

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **Degafiller 420**
 Product Use: Main applications (non-exhaustive list): special concrete, construction chemicals
 Restriction of Use in NZ: Refer to Section 15

Company Name: **Degafloor NZ**
 Address: 6 Sheffield Street
 Levin, 5510

Telephone: +64 6 367 9799
 E-mail: orders@degafloor.nz
Emergency No: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 15 September 2020

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval No: Surface Coatings and Colourants (subsidiary) – HSR002670

Pictograms



Chronic

Signal Word: **DANGER**

Depending on the type of handling and use (e.g. grinding), airborne fine fraction of crystalline silica may be generated. Prolonged and/or massive inhalation of fine fraction of crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness.

Occupational exposure to fine fraction of crystalline silica dust should be monitored and controlled.

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.9A	H372	Causes damage to lungs through prolonged or repeated exposure via inhalation	STOT RE 1

Prevention Code	Prevention Statement
P103	Read label before use.
P260	Do not breathe dust.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.

Response Code	Response Statement
P314	Get medical advice/attention if you feel unwell.

Storage Code	Storage Statement
None allocated	Store locked up.

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

Section 3. Composition / Information on Hazardous Ingredients
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Ingredients	Wt%	CAS NUMBER.
Quartz sand	0 - 75	14808-60-7
Quartz flour	25 - 100	14808-60-7
Mineral raw materials	0 - 75	-

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Don't chafe for avoiding damage of cornea. If necessary, remove contact lenses. Rinse with copious quantities of water. If available, use isotonic flushing solution (0.9 wt.-% Sodium chloride). If irritation persists, seek medical attention

If on Skin Wash skin thoroughly with soap and water. Get medical advice/attention.

If Swallowed Never give anything by mouth to an unconscious person. Clean mouth with water and drink afterwards plenty of water. 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: Causes damage to lungs through prolonged or repeated exposure via inhalation

Section 5. Fire Fighting Measures
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Hazard Type	Non Flammable or non-combustible.
Hazards from products	No hazardous thermal decomposition.
Suitable Extinguishing media	No specific extinguishing media is needed.
Precautions for firefighters and special protective clothing	No special measures required.
HAZCHEM CODE	None allocated

Section 6. Accidental Release Measures

Personal precautions:

Use protective clothing as detailed in Section 8. Keep out unprotected persons. Avoid dust formation.

Environmental precautions:

No special precautions.

Spill and Disposal procedures:

Avoid dry sweeping and use water spraying or vacuum cleaning systems to prevent airborne dust generation. Dispose according to Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- Do not breathe dust.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid airborne dust generation.
- Provide appropriate exhaust ventilation at places where airborne dust is generated. In case of insufficient ventilation, wear suitable respiratory protective equipment, e.g. EN 149.
- Handle packaged product carefully to prevent accidental bursting.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Minimize airborne dust generation and prevent wind dispersal during loading and unloading.
- Keep containers closed and store packaged products so as to prevent accidental bursting.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Respirable crystalline silica dust: 8 hours	1	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 2019 11TH EDITION.

Engineering Controls

Minimize airborne dust generation. Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below specified exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne particles below the exposure limit. Apply organizational measures, e.g. by isolating personal from dusty areas. Remove and wash soiled clothing.

Personal Protection Equipment



Eyes	Wear safety glasses with side-shields in circumstances where there is a risk of penetrative eye injuries according to EN 166.
Hands	Appropriate protection [e.g. gloves according to EN 374 or nitrile impregnated cotton gloves according to specification EN 374, barrier cream] is recommended for workers who suffer from dermatitis or sensitive skin. Wash hands at the end of each work session.
Skin	No specific requirement. For hands, see below. Appropriate protection (e.g. protective clothing, barrier cream) is recommended for workers who suffer from dermatitis or sensitive skin.
Respiratory	In case of prolonged exposure to airborne dust concentrations, wear respiratory protective equipment that complies with the requirements of European or national legislation.

Section 9 Physical and Chemical Properties

Appearance	Solid (granular/powder)
Colour	Grey-white
Odour	Odourless
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 available
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density (air=1)	Not available
Specific Gravity	Approx. 2,6 – 3,6g/mL
Water Solubility	Solubility in water: negligible Solubility in hydrofluoric acid: yes
Partition Coefficient:	Not available
Auto-ignition Temperature	Not applicable (not pyrophoric - no organo-metallic, organo-semimetal or organo-phosphane bonds or derivatives and no other pyrophoric components).
Minimum ignition temperature:	Not available
Decomposition Temperature	Not available
Dynamic Viscosity	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous reactions	Is inert and not reactive
Conditions to Avoid	No conditions to avoid.
Incompatible Materials	None known.
Hazardous Decomposition Products	No hazardous decomposition products in regular use

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Not applicable.

Eye	Not applicable.
Skin	Not applicable.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Causes damage to lungs through prolonged or repeated exposure via inhalation.
Other information	Prolonged and/or massive exposure to fine fraction of crystalline silica-containing dust may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine fraction particles of crystalline silica. In 1997, IARC (the international Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However it pointed out that not all industrial circumstances, nor all crystalline silica types, were to be incriminated (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol.68, IARC, Lyon, France)

Section 12. Ecotoxicological Information

Quartz is a natural mineral and widely spread on earth and is nontoxic to aquatic organism and could be separated from waste water by settlement.

Persistence and degradability	No data available.
Bioaccumulation	No data available.
Mobility in Soil	Negligible
Other adverse effects	No specific injurious effects are known.

Section 13. Disposal Considerations

Disposal Method:

Where possible, recycling is preferable to disposal. Can be disposed of in compliance with local regulations.

Contaminated Packaging:

Dust formation from residues in packaging should be avoided and suitable worker protection assured. Store used packaging in closed receptacles. Recycling and disposal of packaging should be carried out in compliance with local regulations.

Precautions or methods to avoid: None known.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2012

Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval Code: Surface Coatings and Colourants (subsidiary) – HSR002670

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	10 000 kg (6.9A)
Secondary Containment	10 000 kg (6.9A)
Restriction of Use	Only use for the intended purpose.

Section 16 Other Information

Glossary

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 authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Please contact Degafloor NZ, if further information is required.

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