

Printing date 14.08.2017

Revision: 14.08.2017

1 Identification**Product Name: RAPID SET® CONCRETE MIX****Other Means of Identification:** Mixture**Recommended Use of the Chemical and Restriction on Use:**

Cement - Grout - Mortar. Ideal for concrete repair, a multipurpose, fast setting product that can be used for repair and construction of pavements, formed work, footings, setting posts, industrial floors, machine bases, and concrete repair.

Details of Manufacturer or Importer:

Volumetric Concrete Australia Pty Ltd
19-21 Cann Street
Guildford NSW 2161

Phone Number: 02 9632 1900**Emergency telephone number:** National Poison Information Centre: 13 11 26**2 Hazard(s) Identification****Hazardous Nature:**

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)



Skin Corrosion/Irritation 2	H315 Causes skin irritation.
Serious Eye Damage/Irritation 2A	H319 Causes serious eye irritation.
Skin Sensitisation 1	H317 May cause an allergic skin reaction.
STOT SE 3	H335 May cause respiratory irritation.

Signal Word Warning**Hazard Statements**

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.

Precautionary Statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves / eye protection / face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P321	Specific treatment (see on this label).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

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P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national regulations.

3 Composition and Information on Ingredients

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

7631-86-9	Silica	65 - 80%
960375-09-1	Calcium sulfoaluminate cement  Skin Corrosion/Irritation 2, H315; Serious Eye Damage/Irritation 2A, H319; Skin Sensitisation 1, H317; STOT SE 3, H335	20 - 35%
14808-60-7	Quartz (SiO ₂)  Carcinogenicity 1A, H350; STOT RE 1, H372	<1%

Additional information:

Note: The percentage given for quartz (CAS No. 14808-60-7) represents the total value, NOT the respirable fraction.

4 First Aid Measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

Eye Contact:

In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

Ingestion:

If swallowed, do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: May cause respiratory irritation and inflammation, including irritation to the nose, throat and lungs.

Skin Contact: Causes skin irritation, leading to skin dryness, redness and rash. May cause an allergic skin reaction.

When mixed with water the material becomes strongly basic and may cause skin burns or blistering.

Eye Contact: Causes serious eye irritation. May cause inflammation of the cornea.

Ingestion: May cause gastrointestinal irritation or burns to mucous membranes.

5 Fire Fighting Measures

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

Specific Hazards Arising from the Chemical:

Product is not flammable or combustible.

Product close to fire should be removed if safe to do so.

Special Protective Equipment and Precautions for Fire Fighters:

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

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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:

Clean the area using an industrial vacuum cleaner. Wet mopping and wiping is acceptable if vacuuming is not workable. Avoid generating dust. Place into containers for reuse or disposal.

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. 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. Contaminated work clothing must not be allowed out of the workplace. 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. Keep in original packaging, tightly closed when not in use. Protect from excessive moisture. Keep away from strong oxidising agents, acids, ammonium and salts.

8 Exposure Controls and Personal Protection

Exposure Standards:
7631-86-9 Silica

WES	TWA: 2 mg/m ³
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14808-60-7 Quartz (SiO₂)

WES	TWA: 0.1 mg/m ³ respirable dust
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Engineering Controls:

Maintain air concentration below occupational exposure standards, providing adequate ventilation.

Respiratory Protection:

Where an inhalation risk exists, wear a Class P1 (particulate) respirator. At high dust levels, wear a powered air purifying respirator (PAPR) with Class P3 (Particulate) filter or an air-line respirator or a full-face Class P3 (particulate) respirator. See Australian/New Zealand Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Impervious gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.

When selecting hand protection, the product should comply with relevant performance criteria. For example, gloves should meet a suitable level of abrasion resistance to provide protection against hazards of a workplace.

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.

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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:	Powder
Colour:	Grey or tan coloured
Odour:	Odourless
Odour Threshold:	No information available
pH-Value:	Not applicable.
Melting point/freezing point:	>1482 °C
Initial Boiling Point/Boiling Range:	>1482 °C
Flash Point:	Not applicable
Flammability:	Product is not flammable.
Auto-ignition Temperature:	Not applicable
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	Not applicable
Upper:	Not applicable
Vapour Pressure:	Not applicable.
Relative Density:	2.7 - 3.1
Vapour Density:	Not applicable.
Evaporation Rate:	Not applicable
Solubility in Water:	Slight
Partition Coefficient (n-octanol/water):	Not applicable
Viscosity:	Not applicable

10 Stability and Reactivity

Possibility of Hazardous Reactions:

Hazardous polymerisation will not occur.
When mixed with water the material becomes strongly basic.

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

Conditions to Avoid: Excessive moisture.

Incompatible Materials: Strong oxidising agents, acids, ammonium and salts.

Hazardous Decomposition Products:

When mixed with hydrofluoric acid this product may generate a corrosive gas.

11 Toxicological Information

Toxicity:**LD₅₀/LC₅₀ Values Relevant for Classification:****7631-86-9 Silica**

Oral	LD ₅₀	10000 mg/kg (rat)
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14808-60-7 Quartz (SiO₂)

Oral	LD ₅₀	500 mg/kg (rat)
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Acute Health Effects

Inhalation: May cause respiratory irritation and inflammation, including irritation to the nose, throat and lungs.

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Skin:

Causes skin irritation, leading to skin dryness, redness and rash. May cause an allergic skin reaction. When mixed with water the material becomes strongly basic and may cause skin burns or blistering.

Eye: Causes serious eye irritation. May cause inflammation of the cornea.

Ingestion: May cause gastrointestinal irritation or burns to mucous membranes.

Skin Corrosion / Irritation: Causes skin irritation.

Serious Eye Damage / Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitisation: May cause an allergic skin reaction.

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

Carcinogenicity:

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

Silica, amorphous is classified by IARC as Group 3 - Not classifiable as to its carcinogenicity to humans.

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

Specific Target Organ Toxicity (STOT) - Single Exposure: May cause respiratory irritation.

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:

Repeated or prolonged skin exposure may cause allergic dermatitis.

The prolonged and repeated exposure (by inhalation) to respirable (crystalline) silica can cause silicosis, a debilitating lung disease. The crystalline silica dust is practically insoluble in body fluids and can be deposited in lungs. Cigarette smoking can reduce the clearance of crystalline silica. The data indicates that the relative lung cancer risk is increased for people with silicosis.

Existing Conditions Aggravated by Exposure: No information available

Additional toxicological information: No information available

12 Ecological Information

Ecotoxicity:

When mixed with water the material becomes strongly basic. Environmental contamination may cause serious damage.

Aquatic toxicity: No further relevant information available.

Persistence and Degradability: No further relevant information available.

Bioaccumulative Potential: No further relevant information available.

Mobility in Soil: No further relevant information available.

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.

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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 Chemical Substances:

7631-86-9	Silica
14808-60-7	Quartz (SiO ₂)

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:
 Not Scheduled.

16 Other Information

Date of Preparation or Last Revision: 14.08.2017

Prepared by: MSDS.COM.AU Pty Ltd

www.msds.com.au

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)

Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2

Serious Eye Damage/Irritation 2A: Serious eye damage/eye irritation – Category 2A

Skin Sensitisation 1: Skin sensitisation, Hazard Category 1

Carcinogenicity 1A: Carcinogenicity – Category 1A

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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 - February 2016"

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