

SAFETY DATA SHEET

Issue Date: October 2019

1. Identification of Substances & Company

NATURAL AGGREGATES

Company:

Marchington Stone Limited
Buxton Road
High Lane
Stockport
SK6 8DX

Telephone: 01663 765000

Contact Email: sales@marchington.net

Hours of operation: 07:30 – 18:00 Weekdays, 08:00- 10:00 Saturday

2. Composition/Information on Ingredients

Produced from naturally occurring rock or sand and gravel mineral deposits. The mineral composition and characteristics of the aggregate will depend on the type of mineral deposit from which the aggregate is produced. In general, quartzite, sandstone, sand and gravel will have the highest levels of quartz.

Hazardous Ingredients				
Substance Name	EC No	%	DSD Classification	CLP Classification
Crystalline Silica	238-878-4	Variable	Xn:R48/20	H372

3. Hazards Identification

These products are NOT classified as hazardous in accordance with Directive 67/548/EEC or Regulation EC1272/2008.

Processing operations of natural aggregates including crushing, drilling, cutting, loading and unloading including handling and use of natural aggregates or if supplied as a fine material may release respirable dust.

Page: 1	Date Written: July 2006	Doc Ref: Natural Aggregates Safety Data Sheet
	Date Amended: October 2019	Issue: 2

SAFETY DATA SHEET

Issue Date: October 2019

Dusts containing Respirable Crystalline Silica (quartz) present a greater hazard.

If inhaled in excessive quantities over a prolonged or extended period, respirable dust can constitute a long term health hazard. Respirable crystalline silica has been associated with the lung disease silicosis.

Some sand aggregates are unsuitable for sandblasting operations as they break down, producing respirable dust containing quartz.

The quartz content of the product will vary, and it related to the type of mineral deposit from which the aggregate is produced. Please contact us if you require further information on this.

4. First Aid Measures

Inhalation

Immediately remove to fresh air and allow to rest. If recovery is not rapid, seek medical attention.

Skin Contact

Wash with water and remove any contaminated clothing. Prolonged contact may cause irritation. Seek medical attention if symptoms develop or persist.

Eye Contact

Immediately and thoroughly irrigate with clean water or eye wash solution. Do not rub eyes as the material is abrasive and may scratch the surface of the eye. Seek medical attention if symptoms develop or persist.

Ingestion

Remove to fresh air, rinse mouth and give water to drink. Seek medical advice or attention if symptoms develop.

5. Fire Fighting Measures

Suitable Extinguishing Media/Unsuitable Extinguishing Media

Natural aggregates are non-flammable and are not combustible. Use extinguisher suitable for the surrounding fire.

Special Exposure Hazards in Fire

None

Page: 2	Date Written: July 2006	Doc Ref: Natural Aggregates Safety Data Sheet
	Date Amended: October 2019	Issue: 2

SAFETY DATA SHEET

Issue Date: October 2019

Special Protective Equipment for Fire Fighters

None

6. Accidental Release Measures

Personal Precautions

Avoid breathing in dust. Keep dust out of eyes. See Section 7 for handling and section 8 for exposure controls/personal protection.

Environmental Precautions

Natural aggregates are inert. Entry into watercourses and drains should be avoided for dust and fine particles. Discharge of dust on vegetation should be avoided and controlled at source.

Methods for Cleaning

Spray with water to prevent the generation of dust. Avoid dry sweeping which creates dust. Use a vacuum where practical.

7. Handling and Storage

Handling

The product should be handled to minimise the creation of airborne dust. Conveying systems should be fitted with covers to reduce wind whipping. Fine materials should be conveyed in an enclosed system. Water sprays and/or local exhaust ventilation and filtration should be used as required to minimise generation of dust.

Manual handling of the product should be avoided where possible. If manual handling is necessary, full account should be taken of Manual Handling Regulations.

Storage

The product should be stored to minimise the creation of airborne dust. Very fine dry products in bulk should be stored in enclosed silos. Bulk aggregate containing fine material (<3mm) should not be stored in the open unless it is conditioned with water. Stockpiles should be sited to avoid wind-whipping where possible. Storage bays should be fitted with 3 sides and the aggregates stored below the level of the sides to avoid wind-whipping.

Page: 3	Date Written: July 2006	Doc Ref: Natural Aggregates Safety Data Sheet
	Date Amended: October 2019	Issue: 2

SAFETY DATA SHEET

Issue Date: October 2019

8. Exposure Controls/Personal Protection

Take Measures to Prevent

Inhalation of dust from aggregates should be avoided

Exposure Control Limits/Source				
Total Dust	W.E.L	10mg/m ³	8 hrs	T.W.A.
Respirable Dust	W.E.L	4mg/m ³	8 hrs	T.W.A.
Respirable Quartz – (Crystalline Silica SiO ₂)	W.E.L	0.1mg/m ³	8 hrs	T.W.A.

