

Safety Data Sheet

according to WHS Regulations

Print date: 18.08.2023

Revision date: 08.08.2023

1 Identification

Product Name: PRECAST CONCRETE PRODUCTS AND PIPES

Other Means of Identification: Article

Recommended Use of the Chemical and Restriction on Use:
Variety of applications in buildings and civil engineering projects.

Details of Manufacturer or Importer:
Reinforced Concrete Pipes Australia
69-99 Ferris Road, Melton South VIC 3338
115 Pearson Road, Yatala QLD 4207
Lot 90 Cocos Drive, Bibra Lake WA 6163
149 Somersby Falls Road, Somersby NSW 2250

Phone Number: 1800 88 72 72

Emergency telephone number: National Poisons Information Centre: 13 11 26

2 Hazard(s) Identification


Hazardous Nature:
NOT CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA
The finished product as supplied is exempt from UN-GHS classification requirements.
The product is not classified, according to the Globally Harmonised System (GHS).

Signal Word None

Hazard Statements None

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures
Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:		
CAS: 14808-60-7	Quartz (SiO ₂)	20-85%
	 Carcinogenicity 1A, H350i; STOT RE 1, H372	
CAS: 65997-15-1	Cement, portland, slag/fly ash	10-30%

Additional information:
The value given for quartz represents the total value, not the respirable fraction.
When finished products that contain crystalline silica are cut, crushed, drilled, polished, sawn, or ground, respirable silica dust particles are generated that are small enough to lodge deep in the lungs and can cause irreversible lung damage. During transportation, use, clean-up, or handling, follow all SafeWork Australia, and the relevant state or territorial safety authorities' regulations, procedures, and recommended practices, including wearing properly fitted, authority approved respiratory protective equipment in accordance with applicable OH&S regulations and manufacturer instructions. It is recommended to determine the actual exposure through workplace testing.

For further information, go to:
<https://www.safeworkaustralia.gov.au/safety-topic/hazards/crystalline-silica-and-silicosis>

4 First Aid Measures

Inhalation: If dust is inhaled, remove to fresh air. Seek medical attention if breathing problems develop.

Skin Contact:
In case of dust skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if irritation persists.

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Eye Contact:

In case of dust eye contact, rinse with water for several minutes, including under eyelids. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek immediate medical attention.

Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give 1-2 glasses of water to drink in small sips. Never give anything by mouth to an unconscious person. Seek medical attention if feeling unwell.

Symptoms Caused by Exposure:

Inhalation: Dust may cause irritation to the nose, throat and lungs, leading to coughing and sneezing.

Skin Contact: Dust causes skin irritation. May cause skin drying or allergic skin reaction.

Eye Contact: Dust causes serious eye damage, redness and watering.

Ingestion: May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.

5 Fire Fighting Measures

Suitable Extinguishing Media: Use fire extinguishing methods suitable to surrounding conditions.

Specific Hazards Arising from the Chemical:

No hazardous decomposition products known.

Product is not flammable.

Containers close to fire should be removed only if safe to do so. Use water spray to cool fire exposed containers.

Minimise run-off from fire fighting entering drains or water courses.

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved dust/particulate filter respirator and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe dust. Ensure adequate ventilation. Avoid generating dust.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Pick up large pieces and clean up the small pieces and dusts with a vacuum or by a wet sweeping technique.

Clean the area using an industrial vacuum cleaner equipped with H-class filter in accordance with standard AS/NZS 60335.2.69. Do not use compressed air. Wet down before cleaning to minimise dust generation.

7 Handling and Storage

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust.

Hand tools should always be used in preference to power tools in any site processing. If power tools are used, these should be fitted with exhaust extraction at the point of dust generation, or other effective local extraction.

Materials should be used and handled in a wet, rather than dry form where workable. Work areas should be cleaned regularly to remove any build-up of dust.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage: Store in a cool, dry and well ventilated area.

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8 Exposure Controls and Personal Protection

Exposure Standards:**CAS: 14808-60-7 Quartz (SiO₂)**

WES	TWA: 0.05 mg/m ³ respirable dust
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CAS: 65997-15-1 Cement, portland, chemicals

WES	TWA: 10 mg/m ³ inhalable dust
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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.

Respiratory Protection:

Where an inhalation risk exists, wear approved particulate respirator (filter type P2). At high dust levels, wear a powered air purifying respirator (PAPR) with P3 filter or an air-line respirator or a full-face P3 (particulate) respirator. See Australian/New Zealand Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Standard duty leather, PVC or rubber gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.

When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Eye and face protectors for protection against dust. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 Physical and Chemical Properties

Appearance:

Form:	Solid
Colour:	Grey
Odour:	Cementitious
Odour Threshold:	No information available
pH-Value:	>7
Melting point/freezing point:	>1,200 °C
Initial Boiling Point/Boiling Range:	No information available
Flash Point:	Not applicable
Flammability (solid, gas):	Not flammable
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure:	Not applicable
Relative Density:	2.5
Vapour Density:	Not applicable

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Evaporation Rate: Not applicable
Solubility in Water: Insoluble
Partition Coefficient (n-octanol/water): No information available
Viscosity: No information available

10 Stability and Reactivity

Possibility of Hazardous Reactions: No dangerous reactions known under conditions of normal use.

Chemical Stability: Stable at ambient temperature and under normal conditions of storage and use.

Conditions to Avoid: No further relevant information available.

Incompatible Materials: No further relevant information available.

Hazardous Decomposition Products: No hazardous decomposition products known.

11 Toxicological Information

Toxicity:

LD50/LC50 Values:

CAS: 14808-60-7 Quartz (SiO₂)

Oral	LD50	500-22,500 mg/kg (Rattus norvegicus (rat))
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Acute Health Effects

Inhalation:

Dusts are mechanical irritants and may cause irritation to the nose, throat and lungs, leading to coughing and sneezing.

Skin: Dust causes skin irritation. May cause skin drying or allergic skin reaction.

Eye: Dust causes serious eye damage, redness and watering.

Ingestion: May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.

Skin Corrosion / Irritation: Based on classification principles, the classification criteria are not met.

Serious Eye Damage / Irritation: Based on classification principles, the classification criteria are not met.

Respiratory or Skin Sensitisation: Based on classification principles, the classification criteria are not met.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity:

Based on classification principles, the classification criteria are not met.

Silica dust, crystalline, in the form of quartz or cristobalite is classified by IARC as Group 1 - Carcinogenic to humans.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Single Exposure:

Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects:

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).

Existing Conditions Aggravated by Exposure: No data available.

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12 Ecological Information

Ecotoxicity:**Aquatic toxicity:**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

CAS: 14808-60-7 Quartz (SiO₂)

LC50/96 h	>10,000 mg/l (Danio rerio (zebra fish))
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Persistence and Degradability: No data available on finished product.

Bioaccumulative Potential: Bioaccumulation is not expected to occur.

Mobility in Soil: No data available on finished product.

Other adverse effects: No further relevant information available.

13 Disposal Considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

14 Transport Information

UN Number Not regulated

Proper Shipping Name Not regulated

Dangerous Goods Class Not regulated

Packing Group: Not regulated

15 Regulatory Information

Australian Inventory of Industrial Chemicals:

All ingredients are listed.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:

Not a scheduled poison.

16 Other Information

Date of Preparation or Last Revision: 03.08.2023

Prepared by:**Abbreviations and acronyms:**

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Carcinogenicity 1A: Carcinogenicity – Category 1Ai

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - July 2020".

The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. Reinforced Concrete Pipes Australia makes no representation of the accuracy or

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