Section 1: Identification of the Substance / Mixture and of the Company / Undertaking

1.1 Product Identifier	
Substance Name	Slate
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Identified Uses	Manufacture of products to include Roofing Slate, Crushed Slate products, Architectural and Landscaping products.
Uses Advised Against	No specific uses advised against are identified.
1.3 Details of the supplier of the Safety Data Sheet	
Supplier	Breedon Group Welsh Slate Penrhyn Quarry Bethesda Gwynedd LL57 4YG Tel: +44 (0)1248 600656 enquiries@welshslate.com
1.4 Emergency Telephone Number	
Emergency Telephone	+44 (0)1332694010
Opening Hours	Mon – Fri, 9am to 5pm GMT
Other Comments	Phone service language – English

Section 2: Hazards Identification

2.1 Classification of the Substance or Mixture	
General	Slate is not classified under CLP but RCS / Quartz which it contains is and during handling in certain forms and from its processing where the respirable element is released then RCS (fine form) can present a greater hazard. Quartz (SiO_2) which is present in RCS and classified under the CLP therefore information relating to Quartz specifically is detailed below due to varying amounts of this mineral present in slate. **Classified at STOT RE 1.**
2.2 Label Elements	
Hazard Pictogram	
Signal Word	**DANGER**
Hazard Statements	H372 – Causes Damage to Lung through prolonged or repeated exposure by inhalation.
Precautionary Phrases	P260 – Do not breather dust P285 – In case of insufficient ventilation wear suitable respiratory protection P501 – Dispose of in accordance with local regulation

Telephone: +44 (0) 1248 600 656
Website: www.welshslate.com e-mail: enquiries@welshslate.com
Penrhyn Quarry, Bethesda, Bangor, Gwynedd, LL57 4YG United Kingdom

2.3 Other Hazards	
	This substance does not present any other hazards.

Section 3: Composition / Information on Ingredients

3.1 Substance	
General	Slate contains Respirable Crystalline Silica of varying quantities dependent on where the slate mineral deposit is produced. Quartz (Si02) as previously mentioned is present but amounts can vary.
Product Name	Quartz (Si02)
Reach Reg No	N/A
CAS Number	14808-60-7
EC Number	238-455-4
3.2 Mixtures	
	Not Applicable

Section 4: First Aid Measures

4.1 Description of First Aid Measures	
General	Seek medical attention if feeling unwell. Refer to this SDS for guidance.
Inhalation	Remove patient to fresh air and seek medical advice.
Skin Contact	Wash skin with soap and water. For cuts and abrasions; clean with water and apply sterile dressing if required.
Eye Contact	Wash out with clean water and seek medical attention if required.
Following Ingestion	Wash out mouth with clean water and give patient water to drink.
First Aider Self Protection	First Aiders should wear appropriate PPE, where risk of airborne particles then RPE & Eye protection to be worn.
4.2 Most Important Symptoms and Effects	
Inhalation	If any respirable dust produced whilst working with slate is inhaled in excessive quantities over a long period (years), it may create a long-term health hazard.
Skin Contact	May cause skin irritation e.g. redness, eczema. Can cause cuts and abrasions.
Contact with Eyes	May cause eye irritation.

Telephone: +44 (0) 1248 600 656
Website: www.welshslate.com e-mail: enquiries@welshslate.com
Penrhyn Quarry, Bethesda, Bangor, Gwynedd, LL57 4YG United Kingdom

Section 5: Firefighting Measures

5.1 Extinguishing Media	
Suitable Extinguishing Media	Not applicable
Unsuitable Extinguishing Media	Not applicable
5.2 Special Hazards arising from the substance or mixture	
Specific Hazards	None known
Hazardous Combustion Products	None known
5.3 Advice for Firefighters	
General	Prevent run off water from entering watercourses by controlling.

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures	
Personal Precautions	Use appropriate protective clothing (See section 8).
6.2 Environmental Precautions	
Environmental Precautions	Do not let slate fines enter the local water course, any run off should be contained.
6.3 Method for Clearing Up	
Method of cleaning up on ground	Dowse with water to reduce respirable dust and ensure environmental precautions are implemented.
Method of cleaning up in water	Inform the appropriate regulatory and local authority.
6.4 Reference to other Sections	
Reference to other Sections	See Sections 8 and 13 for additional information.

Section 7: Handling and Storage

7.1 Precautions for Safe Handling	
Usage Precautions	Follow product manufacturers instructions and wear Protective clothing as described in section 8 depending on product type. In crushed form contain where possible, minimize airborne dust.
Advice on General Occupational Hygiene	Wash off any reside on skin. Remove contaminated clothing and wash. Do not drink or eat when using this product and change work clothing before leaving workplace.

