



Section 1. Identification

GHS product identifier : **CONTEC C1**
Product type : Solid (Powder)

Relevant identified uses of the substance or mixture and uses advised against: not applicable

Supplier / Manufacturer : Concrete Protection Pty Ltd
155 Barkly Avenue
Burnley, Victoria. 3121
Australia
Telephone no. : + 61 3 9429 3377
Email : info@conpro.com.au
Emergency telephone no. : + 61 13 11 26

Section 2. Hazards Identification

Classification of the substance or mixture : Skin corrosion/irritation – Category 2
Serious eye damage / irritation – Category 1
Specific target organ toxicity – single Exposure – Category 3
(Respiratory system)

GHS Label elements
Hazard pictograms



Signal word : Danger
Hazard statements : H315 Causes skin irritation
H318 Causes serious eye damage
H355 May cause respiratory irritation

Precautionary Statements

General : Read label before use. Keep out of reach of children.
If medical advice is needed, have product container or label at hand.

Prevention : P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray
P264 Wash skin thoroughly after handling
P271 Use only outdoors or in well-ventilated area
P280 Wear protective gloves/ eye protection/ face protection



- Response** : P302 + P352 IF ON SKIN: wash with plenty of soap and water
 P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.
 P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
 P332 + P313 If skin irritation occurs: Get medical advice/ attention.
 P362 Take off contaminated clothing and wash before reuse.
- Storage** : Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink.
 P403 + P233 Store in well-ventilated place. Keep container tightly closed
 P405 Store locked up.
- Disposal** : P501 Dispose of contents/ container to an approved waste disposal plant.
- Other hazards which do not result in classification** : No signal word

Section 3. Composition / information on ingredients

Substance / mixture : Mixture
Other means of identification: Not available

CAS number / other identifiers

CAS number : Not applicable
EC number : Mixture
Product Code : 000000

Ingredient name	%	CAS number
Quartz (SiO ₂)	<60%	14808-60-7
Cement, Portland, chemicals	<60%	65997-15-1
+/- tartaric acid	<10%	87-69-4
Sodium carbonate, anhydrous	>20%	467-19-8
Magnesium hydroxide, organic material non hazardous	<10%	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.



Occupational exposure limits, if available, are listed in section 8.

Section 4. First-aid measures

Description of necessary first aid measures

- Eye contact** : Immediate flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Skin Contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms / effects, acute and delayed

Potential acute health effects

- Eye contact** : Causes serious eye irritation
- Inhalation** : May cause respiratory irritation/ coughing
- Skin Contact** : May cause skin irritation/ Dermatitis
- Ingestion** : Irritation to mouth, throat and stomach

Over-exposed signs / symptoms

- Eye contact** : Adverse symptoms may include the following:
- Pain or irritation
 - Watering
 - redness
- Inhalation** : Adverse symptoms may include the following:
- respiratory tract irritation
 - coughing
 - nausea or vomiting
 - headache
 - drowsiness / fatigue
 - dizziness / vertigo
 - unconsciousness
- Skin Contact** : Adverse symptoms may include the following:



- irritation
- redness

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to Physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment
- Protection of first-aiders** : no action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire

Unsuitable extinguishing media: None known

Specific hazards arising

from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal

decomposition products : Decomposition products may include the following materials:

- Carbon dioxide
- Carbon monoxide
- Metal oxide / oxides

Special protective actions

for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective

equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not



touch or walk through spilt material. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in “For non-emergency personnel”

Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution.

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and Storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment. Avoid dust formation. Provide appropriate exhaust ventilation

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored or processed. Workers should wash hands and face before eating, drinking or smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.



Do not breath vapours/ dust.
Do not get in eyes, on skin, or on clothing

**Conditions for safe
Storage, including any
Incompatibilities**

: Store in accordance with local regulations.
Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls / personal protection

Control parameters

Occupational exposure limits:

Quartz (SiO₂)
TWA: 30mg/m³ Total
TWA: 10mg/m³ Respirable Dust

Cement, Portland, chemicals
TWA: 50 million particles /cubic foot (dust)
TWA: 1mg/m³ (respirable fraction)

**Appropriate engineering
controls**

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants

**Environmental exposure
controls**

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers. Filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, drinking, smoking and using the lavatory and at the end of the working period.
Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye / face protection

: Safety eyewear complying with an approved standard should



be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side shields.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risk involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and Chemical properties

