# SAFETY DATA SHEET

According to
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

## Section 1: Identification of the material and the supplier

| | |
|---|---|
| Product: | **Recycled Crushed Concrete** |
| Product Use: | Construction Products |
| Restriction of Use: | Refer to Section 15 |
| New Zealand Supplier: | **Downer Group NZ** |
| Address: | 39-59 Miami Parade<br>Onehunga |
| Telephone: | +64 9 251 0340 |
| **Emergency No:** | **0800 764 766 (National Poison Centre)** |
| Date of SDS Perparation: | 28 August 2024 |

## Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

| | |
|---|---|
| **EPA Approval No:** | **Construction Products (Subsidiary) – HSR002544** |

**Pictograms**

IRRITANT

CHRONIC

Signal Word: **Warning**

| GHS Classification and Category | Hazard Code | Hazard Statement |
|---|---|---|
| Skin sensitisation Cat. 1 | H317 | May cause an allergic skin reaction. |
| Specific target organ toxicity – repeated exposure Cat. 2 | H373 | May cause damage to organs through prolonged or repeated exposure. |

| Prevention Code | Prevention Statement |
|---|---|
| P103 | Read carefully and follow all instructions. |
| P260 | Do not breathe dust, fumes, gas, mist, vapours or spray. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P280 | Wear protective clothing as detailed in Section 8. |

| Response Code | Response Statement |
|---|---|
| P314 | Get medical advice/attention if you feel unwell. |
| P363 | Wash contaminated clothing before reuse. |
| P302 + P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P280 | Wear protective clothing as detailed in Section 8. |

| Storage Code | Storage Statement |
|---|---|
| None allocated | |

| Disposal Code | Disposal Statement |
|---|---|
| P501 | Dispose of according to Local Regulations or Authorities |

## Section 3. Composition / Information on Hazardous Ingredients

| Ingredients | Wt% | CAS NUMBER. |
|---|---|---|
| Aggregate, Sand, crush stone or gravel or slag, quartz, VENM containing crystalline silica (quartz), | 30 to 90% | 14808-60-7 |
| Portland Cement | 1-50 | 65997-15-1 |
| Water | 2-30 | 7732-18-5 |
| Ashes, Residue (Flyash) | Up to 20% | 68131-74-8 |
| Gypsum (CaSO4.2H2O) | Up to 10% | 6599-69-2 |
| Limestone (CaCO3) | Up to 10% | 1317-65-3 |
| Hexavalent Chromium (Contaminant) | 2 to 20ppm | Not Available |

*Notes:*

1. *Depending upon the source material, may contain varying amounts of respirable quartz (crystalline silica).*
2. *Chromium VI is a trace impurity in Portland Cement.*
3. *Although rare, may contain trace amounts (<0.01%) of Respirable Elongated Mineral Particulates. The levels detected are determined to be well below the threshold level.*

## Section 4. First Aid Measures

| Routes of Exposure: | |
|---|---|
| If in Eyes | Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice. |
| If on Skin | Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. |
| If Swallowed | Do not induce vomiting. Wash out mouth thoroughly with water. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Seek medical attention if needed. |
| If Inhaled | Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult. |

| Most important symptoms and effects, both acute and delayed | |
|---|---|
| Symptoms: | |
| **Ingestion:** | Not applicable |
| **Inhalation:** | Coughing, wheezing, shortness of breath |
| **Skin:** | Redness, rash, itchiness |
| **Eye:** | Redness, lacrimation |

| Section 5. Fire Fighting Measures | |
|---|---|
| **Hazard Type** | Non Flammable |
| **Hazards from combustion products** | Not applicable |
| **Suitable Extinguishing media** | Use an extinguishing agent suitable for the surrounding fire. |
| **Precautions for firefighters and special protective clothing** | Treat as per requirements for surrounding fires. Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas. |
| **HAZCHEM CODE** | **None Allocated** |

## Section 6. Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures**

Wear Personal Protective Equipment (PPE) as detailed in Section 8 of this SDS. Clear area of all unprotected personnel.
Ventilate area where possible. Contact emergency services where appropriate.

**Environmental precautions**

Prevent product from entering drains and waterways.

**Methods of cleaning up**

Contain spillage, keep moist and place in suitable containers for disposal or reapplication. Within enclosed environments clean spill site using wet methods or an approved industrial vacuum device. Avoid generating dust.

**Reference to other sections**

See Sections 8 and 13 for exposure controls and disposal.

## Section 7. Handling and Storage

**Precautions for Handling:**

- Before use carefully read the SDS. The use of safe work practices are recommended to avoid eye or skin contact and inhalation.
- Do not breathe dust, fumes, gas, mist, vapours or spray.
- Contaminated work clothing should not be allowed out of the workplace.
- Wear protective clothing as detailed in Section 8.

**Precautions for Storage:**

- Store away from incompatible materials listed in Section 10.

## Section 8. Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

| Substance | TWA ppm | mg / m³ | STEL ppm | Mg / m³ |
|---|---|---|---|---|
| Crystalline Silica (quartz and cristobalite) | - | 0.1 | - | - |
| Chromium V compounds | - | 0.05 | - | - |
| Portland cement | - | 10 | - | - |

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices Nov 2023 14TH EDITION.