W.E.L = Workplace Exposure Limit

T.W.A = Time Weighted Average

Control measures:

Dusts should be controlled by containment, suppression and extraction/filtration where possible. Regular monitoring should be undertaken to identify where people may be exposed to respirable dust so that further measures/controls can be implemented to reduce exposure.

Respiratory Protection

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hand Protection

Gloves to prevent abrasion or irritation. Wear waterproof gloves if handling wet product.

Eye Protection

Goggles or protective safety glasses should be worn to prevent dust entering the eyes if a risk assessment indicates this is necessary.

Skin Protection

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

Hygiene Measures

Wash hands thoroughly before handling or eating any food and drink.

Page: 4	Date Written: July 2006	Doc Ref: Natural Aggregates Safety Data Sheet
	Date Amended: October 2019	Issue: 2

SAFETY DATA SHEET

Issue Date: October 2019

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
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

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

Inhalation

If inhaled in excessive quantities over a prolonged or extended period, respirable dust from natural aggregates can lead to respiratory system symptoms, damage and disease. Respirable crystalline silica has been associated with the lung disease silicosis.

Skin Contact

Prolonged contact with skin may cause irritation and dryness which may lead to dermatitis.

Page: 5	Date Written: July 2006	Doc Ref: Natural Aggregates Safety Data Sheet
	Date Amended: October 2019	Issue: 2

SAFETY DATA SHEET

Issue Date: October 2019

Eye Contact

Particles of grit or dust from natural aggregates may irritate and scratch eyes.

Ingestion

Not likely to cause long term problems.

Carcinogenicity

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

12. Ecological Information

Environmental Assessment

When used and disposed of as intended, no adverse environmental effects are foreseen. Aggregates are naturally occurring, inert materials and do not pose a significant ecological hazard.

Mobility

Aggregates are non-volatile materials that will sink in water and form a solid layer on the surface of the ground. Dust may become airborne, leading to deposition on vegetation.

Persistence and Degradability

Aggregates are resistant to degradation and will persist in the environment.

Ecotoxicity

Not expected to be toxic to aquatic organisms.

Bioaccumulative potential

Not applicable

Results of PBT and vPvB assessment

Will not meet PBT or vPvB criteria.

13. Disposable Consideration

Safe Handling of Residues/Waste Product

Aggregates are inert but should be disposed of in accordance with local and national legal requirements. Natural aggregates can be readily reused or recycled.

Page: 6	Date Written: July 2006	Doc Ref: Natural Aggregates Safety Data Sheet
	Date Amended: October 2019	Issue: 2

SAFETY DATA SHEET

Issue Date: October 2019

14. Transport Information

Special Carriage Requirements

None – not classified as dangerous for transport. Open vehicles should be sheeted or conditioned with water to avoid dust nuisance.

15. Regulatory Information

Not classified as dangerous. However, consideration of the following risk and safety phrases is recommended:

67/548/EEC

Risk Phrases:

R20: Harmful by inhalation (if silica is present)

R36: Irritating to eyes

R37: Irritating to respiratory system

R48: Danger of serious damage to health by prolonged exposure (if silica is present)

Safety Phrases:

S 36 - Wear suitable protective clothing

S 37 - Wear suitable gloves

S 38 - In case of insufficient ventilation wear suitable respiratory equipment

S 39 - Wear eye/face protection

EC1272/2008

Hazard Statements:

H317 - May cause skin irritation

H335 - May cause respiratory irritation

H372 - Causes damage to organs through prolonged or repeated exposure (relates possible lung damage if exposed to respirable silica)

Precautionary Statements:

P261 - Avoid breathing dust

P281 - Use personal protective equipment as required (See Section 8)

16. Other Information

Training Advice

Wear and use of appropriate PPE.

Page: 7	Date Written: July 2006	Doc Ref: Natural Aggregates Safety Data Sheet
	Date Amended: October 2019	Issue: 2

SAFETY DATA SHEET

Issue Date: October 2019

Recommended Uses and Applications
Industrial and construction applications.

Further Information

Marchington Stone Limited
Telephone 01663 765000

Key Data Used to Compile Data Sheet
HSE Guidance Note EH40/2007
PPE Regulations 1992
COSHH Regulations 2002
Environmental Protection Act 1990
HSE Crystalline Silica EH59
Dangerous Substances Directive (DSD) 67/548/EEC
Classification, Labelling and Packaging Regulations (CLP) EC1272/2008

Prepared in accordance with Annex II of the REACH Regulations (EC) 1907/2006

Legal Notice

The information in this Safety Data Sheet was believed to be correct at the time of issue. However, no warranty is made or implied as to the accuracy or completeness of this information.

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.

This Safety Data Sheet does not constitute the user's own assessment of workplace risk, and it is the user's sole responsibility to take all necessary precautions when using this product.

Further copies of this Safety Data Sheet may be obtained from Marchington Stone Limited.

Page: 8	Date Written: July 2006	Doc Ref: Natural Aggregates Safety Data Sheet
	Date Amended: October 2019	Issue: 2