

1 IDENTIFICATION OF MATERIAL AND SUPPLIER**1.1 Product Identifier**Product Name: [Quarry products](#)

Synonym(s): Crushed stone(s), Gravel(s), Aggregates(s), Drainage Aggregate(s), Roadbase, Precoat Aggregate(s), Sand(s), Crusher Dust, Manufactured sand, Armour stone, Fill material(s)

1.2 Uses and uses advised against

Use(s): As a material used extensively in concrete for building construction and civil engineering activities.

1.3 Details of the supplier of the product

Supplier Name: NUCRUSH PTY LTD

Address: Hart Street, Upper Coomera, QLD, 4209

Telephone: 07 5573 8000

Email: sales@nucrush.com.auWeb site: www.nucrush.com.au**1.4 Emergency telephone number(s)****Emergency (A/H)** 13 11 26 (Poisons Information Centre)**2: HAZARD IDENTIFICATION****2.1 Classification of the substance or mixture**

CLASSIFIED AS HAZARDOUS ACCORDING TO THE SAFE WORK AUSTRALIA CRITERIA

GHS classifications

2.2 GHS Label Elements**Signal word** **Danger**

Pictograms

Hazard statements

H350 May cause cancer by inhalation

H373 May cause damage to organs through prolonged or repeated exposure.

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Prevention statements

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P260	Do not breathe dust/fume/gas/mist/vapours/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 statements

P308 + P313 + P314	If exposure or concerned: Seek medical advice/attention.
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Storage Statements

P405	Store locked up
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Disposal statements

P501	Dispose of contents/container in accordance with relevant regulations
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2.3 Other Hazards

The hazard information provided in this Safety Data Sheet applies to the dusts within Quarry Products and particularly inhalable dust particles.

* Acute over exposure by inhalation may result in respiratory irritation.

* Chronic over exposure by inhalation to silica quartz dust may result in silicosis (lung disease). Principal symptoms of silicosis are coughing and breathlessness.

3 COMPOSITION / INFORMATION ON INGREDIENTS

This section may require changes for different product/s.

3.1 Substances / Mixtures

INGREDIENT	CAS NUMBER	EC NUMBER	CONTENT
AGGREGATES and SANDS (and DUST) CONTAINING > 1% CRYSTALLINE SILICA	14808-60-7	238-878-4	<100%

4 FIRST AID MEASURES

This section may require changes for different product/s.

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 Information Centre, a doctor, or for at least 15 minutes
Inhalation	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.
Skin	If skin or hair contact occurs, remove contaminated clothing, and brush off loose particles before flushing skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor
Ingestion	For advice, contact a Poisons Information Centre on 13 11 26 or a doctor (immediately). Due to product form and application, ingestion is considered unlikely.
First aid facilities	Eye wash facilities and safety shower should be available.

4.2 Most important symptoms and effects, both acute and delayed

Repeated exposure to crystalline silica 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).

4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

5 FIRE FIGHTING MEASURES**5.1 Extinguishing media**

Use an extinguishing media agent suitable for surrounding fire.

5.2 Special hazards arising from the substance or mixture

Non-flammable.

5.3 Advise for fire fighters

No fire or explosion hazard exist

5.4 Hazchem code

None allocated

6 ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment, and emergency measures**

If dust is or could be present wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible.

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. Avoid generating dust.

6.4 Reference to other sections

See sections 8 and 13 for exposure controls and disposal.

7 HANDLING AND STORAGE**7.1 Precautions for safe handling**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands after use (). Prohibit eating, drinking, and smoking in contaminated areas. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

All stockpiles and storage areas should be managed to avoid dust generation or run-off.

7.3 Specific end uses

No information provided

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8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure standards

INGREDIENT	REFERENCE	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Quartz (respirable crystalline silica)	SWA (AUS)	--	0.05	--	--

Biological limits No biological limit values have been entered for this product.

8.2 Exposure controls

Engineering controls Avoid generating dust and inhalation, store & use in well ventilated areas. Where an inhalation risk exists, dust suppression is recommended, including wetting materials where possible. Maintain dust levels below the recommended exposure standard.

