

SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name HOLCIM AGGREGATE PRODUCTS (AUSTRALIA)

AGGREGATES (CONCRETE ETC.) • FILL • GRAVEL • QUARRY SAND • RAILWAY BALLAST • **Synonyms**

ROADBASE

1.2 Uses and uses advised against

AGGREGATE ◆ CONSTRUCTION APPLICATIONS ◆ FILLER ◆ ROAD CONSTRUCTION Uses

1.3 Details of the supplier of the product

HOLCIM (AUSTRALIA) PTY LTD Supplier name

Level 8, Tower B, 799 Pacific Hwy, Chatswood, NSW, 2067, AUSTRALIA **Address**

Telephone (02) 9412 6600 Fax (02) 9412 6601

http://www.holcim.com.au Website

1.4 Emergency telephone numbers

(02) 9412 6600; 13 11 26 (Poisons Information Centre) **Emergency**

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

2.2 GHS Label elements

No signal word, pictograms, hazard or precautionary statements have been allocated.

2.3 Other hazards

The solid product as supplied is classified as non-hazardous under normal conditions and does not present an inhalation, ingestion, skin, or eye hazard. However, dust created when the product is processed, abraded, or crushed may cause mechanical irritation and may contain crystalline silica, some of which may be respirable. Repeated exposure to respirable crystalline silica dust may cause lung fibrosis (silicosis).

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
AGGREGATE (containing crystalline silica (quartz))	14808-60-7	238-878-4	<98%
QUARTZ (CRYSTALLINE SILICA) (Respirable fraction)	14808-60-7	238-878-4	<0.1%
ASBESTIFORM ACTINOLITE	-	-	<0.01%
AGGREGATE (as described below in notes)	-	-	<95%

Ingredient Notes

Holcim Aggregate Products are mostly supplied from naturally occurring materials excavated and processed at sand pits, gravel pits and hard rock quarries. Dependent on quarry location the rock type can be described as meta-dolerite, amphibolite, granite with dolerite dykes or greenstone consisting of varying concentrations of actinolite, epidote, feldspar, chlorite, calcite, sphenechlorite, pyroxene and limonite, as well as alluvial sands, soils and loams, trachyte, andesite, rhyolite and diorite. Natural rock dolerite aggregates may contain traces (<0.01% by weight) of fibrous actinolite. Depending upon the source materials, the crystalline silica (quartz) content of any particular quarry product can vary from trace amounts

Some quarry products (particularly roadbase products) are made by blending materials from two or more



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pits and quarries in order to meet the required physical properties or customer specification. Some materials sold as quarry products are made by recycling by-products from other industries such as reprocessing concrete from building demolition and slag from blast furnaces that produce iron and steel. Aggregates for road sealing are often precoated with a mixture of bitumen and diesel fuel prior to use, either prior to delivery from the quarry or later at a roadside stockpile.

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 Information Centre, a doctor, or for at least 15 minutes.

Inhalation Exposure is considered unlikely. Due to product form / nature of use, an inhalation hazard is not anticipated.

Skin If skin or hair contact occurs, remove contaminated clothing and flush 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 (Australia Wide) or a doctor (at once). Due to

product form and application, ingestion is considered unlikely.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

5.2 Special 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 precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS.

6.2 Environmental precautions

Prevent product from entering drains and waterways.

6.3 Methods of cleaning up

Moisten with water to prevent a dust hazard and place in sealable containers for disposal or reuse.

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

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs. Ensure containers are adequately labelled and protected from physical damage when not in use. Suppress dust with water if stored in bulk.

ChemAlert.

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7.3 Specific end uses

No information provided.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure standards

Ingredient	Reference	TWA		STEL	
Ingredient		ppm	mg/m³	ppm	mg/m³
Asbestos	SWA [AUS]		0.1 f/ml		
Quartz (respirable dust)	SWA [AUS]		0.05		

Biological limits

No biological limit values have been entered for this product.

8.2 Exposure controls

Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction **Engineering controls**

ventilation is recommended. Wet where possible.

PPE

Eye / Face If cutting or sanding with potential for dust generation, wear dust-proof goggles.

Hands Wear leather or cotton gloves.

Not required under normal conditions of use. **Body**

Respiratory If cutting or sanding with potential for dust generation, wear a Class P2 (Particulate) respirator.



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance BLUE OR GREY SOLID Odour **ODOURLESS Flammability** NON FLAMMABLE Flash point **NOT RELEVANT Boiling point NOT AVAILABLE Melting point NOT AVAILABLE Evaporation rate NOT AVAILABLE** pН **NOT AVAILABLE**

Vapour density **NOT AVAILABLE** Relative density 2.0 to 3.0 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** NOT AVAILABLE **Decomposition temperature NOT AVAILABLE** Viscosity **NOT AVAILABLE Explosive properties NOT AVAILABLE** Oxidising properties **NOT AVAILABLE Odour threshold**

9.2 Other information

% Volatiles 0 %

10. STABILITY AND REACTIVITY



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10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

10.2 Chemical stability

Stable under recommended conditions of storage.

10.3 Possibility of hazardous reactions

Hazardous polymerisation is not expected to occur.

10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources. Avoid dust formation.

10.5 Incompatible materials

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

10.6 Hazardous decomposition products

May evolve toxic gases if heated to decomposition.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

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 skin or respiratory sensitisation.

Mutagenicity Not classified 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 Not classified as a reproductive toxin.

STOT - single exposure

Over exposure may result in irritation of the nose and throat, with coughing.

STOT - repeated

exposure

Dust created when the product is cut, grinded and machined may contain respirable crystalline silica (particles small enough to go into deep parts of the lung when breathed in). Repeated overexposure to crystalline silica for extended periods may result in silicosis. In some cases the aggregate in this product may contain traces of fibrous actinolite material, which is a form of asbestos (asbestiform fibres). Excessive long term exposures to asbestiform fibres can lead to mesothelioma, lung cancer and asbestosis. However, according to a statement from Department of Mines, Industry Regulation and Safety (14 November 2013): "Exposure monitoring results gathered during air monitoring programs at quarries and mine sites show that the levels of exposure from airborne mineral fibres are below the national occupational exposure standard

and therefore present a low health risk."

Aspiration This product does not present an aspiration hazard.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Products as delivered are not biodegradable, have low eco-toxicity and are not regarded as posing any ecological risk. Crushed products and dust may form mildly alkaline, mildly acidic or neutral slurry when mixed with water.

12.2 Persistence and degradability

Product is persistent and has a low degradability.

12.3 Bioaccumulative potential

There is no evidence to suggest bioaccumulation will occur.

12.4 Mobility in soil

A low mobility would be expected in a landfill situation.

12.5 Other adverse effects

The main component/s of this product are not anticipated to cause any adverse effects to plants or animals.

ChemAlert.

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13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Reuse where possible. No special precautions are normally required when handling this product. Waste disposal

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.

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).

Classifications Safe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and

Labelling of Chemicals (GHS Revision 7).

Inventory listings **AUSTRALIA: AIIC (Australian Inventory of Industrial Chemicals)**

All components are listed on AIIC, or are exempt.

16. OTHER INFORMATION

Additional information

For Aggregate products that contain Actinolite, an independent community health risk assessment of exposure to possible asbestiform actinolite fibres in crusher dust concluded that the potential exposure to the public is likely to be of low frequency, duration and impact. As a precautionary approach, it was recommended that this product should not be used in playgrounds. Additionally, Holcim have extended this precautionary approach to recommend that it should not be used in domestic applications such as garden beds and driveways.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

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The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, 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: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.



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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 Globally 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/m³ 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

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

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