Not applicable
Relative Density Above 2.0
Water Solubility Dependent on rock type
Fat Solubility Not determined

14 Transport Information

Special Carriage Requirements

None - open vehicles to be sheeted to avoid dust nuisance. Hauliers should observe Healthy and Safety and Road Regulation guidelines/laws regarding safe carriage of goods

15 Regulatory Information

This product is NOT classified as dangerous for transport.

16 Other Information*Training Advice*

Wear and use of PPE. Account should be taken of the Manual Handling Regulations and care should be taken if lifting by hand.

Recommended Uses and Applications

Industrial, landscaping and construction applications.

Further Information

Lloyds Spar Quarries, Cefn Mine, Cilcain, Mold, Flintshire, CH7 5HR

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If you have purchased this product for supply to a third party for use at work, it is your duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. If you are an employer, it is your duty to tell your employees and others who may be affected of any hazards described in this sheet and any of the precautions which should be taken.

Sources of key data used to complete data sheet.

PPE Regulations 1992
COSHH Regulations 2002/2004 (as amended)
EH40 2005 Workplace Exposure limits
(supplementary amended 01 October 2006)
Manual Handling Regulations 1992 (as amended)
Any authorised manual on First Aid by St. Johns/St. Andrews/Red Cross
Legal Notice

The information contained in this Safety Data Sheet was considered the best available at the date of issue. However no warranty is made or implied that the information is accurate or complete. It is the user's obligation to evaluate and use this product safely and to comply with all the applicable laws and regulations.