

SAFETY DATA SHEET

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

Section 1: Identification of the material and the supplier

Product:	Crushed Basalt
Product Use:	Construction Products
Restriction of Use:	Refer to Section 15
New Zealand Supplier:	Downer Group NZ
Address:	39-59 Miami Parade Onehunga
Telephone:	+64 9 251 0340
Emergency No:	0800 764 766 (National Poison Centre)
Date of SDS Preparation:	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 (Carcinogenic) – HSR002551

Pictograms



CHRONIC

Signal Word: **DANGER**

GHS Classification and Category	Hazard Code	Hazard Statement
Carcinogenicity Cat. 1	H350	May cause cancer via inhalation
Specific target organ toxicity – repeated exposure Cat. 1	H372	Causes damage to organs through prolonged or repeated inhalation exposure.

Prevention Code	Prevention Statement
P103	Read carefully and follow all instructions.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust, fumes, gas, mist, vapours or spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P281	Use personal protective equipment as required.

Response Code	Response Statement
P314	Get medical advice/attention if you feel unwell.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.

Storage Code	Storage Statement
P405	Store locked up.

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

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Basalt which may include the following constituents	NA	100%
Crystalline silica	14808-60-7	Up to 60%
Non-hazardous silicates and oxides	Not known	balance

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	Flammable / Non Flammable / Combustible
Hazards from combustion products	Product does not burn. Dust may form irritating atmosphere. Product will react exothermically with water. Contaminated water will be strongly alkaline. Product may decompose in a fire and produce toxic or corrosive fumes.
Suitable Extinguishing media	Use extinguishing media suitable for surrounding materials
Precautions for firefighters and special protective clothing	Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection.
HAZCHEM CODE	None Allocated

Section 6. Accidental Release Measures

Containment

Emergency plans to manage any potential spills must be in place.

Emergency procedures

In the event of large spillage alert the fire brigade to location and give brief description of hazard. Wear protective equipment to prevent respiratory exposure. Clear area of any unprotected personnel. Sweep up the solid. Avoid creating dust. If appropriate, use a gentle water spray to wet material to minimise dust generation.

Clean-up method

Collect and seal in properly labelled containers or drums for disposal or recycling.

Disposal

Sweep up and collect recoverable material into labelled containers for recycling or salvage. This material may be suitable for approved landfill. Dispose of only in accord with all regulations.

Precautions

Wear protective equipment to prevent the inhalation of dusts. Work up wind or increase ventilation.

Section 7. Handling and Storage

Precautions for Handling:

- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use personal protective equipment as required.

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 / m ³	STEL ppm	Mg / m ³
Crystalline Silica (quartz and cristobalite)	-	0.1	-	-

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

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.

Personal Protection Equipment



Eyes	Protective eyewear is not normally necessary when using this product. However, it is always prudent to use protective eyewear if dust is likely.
Hands	Wear impervious gloves. Replace frequently. Gloves should be checked for tears or holes before use.
Skin	Avoid repeated or prolonged skin contact. Wear overalls, rubber boots
Respiratory	To prevent irritation a well fitted dust mask should be used (this is not recommended when exposure is close to the WES). A fine particulate half or full face respirator with an effective seal is recommended when airborne concentrations approach the WES (section 8). If sanding, grinding, crushing or cutting material contain sand, it is possible that the silica dust WES will be exceeded hence a respirator will be required.
General	Remove protective clothing and wash exposed areas with soap and water prior to eating, drinking or smoking. Wash contaminated clothing before re-use.

Section 9. Physical and Chemical Properties

Appearance	Powder or fine granules
Colour	varying
Odour	Not available
Odour Threshold	Not available
pH	Not available
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity	Not available
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	Not available
Conditions to Avoid	Containers should be kept closed in order to avoid contamination. Avoid the creation of dust.
Incompatible Materials	Strong oxidisers
Hazardous Decomposition Products	Not available

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 as an eye irritant/corrosive.
Skin	This product is not classified as a skin irritant/corrosive.

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

Restrictions

There are no product-specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents.

Disposal Method:

Disposal of this product must comply with the Hazardous Substances (Disposal) Notice 2017 and the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore rendered non-hazardous before discharge to the environment.

Contaminated packaging

Disposal of contaminated packaging must comply with the Hazardous Substances (Disposal) Notice 2017 clause 12. Ensure that the package is rendered incapable of containing any substance and is disposed in a manner that is consistent with the requirements of the substance it contained and the material of the package. If possible, reuse or recycle packaging.

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 (Carcinogenic) – HSR002551

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

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

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