

SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product Identifier:

Product Name:	QUARRY PRODUCTS
Synonym (s):	Aggregate Drainage Aggregate Concrete Aggregate Asphalt Aggregate Gravel Fill Manufactured Sand Ballast Gabion Armor Rock Road Base Spalls Andesite Karuah Red Rhyolite

1.2 Uses and uses advised against:

Uses (s)	Quarry products are used in a wide range of building construction and civil engineering work such as: Concrete Asphalt Drainage Fill Road Base Landscaping
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1.3 Details of the supplier of the product:

Supplier Name:	Hunter Quarries Pty Ltd and Karuah East Quarry Pty Limited
Address:	Andersite Road, KARUAH NSW 2324
Telephone:	(02) 4997 5966
Email:	karuah@hunterquarries.com.au

1.4 Emergency telephone number:


Emergency	13 11 26 (Poisons Information Centre)
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2. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

2.1 Classification of the substance:

GHS classification	<ul style="list-style-type: none"> • In their solid form the products are non-Hazardous • Dust in/on the products, as supplied, or generated by blasting, cutting and abrading contain crystalline silica which is classified as Hazardous according to Safe Work Australia criteria. Some particles may be small enough to be respirable into the lungs when inhaled. In this form the classification is: <ul style="list-style-type: none"> ○ Carcinogenicity: Category 1A ○ Specific target organ systemic toxicity (Repeated Exposure): Category 1
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2.2 Label elements:

Signal word	DANGER
Pictogram (s)	
Hazard statement	
H350	May cause cancer
H372	Causes damage to organs through prolonged or repeated exposure

Prevention Statement	
P201	Obtain instructions before use
P202	Do not handle until all safety precautions have been read and understood
P260	Do not breathe dust/fume/gas/mist/vapors/spray
P264	Wash thoroughly after handling
P270	Do not eat drink or smoke when using this product
P281	Use personal protective equipment as required
Response Statement	
P308 + P313	If exposed or concerned: Get medical advice/attention
Storage Statement	Non Allocated
Disposal	
P501	Dispose of contents/container in accordance with relevant regulations

2.3 Other hazards:

- The solid product as supplied is classified as non-Hazardous.
- Small dust particles, typically less than 10 microns, may be respirable (i.e. small enough to enter deep into the lungs when inhaled).

3. COMPOSITION – INFORMATION ON INGREDIENTS

3.1 Substances / Mixtures:

Ingredient:	QUARTZ (CRYSTALLINE SILICA)
CAS Number:	14808-60-7
EC Number:	238-878-4
Content:	>40%

Note: Depending upon the source material, may contain varying amounts of respirable quartz (crystalline silica)

4. FIRST AID MEASURES

4.1 Description of first aid measures:

Eye:	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Centre, a qualified medical practitioner, or at least for 15 minutes.
Inhalation:	Remove from dusty area to fresh air. Apply artificial respiration if not breathing.
Skin:	If skin or hair contact occurs, remove contaminated clothing and wash off skin and hair with running water and mild soap (if available). If irritation persists seek medical attention.
Ingestion:	For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a Doctor. Due to product form and application, ingestion is considered unlikely.
First aid facilities:	Eye wash facilities and shower should be available.

4.2 Important symptoms and effects both acute and delayed:

Chronic exposure to crystalline silica contained in dust particles may result in lung fibrosis (silicosis). Principal symptoms of silicosis are coughing and breathlessness. Crystalline silica is classified as carcinogenic to humans (IARC Group 1) and may cause lung disease including lung cancer.

4.3 Medical Treatment:

Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media:

Use an extinguishing agent suitable for the surrounding fire.

5.2 Hazards arising from the substance or mixture:

Non-flammable. May evolve toxic gases if strongly heated.

5.3 Advice for firefighters:

No fire or explosion hazard exists.

5.4 Hazchem code:

None allocated.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precaution, protective equipment and emergency procedures:

Wear personal protective equipment (PPE) as detailed in section 8 of this SDS.

6.2 Environmental precautions:

Prevent product from entering drains and waterways.

6.3 Methods of cleaning up:

Contain spillage, then collect and place in suitable containers for disposal.

Where possible avoid generating airborne dust. Wetting the area / material with water may improve dust control. Where possible try to avoid clean-up in windy conditions to reduce exposure to dust.

6.4 Reference to other sections:

Section 8 Exposure Controls / Personal Protection

Section 13 Disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

Take precautions to avoid generating dust. In dusty conditions avoid eye or skin contact and inhalation by employing safe work practices.

