



Designer Concrete Crushed Glass

Safety Data Sheet according to WHS and ADG requirements:

Issue Date: 24 February 2017

SECTION 1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier:

| | |
|---------------------------------------|--------------------------------------|
| Product Name: | Designer Concrete Crushed Glass |
| Product Code: | Not Available |
| Other means of identification: | Burwell Crushed Glass Blasting Media |

Relevant identified uses of the substance or mixture and uses advised against:

Slip hazard reduction media cast-in-place over freshly applied co-polymer acrylic concrete sealers to augment slip resistance on concrete flatwork surfaces usually associated with hilly residential locations and/or exposed concrete flatwork surfaces susceptible to pedestrian slip hazard when wet.

Details of the supplier of the safety data sheet:

| | |
|---------------------------------|--|
| Registered Company Name: | Designer Concrete Coatings Pty Ltd |
| Address: | 19 Liverpool Street, Ingleburn, NSW, 2565, Australia |
| Telephone: | +61 2 9829 3311 |
| Fax: | +61 2 9829 3544 |
| Website: | www.designerconcrete.com.au |
| Email: | sales@designerconcrete.com.au |

Emergency telephone number:

| | |
|---|--|
| Association / Organisation: | Not Available |
| Emergency telephone number: | Australia: (02) 9792 2733 (Business Hours) |
| Other emergency telephone numbers: | Australia: 000 (24-hours) |

SECTION 2: HAZARDS IDENTIFICATION

This material is not classified as hazardous according to health criteria of Safe Work Australia; and, according to Approved Criteria for Classifying Hazardous substances [NOHSC: 1008 (2004)] However, caution must still be taken in handling and storage for health & safety.

Signal Word: **Not Applicable:** GHS Label Elements: **Not Applicable:**

Hazard Classification:

Flammable Liquids – Not Applicable
Aspiration Hazard – Not Applicable
Skin Corrosion / Irritation – Not Applicable
Serious eye damage / irritation – Not Applicable
Toxic to reproduction – Not Applicable
Specific Target Organ Toxicity (Single Exposure) – Not Applicable
Specific Target Organ Toxicity (Repeated Exposure) – Not Applicable
Poisons Schedule Aust – Not Applicable

Hazard Statement(s)

| | |
|------|----------------|
| H225 | Not Applicable |
| H304 | Not Applicable |
| H315 | Not Applicable |
| H318 | Not Applicable |
| H336 | Not Applicable |
| H361 | Not Applicable |
| H373 | Not Applicable |

Precautionary Statement(s) Prevention

| | |
|------|---|
| P102 | Keep out of reach of children |
| P103 | Read label before use |
| P201 | Obtain special instruction before use |
| P202 | Do not handle until all safety precautions have been read and understood |
| P210 | Not Applicable |
| P233 | Keep container tightly closed |
| P240 | Not Applicable |
| P241 | Not Applicable |
| P242 | Not Applicable |
| P243 | Not Applicable |
| P260 | Do not breath dust |
| P264 | Wash hands, face and all exposed skin thoroughly after handling |
| P271 | Use only outdoors or in a well-ventilated area |
| P280 | Wear protective clothing, gloves, eye / face protection and suitable respirator as required |

Precautionary Statement(s) Response

| | |
|--------------|---|
| P101 | If medical advice is needed, have product container or label on hand |
| P301+310 | If SWALLOWED: Immediately call Poison Centre or doctor/physician |
| P331 | Do NOT induce vomiting |
| P302+352 | If ON SKIN: Wash with soap and water |
| P303+361+353 | If ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower |
| P304+340 | If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing |
| P312 | Call doctor / physician if you feel unwell |
| P305+351+338 | If IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing |
| P363 | Wash contaminated clothing before re-use |
| P337+313 | If eye irritation persists seek medical advice / attention |
| P370+378 | Not relevant to this material. |

Precautionary Statement(s) Storage

| | |
|----------|-----------------|
| P405 | Store locked-up |
| P403+235 | Not Applicable |

Precautionary Statement(s) Disposal

| | |
|-------------------|--|
| Poisons Schedule: | Not Applicable |
| P501 | Dispose of contents / container in accordance with local, regional, national and international regulations |

DANGEROUS GOODS CLASSIFICATION:

NOT classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail; and, the New Zealand NZS5433: Transport of Dangerous Goods on Land"

CLASS: Not Applicable

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

| | |
|---|---|
| Chemical identity of the pure substance: | Not Applicable. |
| Common Names / Synonyms: | Glass shards, glass abrasive, glass filer. |
| CAS Number: | Not Available |
| Chemical Composition: | SiO ₂ >70% |
| | Na ₂ O, K ₂ O, Al ₂ O ₃ , Fe ₂ O ₃ combined 18% |
| | CaO and MgO combined >8% |
| | H ₂ O <1% |

SECTION 4: FIRST AID MEASURES

Facilities should be available where this product is used to carry out first aid procedures.

