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SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	Hard Rock Aggregates
Other Descriptors	Concrete Aggregates, Drainage Aggregates, Road Base, Crusher Dust, Manufactured Sand, Fill, Railway Aggregate
Used for	Industrial and Landscape
Supplier Name	Gunlake Quarries
Head Office Address	Level 2, 53 Cross St Double Bay NSW
Quarry Address	715 Brayton Rd, Marulan NSW 2579
Contact Numbers	Ph (02) 4841 1344 Fax (02)4841 1366
Email	quarry@gunlake.com.au
Website	www.gunlake.com.au
Emergency Contacts	000 Fire Ambulance Police
Poisons Hotline	13 11 26 (Australia only)

2. HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE:
The products as supplied are non-Hazardous according to the Approved criteria For Classifying Hazardous Substances [NOHSC:1008] 3rd Edition.
Gunlake Aggregate Products are classified as Non-Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
Dust of these products contains crystalline silica, some of which may be respirable (particles small enough to go into the deep parts of the lung when breathed in), and which is Hazardous.

The following risk, safety and response phrases refer **ONLY to the dust** of these products

SIGNAL WORD	**WARNING**
PICTOGRAM	
HAZARD STATEMENT	**H373 –** May cause damage to organs through prolonged or repeated exposure.
PREVENTION STATEMENT	**P260** - Do not breathe dust **P201** - Obtain instructions before use **P202 -** Do not handle until all safety precautions have been read and understood **P281** - Use personal protective equipment as required
RESPONSE STATEMENT	**P314** - Get medical advice/attention if you feel unwell

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Identification	Content
Aggregate containing QUARTZ (crystalline silica)	CAS 14808-60-7	Up to 35%

Ingredient Notes:

Aggregates are sourced from naturally occurring deposits processed, stockpiled and loaded for transport on site at Marulan Quarry. No foreign of introduced component is added during any of these processes unless noted. Naturally occurring aggregates are known to contain some traces of Crystalline Silica.

4. FIRST AID MEASURES

First aid measures primarily for the exposure to dust caused from disturbance to quarried material

EYES	Flush eyes continually for 15 mins or until advised by a doctor or Poisons Information Centre using eye wash station/facilities. Seek medical advice if particles are still lodged in eye/s
INHALATION	Remove victim from affected area and monitor. If symptom persist seek medical advice and treatment. Symptoms may include Persistent cough, irritable throat
SKIN	Remove heavily contaminated clothing and thoroughly wash skin with water. A mild soap may be used if available. Use of a shower station is advised if heavy or excessive exposure. Seek medical advice if symptoms such as irradiation and itching persist.
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 RECOMMENDATIONS	Installation of eye bath facilities and shower wash-down area.

Further notes:

Prolonged exposure to Crystalline Silica can result in lung fibrosis (silicosis). Symptoms of which include, persistent cough, breathlessness and fatigue. Crystalline silica is classified as carcinogenic to humans (IARC Group 1) and may cause lung disease including lung cancer. Seek medical advice if symptoms persist.

Use appropriate PPE to minimise exposure to airborne dust particles. Clean well-maintained Air-conditioned cabs on equipment, personal dust masks, protective clothing and eye wear.

5. FIRE FIGHTING MEASURES

FLAMMABILITY	Nil
HAZCHEM CODE	None allocated
FIRE FIGHTING PROCEDURE	Treat fire with appropriate extinguishing material based on surrounding flammable source.
HAZARDS	None

SPECIAL PPE FOR FIRE FIGHTERS	None

6. ACCIDENTAL RELEASE MEASURES

The following pertains mainly to dust particles when disturbed or in the process of manufacture or handling.

METHODS OF SUPPRESSION OR CAPTURE	Use water in the form of a spray or direct source to supress airborne dust particles. Vacuum devices can remove surface or concentrated dust particles. Wetting down of material before loading, removal or sweeping will minimise dust production.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING	Manual handling should be in accordance with manual handling regulations and codes as directed
CONDITIONS FOR SAFE STORAGE	Avoid dust production by wetting down material prior to handling and stockpiling. Wet down material in windy conditions or prior to tipping. Use appropriate PPE when handling. When stockpiling ensure that faces are battered to reduce the possibility of slippage causing possible entrapment or suffocation
ADDITIONAL INFORMATION	None

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards:

Ingredients	**Reference**	**Time Weighted Average**		**Short term exposure limit**	
		ppm	**Mg/m3**	**ppm**	**Mg/mg3**
Quartz (Crystalline Silica)	Safe Work Australia	-	0.05	-	-

No Biological limit values have been entered for this product

Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists mechanical extraction ventilation is recommended. Maintain Crystalline Silica levels below the recommended exposure standard. PPE should meet recommended National standards.