PPE Personal protective equipment (PPE) should meet recommended national standards.
 Eye / Face Wear safety glasses or dust-proof goggles. Refer to AS/NZS 1336
 Hands Wear PVC, rubber, or cotton gloves when handling material to prevent skin contact. Refer to AS/NZS 2161
 Body Wear long sleeved shirt, full-length trousers, and safety boots
 Respiratory Where an inhalation risk exists use P2 particulate respirator in accordance with AS/NZS 1715 and AS/NZS 1716, dependent on a site-specific risk assessment



9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical properties

Appearance	SOLID
Odour	ODOURLESS
Flammability	NON-FLAMMABLE
Flash point	NOT RELEVANT
Boiling point	NOT AVAILABLE
Melting point	NOT AVAILABLE
Evaporation rate	NOT AVAILABLE
pH	NOT AVAILABLE
Vapour density	NOT AVAILABLE
Specific gravity	NOT AVAILABLE
Solubility (water)	INSOLUBLE
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 AVAILABLE
Oxidising properties	NON-OXIDISING
Odour threshold	NOT AVAILABLE

10 **STABILITY AND REACTIVITY**

10.1 **Reactivity**

This material is considered inert

10.2 **Chemical stability**

Stable under recommended conditions of storage

10.3 **Possible hazardous reactions**

Polymerisation will not occur

10.4 **Conditions to avoid**

Avoid dust generation, use wet or vacuum methods for cleaning.

10.5 **Incompatible materials**

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

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 acute toxicity. Under normal conditions of use, adverse health effects are not anticipated
Skin	Contact may result in mechanical irritation, redness, rash, and dermatitis
Eye	Contact may result in mechanical irritation, lacrimation, and redness,
Sensitisation	Not classified as causing respiratory sensitisation.
Mutagenicity	Insufficient data available to classify as a mutagen
Carcinogenicity	This product contains crystalline silica which is classified as carcinogenic to humans (IARC Group 1). However, there is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis. Therefore, preventing the onset of silicosis will also reduce the cancer risk. Epidemiological studies have shown that smoking increases the risk of bronchitis, silicosis (scarring of the lung) and lung cancer in persons exposed to respirable crystalline silica.
Reproductive	Insufficient data available to classify as a reproductive toxin
STOT – single exposure	Not classified as causing organ damage from single exposure
STOT – repeated exposure	Repeated exposure to respirable silica may result in pulmonary fibrosis (silicosis). Silicosis is a fibronodular lung disease caused by deposition in the lungs of fine respirable particles of crystalline silica. Principal symptoms of silicosis are coughing and breathlessness.
Aspirations	This product is a solid and 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

12.2 **Persistence and degradability**

Not applicable for inorganic substances.

12.3 **Bioaccumulative potential**

This product is not expected to bioaccumulate.

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**

Waste disposal	Ensure product is kept damp or covered with moist soil to prevent dust generation and dispose of at approved Council landfill. Contact the manufacturers/supplier for additional information (if required)
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

Not a marine pollutant.

14.6 Special precautions for user

Hazchem code None allocated

Avoid contamination of drains, waterways and dust generation.

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).
Inventory listings	AUSTRALIA: AICS (Australian Inventory of Chemical Substances) All components are listed on AICS or are exempt.
Classifications	Safe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals (GHS Revision 7).

16 OTHER INFORMATION

Additional information

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application.

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Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
CAS #	Chemical Abstract Service number - used to uniquely identify chemical compounds
CNS	Central Nervous System
EC No.	EC No - European Community Number
EMS	Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)
GHS	Harmonized System
GTEPG	Group Text Emergency Procedure Guide
IARC	International Agency for Research on Cancer
LC50	Lethal Concentration, 50% / Median Lethal Concentration
LD50	Lethal Dose, 50% / Median Lethal Dose
mg/m ³	Milligrams per Cubic Metre
OEL	Occupational Exposure Limit
pH	relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
ppm	Parts Per Million
STEL	Short-Term Exposure Limit
STOT-RE	Specific target organ toxicity (repeated exposure)
STOT-SE	Specific target organ toxicity (single exposure)
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
SWA	Safe Work Australia
TLV	Threshold Limit Value
TWA	Time Weighted Average

Report Status

The 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 safety information, nor is any authorisation given or implied to practice any patented invention without a licence. 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.

This Safety Data Sheet (SDS) applies only to the formulated material as supplied by Nucrush. It does not apply where the formulation has been altered. In this case a new SDS may be required to reflect the modified material. Contact Nucon Concrete for further information.

Printed documents are uncontrolled. Refer to www.Nucrush.com.au regularly for a more recent copy of the SDS where it exists.

Contact For further information contact Nucrush Office on 07 5573 8000.

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