Description of Necessary First Aid Measures:

Inhalation:

Inhalation of dust from this product may have an immediate or delayed effect to irritate, inflame or sensitise the nose, throat and lungs; and, exacerbate pre-existing conditions such as asthma and bronchitis. Children, pregnant women, the elderly, people with pre-existing conditions or the immunocompromised, may be at a particular risk from these illnesses if exposed to this product.

If an irritation occurs, the affected parties should be moved (or move themselves) away from the product or its dusts into a source of fresh air. Prostheses such as false teeth, which may block the airways, should be removed where possible prior to initiating first aid procedures. Professional medical attention should be sought if symptoms persist.

Skin Contact:

Skin contact with this product and /or their dusts may lead to immediate or delayed skin irritations and in susceptible people skin sensitisation, dermatitis and/or skin infection.

The affected areas should be washed thoroughly with mild soap and lukewarm water as quickly as possible.

Eye Contact:

In the event that this material comes into contact with the eyes it may have an immediate or delayed irritating effect resulting in redness, watering and/or infection.

Eyes should be immediately and thoroughly flushed with lukewarm water for as long as necessary to alleviate the problem (or for at least 15-minutes). Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Removal of contact lenses after an eye injury should only be conducted. Professional medical assistance should be sought if symptoms persist.

Ingestion:

Non-toxic however swallowing this product may cause immediate or delayed abdominal discomfort and potentially increase the risk of gastro-intestinal infections.

The patient should be given water to drink and medical attention should be sought if any abdominal symptoms occur. Vomiting should not be induced, but if vomiting occurs the patient should be leant forward or placed on their left hand side to maintain an open airway.

PPE for First Aiders:

Wear overalls, safety glasses and impervious gloves. Refer to Section 7: Precautions for Safe Handling.

Medical Attention:

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES:

Extinguishing Media:**Suitable Extinguishing Equipment:**

Not Relevant

Specific Hazards / Hazards from Combustible Products:

Not Relevant

Fire Fighting Further Advice:

Not Relevant

Special Protective Equipment and Precautions for Fire Fighters:

Wear breathing apparatus when fighting fire (as for other material present).

Hazchem Code: Not Applicable

SECTION 6: ACCIDENTAL RELEASE MEASURES:

Emergency Procedures:

In the event of a spill or release of the product from transport vehicle or storage area in a sensitive environment including near water bodies:

1. Advise the applicable state-based road authority
2. Advise the applicable state-based environment body
3. Advise the product manufacturer/supplier emergency contact: (02) 9792 2733 (Business Hours) 0418 699 139 (After Hours) [Quote Crushed Glass Blasting Media]

Methods and Materials for Containment and Clean-Up Procedures:

In the event of a spill or release of the product from a transport vehicle or storage area where bunding does not exist in order to contain and clean up:

Secure the site by:

- Covering the material with a sheet or tarpaulin secured to the ground in order to protect against dust emissions and gravitational flows into waterways.
- Bunding the area and cover drains to protect against over-ground run-off into waterways, surrounding land and drainage systems.
- Clean up the spill immediately once the site is secured. Avoid generating dust.
- Collect the material (using a vacuum system if required), load, transport and store all of the material released for used as planned or dispose of safely in a landfill or licensed recovery facility.
- Check the surrounding area to ensure all material has been captured. Collect all material if possible or seek advice from state-based environment body.

Dangerous Goods – Initial Emergency Response Guide Not Applicable

SECTION 7: HANDLING AND STORAGE:

Precaution(s) for Safe Handling:

This product is abrasive. When handling this material ensure that workers stay away from equipment that is moving and/or processing exposed material and avoid coming into contact with the product by wearing:

- A suitable respiratory protective device conforming to AS/NZS 1715:2009 – Selection, use and maintenance of respiratory protective devices. A Class P1 Particulate Respirator is typically most appropriate.
- Suitable gloves conforming with AS/NZS 2161:2008 – Occupational Protective Gloves. Standard duty leather/pigskin, rubber or neoprene gloves are typically most appropriate.
- Full length protective trousers and shirts (or overalls).
- Suitable boots for the site.
- Suitable eye protection conforming with AS/NZS 1336: 1997 – Recommended practises for occupational eye protection. Low impact goggles with direct ventilation (HT or CT with C, D optional) are typically most appropriate