Exposure Controls:

ENGINEERING	All work should be carried out in such a way as to minimise dust generation, and exposure to dust. Mechanical ventilation: Dust extraction and collection may be used, if necessary, to control airborne dust levels Work areas should be cleaned regularly
EYE / FACE	Wear safety glasses or dust-proof googles to avoid contact with eyes.
HANDS	Wear suitable gloves to prevent skin contact.
BODY	Wear a long-sleeved shirt and (full length) trousers
RESPIRATORY	Where an inhalation risk exists wear a Class P2 (Particulate) disposable face piece or a respirator, dependent on a site-specific risk assessment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance - Solid grey in colour in various size from 1mtr down to 75 micron or less

ODOUR	Odourless
FLAMMABILITY	Non Flammable
FLASH POINT	Not Relevant
BOILING POINT	Not Relevant
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 Explosive
OXIDISING PROPERTIES	Non Oxidising
ODOUR THRESHOLD	Not Available

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY	Stable under recommended conditions of storage
POSSIBILITY OF HAZARDOUS REACTIONS	Polymerization will not occur
CONDITIONS TO AVOID	No known conditions to avoid
INCOMPATIBLE MATERIALS	Incompatible with strong acids
HAZARDOUS DECOMPOSITION PRODUCTS	Will not decompose to form hazardous products

11. TOXICOLOGICAL INFORMATION

Information on Toxicological effects

ACUTE TOXICITY	No known data available
SKIN	Contact may cause irritation or redness of affected area
EYES	Contact may cause irritation through abrasive action
SENSITISATION	This product is not known to be a skin or respiratory sensitiser
MUTAGENICITY	Insufficient data 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.
REPRODUCTIVE	Insufficient data to classify as a reproductive toxin

SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE	Not classified as causing organ effects from single exposure.
SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE	Repeated exposure to respirable silica may result in pulmonary fibrosis (silicosis). Silicosis is a fibro nodular lung disease caused deposition in the lungs of fine respirable particles of crystalline silica Principal symptoms of silicosis are cough and breathlessness.
ASPIRATION	This product is not expected to present an aspiration hazard.

12. ECOLOGICAL INFORMATION

TOXICITY	The main component/s of this product are not anticipated to cause any adverse effects to the environment.
PERSISTENCE AND DEGRADABILITY	Product is persistent and non-degradable.
BIOACCUMULATIVE POTENTIAL	This product is not expected to bioaccumulate
MOBILITY IN SOIL	A low mobility would be expected in a landfill situation.
BIOACCUMULATIVE POTENTIAL	This product is not expected to bioaccumulate.
OTHER ADVERSE EFFECTS	Prevent contamination of drains or waterways

14. Disposal Consideration

WASTE DISPOSAL	Reuse or recycle where possible. Alternatively, ensure product is kept moist to prevent dust generation and dispose of within an approved landfill site. Contact the manufacturer for additional formation. Legislation.
LEGISLATION	Dispose of in accordance of local legislation

15. Transportation information

Not classified as a dangerous good by the Criteria of the ADG Code, IMDG or IATA

16. Regulatory Information

Poisons Schedule	Not Scheduled

17. Other Information

Date of revision of this SDS – September 2020

Notice: We believe the information contained in this Safety Data Sheet is accurate and is given in good faith, but no warranty expressed or implied is made. The suggested procedures are based on experience as of the date of publication. They are not necessarily all-inclusive nor fully adequate in every circumstance. Users are advised to make their own independent determination of suitability and completeness of information at their own risk, in relation to the particular purposes and specific circumstances. Since the information contained in this document may be applied under conditions beyond our control, no responsibility can be accepted by us for any loss or damage cause by any person acting or refraining from action as a result of any information contained in this Safety Data Sheet. Where the information provided herein disclosed a potential hazard or hazardous ingredient, adequate warning should be provided to employees and users and appropriate precautions taken