For solid product apply manual handling practices (refer to WHS Regulations and Codes of Practice for guidance)

7.2 Conditions for safe storage:

The faces of stockpiled solid products should be at or less than the natural angle of repose. Steep faces are to be avoided as they may collapse spontaneously or if disturbed, risking engulfment that could result in injury or suffocation.

7.3 Specific end use:

No information provided.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Exposure standards

Ingredient	Reference	TWA		STEL	
		ppm	Mg/m3	ppm	Mg/m3
Quartz (respirable dust)	SWA (AUS)	--	0.1	--	--

Note: Exposure to atmospheric dust must be kept as low as reasonably practical and in any event below the Workplace Exposure Standard for Airborne Contaminants. Exposure within the Time Weighted Average (TWA) limit should not cause health concerns for most workers based on current medical knowledge.

Biological limits

No biological limit values have been entered for this product.

8.2 Exposure controls:

Engineering controls	<ul style="list-style-type: none"> • Avoid inhalation. • Use in well ventilated areas. • Where an inhalation risk exists: <ul style="list-style-type: none"> ○ mechanical extraction ventilation is recommended ○ wet down the area / product where possible. ○ maintain dust levels below the recommended exposure standard.
PPE	<p>When handling the product:</p> <p>Eye / Face Wear safety glasses or dust-proof goggles to avoid contact with eyes.</p> <p>Hands Wear suitable gloves to prevent skin contact.</p> <p>Body Wear a long sleeved shirt and (full length) trousers.</p> <p>Respiratory Not required where engineering controls are in place and sufficient to control exposure to dust. If an inhalation risk exists personal respiratory protection complying with AS/NZS1716 may be required. The type of protection will depend on total airborne dust and respirable crystalline silica concentration levels and exposure (by frequency and time).</p>

Note: A task specific risk assessment should be completed to ensure adequate controls are in place prior to handling.



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance	Ranges in colour including; cream, brown, pink/red and dark blue/grey. Particle shape is typically angular and cubical. Aggregate texture is generally rough and abrasive. Manufactured Sand particles are typically less than 5mm. Road bases may be a combination of aggregates, manufactured sand and naturally occurring clay materials.
Odour	Odourless
Flammability	Non Flammable
Flash Point	Not Relevant
Boiling Point	Not Available
Melting Point	> 1200°C
Evaporation Rate	Not Available
pH	Not Available
Vapour Density	Not Available
Specific Gravity	Not Available
Solubility (water)	< 2 G/L
Vapour Pressure	Not Available
Upper Explosion Limit	Not Relevant
Lower Explosion Limit	Not Relevant
Partition Coefficient	Not Available
Autoignition Temperature	Not Available
Decomposition Temperature	Not Available
Viscosity	Not Available
Explosive Properties	Not Explosive
Oxidising Properties	Not Oxidising
Odour Threshold	Not Available

9.2 Other Information:

Bulk Density	1400 kg/m ³ to 1800 kg/m ³
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10. STABILITY AND REACTIVITY

10.1 Reactivity:

This material is considered inert in normal circumstances

10.2 Chemical stability:

Chemically stable

10.3 Possibility of hazardous reactions:

Polymerisation will not occur.

10.4 Conditions to avoid:

Dust generation

10.5 Incompatible materials:

Incompatible with strong acids (e.g. hydrofluoric acid).

10.6 Hazardous decomposition products:

This material will not decompose to form hazardous products.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Acute toxicity	This product is expected to be of low toxicity. Under normal conditions of use, adverse health effects are not anticipated.
Skin	Not classified as a skin irritant. However, if dust is formed, over exposure may result in mild irritation, rash and dermatitis.
Eye	Not classified as a skin irritant. However if dust formed, over exposure may result in mild irritation, lacrimation and redness.
Sensitization	This product is not known to be a skin or respiratory sensitizer.
Mutagenicity	Insufficient data available to classify as a mutagen.
Carcinogenicity	Dust in/on the supplied product or created when the product is cut, abraded or crushed may contain crystalline silica some of which may be respirable (particles small enough to penetrate to the unciliated airways of the lung when breathed in). Crystalline silica is classified as carcinogenic to humans (IARC Group 1). There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis.
Reproductive	Insufficient data available to classify as a reproductive toxin.
STOT – Single exposure	Not classified as causing organ effects from single exposure.
STOT – repeated exposure	Repeated exposure to respirable silica at levels greater than the Workplace Exposure Standard (WES) may result in serious, irreversible lung disease including silicosis (scarring of the lung) and chronic bronchitis and chronic obstructive airways disease. Principal symptoms of silicosis are coughing and breathlessness.
Aspiration	As the product is a solid aspiration hazards are not expected to occur.