Additional Safe Handling Procedures Should Include:

- Limit exposure to the product
- Wash any areas of the body that the product may have come into contact after exposure.
- Regularly vacuum enclosed areas where the product is used or install a dust extraction system.
- When handling this material ensure the environment is protected from releases by not moving the material during adverse weather conditions such as wind and precipitation, bunding the handling area and providing wind breaks.
- As with all dust materials, ensure adequate ventilation against the relevant exposure standards (Section 8) and also to prevent dust explosions.
- Shower and change after completion of product use for its intended purpose.
- Wash hands and face after handling and after completion of product use for its intended purpose.

Conditions for Safe Storage:

When storing this material:

- Store in closed containers or well ventilated areas to prevent dust exposure

This material is **NOT classified as a Dangerous Good** under the criteria of Australian Dangerous Goods Code.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION:

National Exposure Standards:

No specific exposure standards have been allocated. However due to dust in the product, concentrations for monitoring exposure are provided by a number of standards as listed below:

Control Parameters:

| | TWA ¹ | | STEL ² | |
|---|------------------|-------------------|-------------------|-------------------|
| | ppm | mg/m ³ | ppm | mg/m ³ |
| Total Inhalable Dust | - | 10 | - | - |
| National Health and Safety Commission, 2004 | | | | |

¹Time Weighted Average concentration

²Short-Term Exposure Limit.

These exposure guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentration of dust. They are not a measure of relative toxicity. If the direction for use stated on the product label is followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers' routinely, potentially exposed during product manufacture.

Total Respiratory Dust:

2mg/m³ (American Conference of Government Occupational Hygienists, 1986)

Biological Limit Values:

As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

Engineering Controls:

Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use with local exhaust ventilation or while wearing appropriate respirator. DO NOT enter confined spaces where inhalable dust may have collected

Exposure Controls:**Personal Protection Equipment (PPE).****G: OVERALL; SAFETY SHOES; SAFETY GLASSES; GLOVES; RESPIRATOR.**

PPE: If used as a blasting media, wear abrasive blast helmet, air line respirator with protective lens (AS/NZS 1716:2003). Heavy duty protective suit, gloves (AS/NZS 2161:2008) and foot wear (AS/NZS 2210.5: 2009).

Hygiene Measures:

Keep away from foodstuffs, drink and animal foodstuffs & feeding troughs. When using the material, do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid skin and eye contact and inhalation of dust. Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES:

| Property | Unit of Measurement | Typical Value |
|------------------------|---------------------|--------------------|
| Appearance | Not Applicable | White Powder |
| Odour | Not Applicable | Odourless |
| Solubility | Not Applicable | Insoluble in water |
| Vapour Pressure @ 25°C | kPa | Not Applicable |
| Boiling Point | °C | Not Applicable |
| % Volatile by Volume | % | Not Applicable |

| | | |
|-------------------------------------|---------|-------------------|
| Melting Point / Range | °C | Softens above 600 |
| Auto Ignition Temperature | °C | Not Applicable |
| Decomposition Point | °C | None Identified |
| Flash Point | °C | Not Applicable |
| Specific Gravity (Relative Density) | - | 1393 |
| Flammability Limits | % (v/v) | Not Applicable |
| Volatile Content | % (w/w) | Not Applicable |
| pH | - | Neutral 7-9 |

SECTION 10: STABILITY AND REACTIVITY

Reactivity:

No reactivity hazards are known for the material. Refer to Section 7.

Chemical Stability:

This material is stable when stored and used in accordance with this Safety Data Sheet and directions on the product label.

Conditions to Avoid:

None Identified

Incompatible Materials:

None Identified

Hazardous Decomposition Products:

None Identified

Hazardous Reactions:

None Identified

SECTION 11: TOXICOLOGICAL INFORMATION:

Acute Health Effects:

Ingestion:

Ingestion is unlikely through normal use. However, swallowing any amount of this product may cause immediate or delayed abdominal discomfort due to abrasion.

It is not recommended to repeatedly swallow this product.

Eye Contact:

In the event that any dose of this material or dust comes into contact with the eyes it may have an immediate or delayed irritating effect resulting in redness and watering or an infection.

It is not recommended to repeatedly allow this material to come into contact with the eyes.