Telephone: +44 (0) 1248 600 656
Website: www.welshslate.com e-mail: enquiries@welshslate.com
Penrhyn Quarry, Bethesda, Bangor, Gwynedd, LL57 4YG United Kingdom

7.2 Conditions for Safe Storage	
Storage Precautions	In crushed form then prevent airborne dust by containment or dust suppression.
Storage Class	Unspecified storage.
7.3 Specific End Use(s)	
Specific End Use(s)	Products listed in section 1 or as component material.

Section 8: Exposure Controls / Personal Protection

8.1 Occupational Exposure Limits	
Occupational Exposure Limits	Respirable crystalline silica (RCS) has a maximum exposure limit of 0.1mg/m^3 per 8-hour Time Weighted Average. All dusts have a Respirable Occupational Exposure Standard of 4mg/m^3 and an Inhalable Occupational Exposure Standard of 10mg/m^3 per 8-hour Time Weighted Average.
8.2 Exposure Controls	
Protective Equipment	
Engineering Measures to Reduce Exposure	When working slate such as by dry drilling, cutting etc. the working area and methods should be designed to incorporate a Local Exhaust Ventilation (LEV) system.
Eye Protection	Eye protection should be dust tight type to BS EN 166 with crushed slate products containing fines.
Skin – Hand Protection	Protective gloves should be worn. Cut proof Level 5 when handling sharp slate pieces.
Skin – Other	Suitable protective clothing to prevent contact with skin.
Respiratory Protection	Respiratory protection should be suitable for hazardous dusts in accordance with HSE publication HSG 53.
Environmental Exposure Controls	See Section 6

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties	
State	Solid
Colour	Blue, Grey, Plum, Green as natural Product. Can be coated in smaller particulate size products
Odour	None
Odour threshold	Not relevant

Telephone: +44 (0) 1248 600 656
Website: www.welshslate.com e-mail: enquiries@welshslate.com
Penrhyn Quarry, Bethesda, Bangor, Gwynedd, LL57 4YG United Kingdom

Flash Point	Not relevant
Flammability	Not relevant
Evaporation Rate	Not relevant
Evaporation Factor	Not relevant
Vapour Pressure	Not relevant
Vapour Density	Not relevant
Ph	8.7
Boiling Point (°C)	Not applicable
Melting / Decomposition Temp (°C)	Not applicable
Density (kg/m³)	2860kg/m³
Solubility in Water (weight-%)	Non-soluble
Solubility in Organic Solvents	Non-soluble
Auto ignition Temperature	No information available
Decomposition Temperature	No information available
Explosive Properties	No information available

SECTION 10: Stability and reactivity

10.1 Reactivity	
Reactivity	Inert, Not Reactive
10.2 Chemical Stability	
Stability	Stable under all known conditions.
10.3 Possibility of Hazardous Reactions	
Possibility of Hazardous	No potentially hazardous reactions known.
10.4 Conditions to Avoid	
Conditions to Avoid	None known
10.5 Incompatible Materials	
Materials to avoid	No known materials to avoid.
10.6 Hazardous Decomposition Products	
Hazardous Decomposition Products	None known

Telephone: +44 (0) 1248 600 656
Website: www.welshslate.com e-mail: enquiries@welshslate.com
Penrhyn Quarry, Bethesda, Bangor, Gwynedd, LL57 4YG United Kingdom

SECTION 11: Toxicological Information

Acute Toxicity – Oral Notes (oral LD_{50})	Based on available data the classification criteria are not met.
Acute Toxicity – Dermal Notes (dermal LD_{50})	Based on available data the classification criteria are not met.
Acute Toxicity – Inhalation Notes (inhalation LC_{50})	Based on available data the classification criteria are not met.
Skin Corrosion / Irritation	Based on available data the classification criteria are not met.
Serious Eye Damage / Irritation	Not irritating to Eye (OECD TG 405).
Respiratory Sensitisation	Based on available data the classification criteria are not met.
Skin Sensitisation	Based on available data the classification criteria are not met.
Germ Cell Mutagenicity Genotoxicity – in vitro.	Respirable Quartz unable to increased HPRT mutations in rat lung epithelial cells in vitro.
Carcinogenicity	Lung Cancer excess risk is demonstrated only under high occupational exposures to RCS. The lung cancer excess risk is restricted to subjects who contracted Silicosis.
IARC Carcinogenicity	Studies concluded RCS inhaled can cause cancer – Carcinogen Cat 1.
Reproductive Toxicity – Fertility	Based on available data the classification criteria are not met.
Reproductive Toxicity – Development	Based on available data the classification criteria are not met.
Specific Target Organ Toxicity – Single Exposure	
STOT – Single Exposure	Studies available, inconclusive.
Specific Target Organ Toxicity – Repeated Exposure	
STOT – Repeated Exposure	Product contains Quartz (fine fraction) and is classified as STOT RE 1 .
Aspiration Hazard	Not relevant.
General Information	Prolonged exposure to Respirable Crystalline Silica (RCS) slate dust may cause silicosis. Long-term exposure to high levels of RCS dust can also lead to an increased risk of developing lung cancer. If the dust given off from working with slate is fine enough to breathe into the lungs through the nose and mouth this is termed “respirable”. Once it is breathed in, RCS dust can be retained in the lungs for many years.
Inhalation	No specific symptoms known.
Ingestion	No specific symptoms known.
Skin Contact	Prolonged contact may cause dryness of the skin.
Eye Contact	No specific symptoms known.
Route of Exposure	Inhalation, Ingestion.
Target Organs	Lungs

