

SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name PRECAST CONCRETE PRODUCTS AND PIPES

Synonyms HOLCIM PRECAST CONCRETE PRODUCTS AND PIPES

1.2 Uses and uses advised against

Uses CONCRETE • CONSTRUCTION

1.3 Details of the supplier of the product

Supplier name HOLCIM (AUSTRALIA) PTY LTD

Address Level 40, 100 Miller Street, North Sydney, NSW, 2060, AUSTRALIA

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

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

1.4 Emergency telephone numbers

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

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 cut, grinded or machined 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 |
|-------------------------------|------------|-----------|-----------|
| QUARTZ (CRYSTALLINE SILICA) | 14808-60-7 | 238-878-4 | 20 to 85% |
| PORTLAND CEMENT, SLAG/FLY ASH | 65997-15-1 | 266-043-4 | 10 to 20% |
| FILLER(S) | - | - | <20% |
| WATER | 7732-18-5 | 231-791-2 | <20% |
| STEEL | - | - | <10% |
| ADDITIVE(S) | - | - | <1% |

Ingredient Notes

Notes: Crystalline-silica (quartz) may be a constituent of sand, crushed stone, gravel, blast furnace slag and fly ash used in any particular concrete mix. Cement in concrete contains traces of Chromium VI (hexavalent). Cementitious additives may contain traces of metals.

4. FIRST AID MEASURES



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4.1 Description of first aid measures

Eve (Dust exposure) Flush gently with running water, irrigating under eyelids. Seek medical attention if irritation

develops.

Inhalation (Dust exposure) If inhaled remove from contaminated area. Apply artificial respiration if not breathing. (Dust exposure) Gently flush affected areas with water. Seek medical attention if irritation develops. Skin

Ingestion Due to product form and application, ingestion is considered unlikely.

First aid facilities Eye wash facilities should be available.

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

If spilt, collect and reuse where possible.

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. If sanding, drilling or cutting, use appropriate local extraction ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Ensure material is adequately labelled and protected from physical damage.

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/m³ | ppm | mg/m³ |
| Iron oxide fume (Fe2O3) (as Fe) | SWA [AUS] | | 5 | | |
| Portland cement | SWA [AUS] | | 10 | | |
| Portland cement | SWA [Proposed] | | 1 | | |
| Quartz (respirable dust) | SWA [AUS] | | 0.05 | | |
| Quartz (respirable dust) (Precautionary advice) | WorkSafe VIC | | 0.02 | | |

Biological limits

No biological limit values have been entered for this product.

8.2 Exposure controls

Engineering controls

All work should be carried out in such a way as to minimise dust generation and reduce inhalation to as low as reasonably practicable."Uncontrolled" dry cutting or processing such as grinding should be avoided. Utilise water to suppress dust or on- tool extraction to collect dust where power tools are used to cut, grind and drill cured concrete.

Use wet methods or Class M or H vacuums for cleaning equipment surfaces where dust may have accumulated from use of power tools. Maintain ambient levels of Respirable Dust and Respirable Crystalline Silica levels below the recommended exposure standards (see 8.1 above).

PPE

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

Wear leather or cotton gloves. Hands

Body Not required under normal conditions of use.

Respiratory

Personal respiratory protection may be required where dust is airborne. The type of respiratory protection required depends primarily on the concentration of the inhalable and respirable dust in the air, and the frequency and length of exposure time. A suitable P2 particulate respirator chosen and used in accordance with AS/NZS 1715 and AS/NZS 1716 may be sufficient for many situations, but where high levels of dust are encountered, more efficient cartridge-type or powered respirators or supplied-air helmets or suits may be necessary. Use only respirators that bear the Australian Standards mark and are fitted and maintained correctly. Dust control measures providing respiratory protection against Respirable Crystalline Silica dust will also minimise and control potential exposure to fibrous minerals.







9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

GREY SOLID Appearance Odour CEMENT ODOUR **Flammability** NON FLAMMABLE **NOT RELEVANT** Flash point **NOT AVAILABLE Boiling point** > 1200°C **Melting point**

Evaporation rate NOT AVAILABLE

pН > 7.0

Vapour density **NOT AVAILABLE**

Relative density 2.5 Solubility (water) SLIGHTLY SOLUBLE Vapour pressure NOT AVAILABLE **Upper explosion limit** NOT RELEVANT Lower explosion limit NOT RELEVANT

Partition coefficient NOT AVAILABLE Autoignition temperature NOT AVAILABLE



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9.1 Information on basic physical and chemical properties

Decomposition temperature NOT AVAILABLE NOT AVAILABLE Viscosity NOT AVAILABLE **Explosive properties** NOT AVAILABLE **Oxidising properties NOT AVAILABLE** Odour threshold

10. STABILITY AND REACTIVITY

10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

10.2 Chemical stability

No information provided.

10.3 Possibility of hazardous reactions

No information provided.

10.4 Conditions to avoid

No information provided.

10.5 Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites) and acids (e.g. nitric 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.

Information available for the ingredients:

| Ingredient | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|------------|-------------------|-------------|-----------------|
| STEEL | 30000 mg/kg (rat) | | |

Skin Mechanical irritant. Prolonged or repeated contact may result in mild irritation due to mechanical action.

Mechanical irritant. Due to product form and nature of use, the potential for exposure is reduced. Product Eye

may only present a hazard if material is cut, drilled or sanded with dust generation, which may result in

mechanical irritation.

Sensitisation Not classified as causing skin or respiratory sensitisation.

Mutagenicity Not classified as a mutagen.

Carcinogenicity Adverse health effects, usually associated with long term exposure to high respirable crystalline silica quartz dust levels are not anticipated due to product form. This product may only present a hazard if solid is cut or

drilled with dust generation. Respirable crystalline silica guartz is classified as carcinogenic to humans (IARC

Group 1).

Reproductive Not classified as a reproductive toxin.

STOT - single exposure

Dust can be generated during cutting of the product. Dusts are mechanical irritants that may cause throat

irritation.

STOT - repeated exposure

Adverse health effects, usually associated with long term exposure to high respirable crystalline silica quartz dust levels are not anticipated due to the product form. This product may present a hazard if cut or drilled

with dust generation. CAUTION: Repeated exposure to dust may cause lung fibrosis (silicosis).

Not applicable for solids. **Aspiration**

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 product and dust may form an alkaline or neutral slurry when mixed with water.

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12.2 Persistence and degradability

Product is persistent and would have 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

No information provided.

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).

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

All components are listed on AIIC, or are exempt.

16. OTHER INFORMATION

Additional information

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

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PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

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.

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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