### Engineering Controls

Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain Quartz (Crystalline Silica) levels below the recommended exposure standard.

### Personal Protection Equipment

| | |
|---|---|
| **Eyes** | Wear safety glasses or dust-proof goggles when handling material to avoid contact with eyes. |
| **Hands** | Wear PVC, rubber or cotton gloves when handling material to prevent skin contact. |
| **Skin** | Wear long sleeved shirt and full-length trousers. |
| **Respiratory** | Where an inhalation risk exists wear a Class P1 (Particulate) respirator, dependent on a site specific risk assessment. |
| **General** | Observe good personal hygiene, including washing hands before eating. |

## Section 9. Physical and Chemical Properties

| | |
|---|---|
| **Appearance** | Solid |
| **Colour** | Greyish |
| **Odour** | Not available |
| **Odour Threshold** | Not available |
| **pH** | 7 - 12 |
| **Boiling Point** | Not available |
| **Melting Point** | > 1200°C |
| **Freezing Point** | Not available |
| **Flash Point** | Not available |
| **Flammability** | Not flammable |

| Physical and Chemical Properties Continued | |
|---|---|
| **Upper and Lower Explosive Limits** | Not available |
| **Vapour Pressure** | Not available |
| **Vapour Density** | Not available |
| **Specific Gravity** | 2.32 |
| **Water Solubility** | Insoluble |
| **Partition Coefficient:** | Not available |
| **Auto-ignition Temperature** | Not available |
| **Decomposition Temperature** | Not available |
| **Kinematic Viscosity** | Not available |
| **Particle Characteristics** | Not available |

## Section 10. Stability and Reactivity

| | |
|---|---|
| **Stability of Substance** | This product is stable under normal conditions. |
| **Possibility of hazardous reactions** | Polymerization will not occur. |
| **Conditions to Avoid** | Avoid wetting product to a point of slurry.<br>Avoid dust generation. |
| **Incompatible Materials** | Incompatible with oxidising agents (eg. hypochlorites) and strong acids (eg. hydrofluoric acid). |
| **Hazardous Decomposition Products** | May evolve toxic gases if heated to decomposition (>1200°C). |

## Section 11. Toxicological Information

| Acute Effects: | |
|---|---|
| Swallowed | This product is not classified as acutely toxic. |
| Dermal | This product is not classified as acutely toxic. |
| Inhalation | This product is not classified as acutely toxic. |
| Eye | This product is not classified an eye irritant/corrosive. |
| Skin | May cause an allergic skin reaction. |

| Chronic Effects: | |
|---|---|
| Carcinogenicity | This product is not classified as carcinogenic. |
| Reproductive Toxicity | This product is not classified as toxic for reproduction. |
| Germ Cell Mutagenicity | This product is not classified as mutagenic. |
| Aspiration | This product is not classified as Asp Tox. |
| STOT/SE | This product is not classified as STOT SE. |
| STOT/RE | May cause damage to organs through prolonged or repeated exposure. |

## Section 12. Ecotoxicological Information

The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

| **Product:** | |
|---|---|
| Persistence and degradability | No data available |
| Bioaccumulation | No data available |
| Mobility in Soil | No data available |
| Other adverse effects | No data available |

## Section 13. Disposal Considerations

**Disposal Method:**

Reuse or recycle where possible. Alternatively, ensure product is kept moist to prevent dust generation and dispose of within an approved landfill site. Contact the manufacturer for additional information.

**Precautions or methods to avoid:**

Avoid release to the environment.

## Section 14. Transport Information

**This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2020 and SNZ HB 5433:2021**

## Section 15. Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: Construction Products (Subsidiary) – HSR002544

GHS Classification:

| **HSW (HS) Regulations 2017 and EPA Notices** | **Trigger Quantity** |
|---|---|
| Certified Handler | Not required |
| Location Certificate | Not required |
| Tracking Trigger Quantities | Not required |
| Signage Trigger Quantities | Not required |
| Emergency Response Plan | 1000 kg |
| Secondary Containment | 1000 kg |
| Restriction of Use | Only use for the intended purpose |

## Section 16. Other Information

| Glossary | |
|---|---|
| Cat | Category |
| $EC_{50}$ | Median effective concentration. |
| EEL | Environmental Exposure Limit. |
| EPA | Environmental Protection Authority |
| HSNO | Hazardous Substances and New Organisms. |
| HSW | Health and Safety at Work. |
| $LC_{50}$ | Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it. |
| $LD_{50}$ | Lethal dose to kill 50% of test animals/organisms. |
| LEL | Lower explosive level. |
| OSHA | American Occupational Safety and Health Administration. |
| TEL | Tolerable Exposure Limit. |
| TLV | Threshold Limit Value-an exposure limit set by responsible |
| UEL | Upper Explosive Level |
| WES | Workplace Exposure Limit |

**References:**


1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2023 14th edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017


**Disclaimer**

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd 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. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact the New Zealand distributor, if further information is required.

**Issue Date:** 28 August 2024
**Review Date:** 28 August 2029