Telephone: +44 (0) 1248 600 656
Website: www.welshslate.com e-mail: enquiries@welshslate.com
Penrhyn Quarry, Bethesda, Bangor, Gwynedd, LL57 4YG United Kingdom

SECTION 12: Ecological Information

12.1 Toxicity	
Toxicity	Based on available data the classification criteria are not met.
12.2 Persistence and Degradability	
Persistence and Degradability	The degradability of the product is not known.
12.3 Bioaccumulative Potential	
Bioaccumulative Potential	No data available on bioaccumulation.
Partition Coefficient	Not available
12.4 Mobility in soil	
Mobility	The product is insoluble in water.
12.5 Results of PBT and vPvB Assessment	
Results of PBT and vPvB Assessment	This material is an inorganic substance and does not meet the criteria for PBT or vPvB.
12.6 Other Adverse Effects	
Other Adverse Effects	None known

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods	
General Information	Minimise generation of waste, Reuse / Recycle wherever possible.
Disposal Methods	Dispose of waste in line with relevant Waste legislation (Not classed as Hazardous Waste). Contain waste of finer particle size and do not allow disposal in or near watercourses.

SECTION 14: Transport Information

General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).
14.1 UN Number	
	Not applicable
14.2 UN Proper Shipping Name	
	Not applicable
14.3 Transport Hazard Class(es)	
	No transport warning sign required.
14.4 Packing Group	
	Not applicable

Telephone: +44 (0) 1248 600 656
Website: www.welshslate.com e-mail: enquiries@welshslate.com
Penrhyn Quarry, Bethesda, Bangor, Gwynedd, LL57 4YG United Kingdom

14.5 Environmental Hazards	
Environmentally Hazardous Substance / Marine Pollutant	No.
14.6 Special Precautions for User	
	Not applicable
14.7 Transport in Bulk according to Annex II of MARPOL and the IBC Code	
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable

SECTION 15: Regulatory Information

15.1 Safety, Health and Environmental Regulations / Legislation Specific for the Substance / Mixture	
National Regulations	Health and Safety at Work etc. Act 1974 UK Registration, Evaluation, Authorisation & restriction of Chemicals (REACH) Control of Substances Hazardous to Health Regs 2002 (as amended) EH40/2005 Workplace Exposure Limits (4th Edition – Jan 2020)
EU Legislation	Regulation (EC) No 1907/2006 of the EU (REACH) Regulation (EC) No 1272/2008 of the EU (CLP)
15.2 Chemical Safety Assessment	
	No chemical safety assessment undertaken.
15.3 Inventories	
	Not listed as exempt.

SECTION 16: Other Information

General	Other information: Dry dust from natural slate is a substance hazardous to heath and requires employers to carry out an assessment of risk in accordance with the COSHH Regulations 2002.
Abbreviations	DNEL: Derived No Effect Level. DMEL: Derived Minimal Effect Level. PNEC: Predicted No Effect Concentration. ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. IATA: International Air Transport Association. IMDG: International Maritime Dangerous Goods. RID: European agreement re the Int carriage of dangerous goods by rail RCS: Respirable Chrystaline Silica WEL: Workplace Exposure Limit STEL: Short Term Exposure Limit
SDS Status	Approved
SDS Reference	BPWS 101

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.
This company shall not be held liable for any harm or damage resulting from handling or from contact with the above products.

Telephone: +44 (0) 1248 600 656
Website: www.welshslate.com e-mail: enquiries@welshslate.com
Penrhyn Quarry, Bethesda, Bangor, Gwynedd, LL57 4YG United Kingdom