Skin Contact:

Any level of skin contact with this product and/or their dusts may lead to immediate or delayed skin irritations and in susceptible people with sensitive skin, dermatitis or skin infection.

It is not recommended for people susceptible to skin irritations to repeatedly allow this material to come into contact with the skin.

Inhalation:

Inhalation of large amounts of dust from this product may have an immediate or delayed effect to irritate, inflame or sensitise the nose, throat and lungs, and exacerbate pre-existing conditions such as asthma and bronchitis

It is not recommended for people to repeatedly inhale this material.

Chronic Health Effects:

The repeated inhalation of dust from this product may lead to respiratory irritation, inflammation or sensitisation and illness such as asthma and bronchitis. Children, pregnant women, the elderly, people with pre-existing conditions or the immunocompromised, may be at particular risk from these illnesses if exposed to this product.

Contact with this product outside of intended use is not recommended.

SECTION 12: ECOLOGICAL INFORMATION:

Acute Aquatic Hazard:

This material has been classified as non-hazardous

Long-Term Aquatic Hazard:

This material has been classified as non-hazardous

Ecotoxicity:

None Identified

Persistence and Degradability:

No information is available.

Bioaccumulation Potential:

No information is available.

Mobility:

Not Applicable

SECTION 13: DISPOSAL CONSIDERATIONS:

Disposal Methods: If possible, accumulated dust should be removed using wet cleaning methods; or, High Efficiency Particulate Air (HEPA) filter vacuum methods. Suitable landfill or facility with an approval to reuse this material.

Special Precautions for Landfill or Incineration: Not Relevant.

SECTION 14: TRANSPORT INFORMATION:

Road & Rail Transport:

Classified as NOT a Dangerous Goods by criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail and the New Zealand NZS5433: Transport of Dangerous Goods on Land.

| | |
|---------------|-----------------------|
| UN No: | None Allocated |
|---------------|-----------------------|

| | |
|--|----------------|
| Proper Shipping Name: | None Allocated |
| DG Class: | None Allocated |
| Subsidiary Risk: | Not Applicable |
| Packaging Group: | Not Applicable |
| Hazchem Code: | Not Applicable |
| Initial Emergency Response Guide: | Not Applicable |

Precautionary Measures: Not to be loaded with explosives (Class 4); Flammable gasses (Class 2.1), if both are in bulk: Toxic gasses (Class 2.3); Spontaneous combustible substances (Class 4.2); Oxidising agents (Class 5.1); Organic peroxides (Class 5.2); or, Radioactive substances (Class 7) albeit some exemptions may apply.

Other Special Storage or Transport Information: Transport in covered container and avoid exposure to wind to prevent dust release into surroundings.

Marine Transport:

Classified as NOT Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code.

| | |
|------------------------------|----------------|
| UN No: | None Allocated |
| Proper Shipping Name: | None Allocated |
| DG Class: | Not Applicable |
| Packaging Group: | Not Applicable |

Air Transport:

Classified as NOT Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for Transport by Air.

| | |
|------------------------------|----------------|
| UN No: | None Allocated |
| Proper Shipping Name: | None Allocated |
| DG Class: | Not Applicable |
| Packaging Group: | Not Applicable |

SECTION 15: REGULATORY INFORMATION:

None Applicable.

SECTION 16: OTHER INFORMATION:

Revision Requirement: Information updates of all sections to comply with Code of Practice Safe Work Australia December 2011.

Abbreviations:

ADG: Australian Code for Transport of Dangerous Goods by Road and Rail.

CAS Number: Chemical Abstracts Number.

HMIS: Hazardous Materials Identification System.

TWA: Time - Weighted Average airborne concentration over an 8-hour working day, for 5-day working week over an entire working life.

STEL: Short-Terms Exposure Limit; the average airborne concentration over a 15-minute period which should NOT be exceeded at any time during a normal -8-hour working day.

Disclaimer:

This Safety Data Sheet (SDS) has been prepared to the best belief of the manufacturer as to its accuracy and reliability as at the date of issue. No warranty expressed or implied is made as to its full reliability or completeness but is considered the appropriate information required by the user in the context of how the product must be handled and used in the workplace and including in conjunction with other products or materials present. Since the manufacturer cannot anticipate or control the conditions under which this information may or will be used, it is the user's responsibility to determine the safety, risk and fitness-for-purpose of the product under the conditions and environment where the product is intended to be used; and, responsibility to ensure that the SDS issue date is current. This information given is a non-controlled document and Designer Concrete Coatings Pty Ltd shall not be liable for personal injury or property damage associated with use or misuse of the product.