12. ECOLOGICAL INFORMATION

12.1 Toxicity:

The main component/s of this product are not anticipated to cause any adverse effects to the environment. When mixed with water crushed product or dust may form a slightly alkaline, slightly acidic or neutral slurry.

12.2 Persistence and degradability

Product is persistent and non-degradable.

12.3 Bio accumulative potential:

This product is not expected to bio accumulate.

12.4 Mobility in soil:

A low mobility would be expected in a landfill situation.

12.5 Other adverse effects:

Avoid contamination of drains and waterways.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Waste Disposal	Ensure product is covered with soil to prevent dust generation. Dispose of to an approved council landfill. Recycling the products into civil construction or building activities may be a possible alternative. Personal precautions should be taken against exposure to dust.
Legislation	Dispose of in accordance with relevant local legislation

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG/IMO)	AIR TRANSPORT (IATA/ICAO)
14.1 UN Number	None Allocated	None Allocated	None Allocated
14.2 Proper Shipping Name	None Allocated	None Allocated	None Allocated
14.3 Transport hazard class	None Allocated	None Allocated	None Allocated
14.4 Packing Group	None Allocated	None Allocated	None Allocated
14.5 Environmental Hazards:	No information provided		
14.6 Special precautions for user:	Hazhem Code: None Allocated		

15. REGULATORY INFORMATION

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

Poison Schedule	A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP). Hazardous Substance Regulations requiring exposure assessment, health surveillance and controls may be required in environments where exposure by inhalation to high dust levels is present.	
Classifications	Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals. The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous Substance {(NOHSC: 1008(2004))}.	
Hazard Codes	Carc. T	Carcinogenic Toxic
Risk Phrases	R48/23 R49	Toxic: danger of serious damage to health by prolonged exposure through inhalation. May cause cancer by inhalation
Safety Phrases	S22	Do not breathe dust.
	S45	In case of accident or if you feel unwell seek medical advice immediately

Inventory listing (s)	AUSTRALIA: AICS (Australian Inventory of Chemical Substances) All components are listed on AICS, or exempt.
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16. REGULATORY INFORMATION

Additional information	<p>PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:</p> <p>The recommendation for protective equipment contained within this SDS is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls must be considered before final selection of personal protective equipment is made.</p> <p>HEALTH EFFECTS FROM EXPOSURE:</p> <p>It should be noted that the effects from exposure to this product will depend on factors including; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Users must assess their specific risks and apply suitable control methods.</p>
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Abbreviations	<p>ACGIH American Conference of Government Industrial Hygienists</p> <p>CAS # Chemical Abstract Service number – used to uniquely identify chemical compounds</p> <p>EC No. EC NO – European Community Number</p> <p>GHS Globally Harmonised System</p> <p>IARC International Agency for Research on Cancer</p> <p>Mg/m³ Milligrams per cubic meter</p> <p>pH relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline)</p> <p>ppm Parts Per Million</p> <p>STEL Short Term Exposure Limit</p> <p>STOT-RE Specific target organ toxicity (repeated exposure)</p> <p>STOT-SE Specific target organ toxicity (single exposure)</p> <p>SUSMP Standard for the Uniform Scheduling of Medicines and Poisons</p> <p>SWA Safe Work Australia</p> <p>TWA Time Weighted Average</p>
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Revision history	Revision	Description
	2.0	Converted to GHS
	1.0	Initial Release

Report status	<p>This document has been compiled by the manufacturer, supplier of the product and serves as their Safety Data Sheet (SDS)</p> <p>This information presented herein is based on data considered to be accurate as of the date of preparation of this SDS. However, no warranty or representation, express or implied, is made as to the accuracy or completeness of the foregoing data and information, nor is any authorisation given or implied to practice any patented invention without a license. In addition, no responsibility can be assumed by the vendor for any damage or injury resulting from abnormal use, without a risk assessment for safe use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the products.</p> <p>This Safety Data Sheet (SDS) applies only to the formulated material as supplied by Hunter Quarries Pty Ltd and Karuah East Quarry Pty Limited. It does not apply where formulation has been altered. In this case a new SDS may be required to reflect the modified material. Contact Hunter Quarries for further information.</p>
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	Printed documents are uncontrolled.
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Prepared by:	Hunter Quarries Pty Ltd and Karuah East Quarry Pty Limited Andersite Road, KARUAH NSW 2324 (02) 4997 5966 karuah@hunterquarries.com.au
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