Appearance

Physical state	:	Powder
Colour	:	grey
Odour	:	Characteristic
Odour threshold	:	Not available
pH	:	Not available
Melting point	:	Not available
Boiling point	:	Not available
Flash Point	:	Closed cup: Not applicable
Burning time	:	Not applicable
Burning rate	:	Not applicable
Evaporation rate	:	Not available
Flammability (solid, gas)	:	Not available



Lower and upper explosive (Flammable) limits	:	Not applicable
Vapour pressure	:	Not applicable
Vapour density	:	Not available
Density	:	- 1.8 g/cm ³ (20° C)
Solubility	:	Not available
Solubility in water	:	< 10 gm/ litre
Partition coefficient; n- octanol / water	:	Not available
Auto-ignition temperature	:	Not applicable
Decomposition temperature: SADT	:	Not available
Viscosity	:	Not available

Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available
Chemical stability	:	The product is stable
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur
Conditions to avoid	:	No specific data
Incompatible materials	:	No specific data
Hazardous decomposition Products'	:	Under normal conditions of storage and use, hazardous decomposition should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity :

Product / ingredient name	Result	Species	Dose	Exposure
(+)- tartaric acid	LD50 Dermal	Rabbit	>5001 mg/kg	-
	LD50 Oral	Rat	>2001 mg/kg	-

Irritation / Corrosion	:	Not available
Sensitisation	:	Not available
Mutagenicity	:	Not available
Carcinogenicity	:	Not available
Reproductive toxicity	:	Not available
Teratogenicity	:	Not available



Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Tartaric acid, quartz, cement, chemicals	Category 3	Not applicable	Respiratory system

Specific target organ toxicity (repeated exposure)

Not available

Aspiration hazard

Name	Result
Tartaric acid, quartz, cement, chemicals	ASPIRATION HAZARD – Category 1

Information on the likely routes of exposure

: Not available

Potential acute health effects

- Eye contact** : Causes serious eye irritation
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation
- Skin contact** : Causes skin irritation
- Ingestion** : Can cause central nervous system (CNS) depression. Irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:
- Pain or irritation
 - Watering
 - redness
- Inhalation** : Adverse symptoms may include the following:
- respiratory tract irritation
 - coughing
 - nausea or vomiting
 - headache
 - drowsiness / fatigue
 - dizziness / vertigo
 - unconsciousness
- Skin contact** : Adverse symptoms may include the following:
- irritation
 - redness
- Ingestion** : No specific data

Delayed and immediate effects and also chronic effects from short and long term exposure



Short term exposure

Potential immediate effects : Not available

Potential delayed effects : Not available

Long term exposure

Potential immediate effects : Not available

Potential delayed effects : Not available

Potential chronic health effects

General : No known significant effects or critical hazards

Carcinogenicity : No known significant effects or critical hazards

Mutagenicity : No known significant effects or critical hazards

Teratogenicity : No known significant effects or critical hazards

Developmental effects : No known significant effects or critical hazards

Fertility effects : No known significant effects or critical hazards

Numerical measures of toxicity

Acute toxicity estimates : Not available

Section 12. Ecological information

Toxicity : (+)- tartaric acid:
Toxicity to fish: LC50: > 100mg/l : exposure 96 hrs
Toxicity to daphnia etc. LC50: 93.3 mg/l: exposure 48 hrs

Persistence and degradability : Not available

Bioaccumulative potential : Not available

Mobility in soil

Soil / water partition Coefficient (K_{oc}) : Not available

Other adverse effects : No known significant effects or critical hazards



Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licenced waste disposal contractor. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

Regulation	UN number	Proper shipping name	Classes	PG*	Label	Additional information
ADG	Not regulated		-	-		-
ADR	Not regulated		-	-		-
IMDG	Not regulated		-	-		-
IATA	Not regulated		-	-		-

PG* : Packing group

Section 15. Regulatory information

Safety, health and environmental regulations specific for the product :

No known specific national and/or regional regulations applicable to this product

Standard Uniform Schedule of Medicine and Poisons

Not regulated



Control of Scheduled Carcinogenic Substances

Australian inventory (AICS): All components are listed or exempted
EU Classification : Not classified
HCS Classification : Carcinogen, target organ effects

Section 16. Other information

History

Date of Printing : 27/12/2017
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Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of classification
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Marine Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978 (Marpol = marine pollution)
UN = United Nations

Notice to reader

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