Aitken Freeman Pty Ltd
Factory 7, 7-9 Brough St, Springvale VIC 3171
PO Box 548, Noble Park VIC 3174
Phone: (03) 9701 3955 Fax: (03) 9701 3956
Internet: www.aitkenfreeman.com
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Safety Data Sheet

1. Product Name: Resiloc F4 Fillers

Identification Silica sand

Company Name Aitken Freeman Pty Ltd
Address Unit 7, 7 – 9 Brough St. Springvale Vic 3171
Contact: Ph. (03) 9701 3955 Fx. (03) 9701 3956

2. Hazard Identification:

HAZARDOUS SUBSTANCE NON-DANGEROUS GOODS

This product contains crystalline silica. Crystalline silica dust is classified as Hazardous

(Australian Safety and Compensation Commission ASCC (formerly NOHSC) Approved Criteria for Classifying Hazardous Substances [NOHSC:1008] 3rd Edition)

The solid product as supplied is classified as non-Hazardous

Dust in/on the supplied product or created when the product is cut, abraded, or crushed contains crystalline silica some of which may be respirable (particles small enough to go into the deep parts of the lung when breathed in)

A proportion of the fine dust in/on the supplied product may be respirable crystalline silica

The following Risk and Safety phrases apply to this product:

Risk Phrases:

R20: Harmful by Inhalation (Applies to dust)

R22: Harmful if Swallowed

R48: Danger of serious damage to health by prolonged exposure through inhalation (Applies to dust)

Safety Phrases:

S22: Do not breathe dust

3. Composition / information on ingredients

All significant constituents are listed below:
Major Ingredients

Name	CAS	Proportion
Sand		
Containing Crystalline Silica (Quartz)	14808-60-7	>50 - 100 %
Mineral and organic impurities	NA	Balance

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4. First Aid Measures

Swallowed Rinse mouth and lips with water. Do not induce vomiting. If symptoms persist, seek medical attention
Eye Flush thoroughly with flowing water, while holding eyelids open, for 15 minutes to remove all traces. If symptoms such as irritation or redness persist, seek medical attention

Skin Remove heavily contaminated clothing. Wash off skin thoroughly with water. Use a mild soap if available. Shower if necessary. Seek medical attention for persistent redness, irritation or burning of the skin

Inhaled Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have a qualified person give oxygen through a face mask if breathing is difficult. If irritation persists seek medical attention

First Aid Facilities Eye wash and normal washroom facilities

Advice to Doctor: Treat symptomatically or consult a Poisons Information Centre

5. Fire fighting measures

Flammability Not flammable or combustible
Hazards from combustion products None

Suitable extinguishing media Not applicable

Special protective precautions and equipment for fire fighters None

Hazchem code None allocated .

6. Accidental Release Measures

Spills
Dust is best cleaned up by vacuum device to avoid making dust airborne. Wetting down before sweeping up dust may be a useful control measure

Recommendations on Exposure Controls / Personal Protection (see Section 8 below) should be followed during spill clean-up if conditions are dusty

7. Handling and storage

Storage Precautions No special storage requirements
Transport Not classified as a Dangerous Goods, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (6th Edition)

Proper Shipping Name None Allocated

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8. Exposure Controls

The following applies to dust from this product:

Exposure Limits

National Occupational Exposure Standard (NES) Australian Safety and Compensation Commission ASCC (formerly NOHSC)

Exposure to dust should be kept as low as practicable, and below the following NES:-

Crystalline silica (quartz): 0.1 mg/m3 TWA (time-weighted average) as respirable dust. Total dust (of any type, or particle size): 10 mg/m3 TWA

Engineering Controls

All work should be carried out in such a way as to minimise dust generation, and exposure to dust.

Mechanical ventilation: Dust extraction and collection may be used, if necessary, to control airborne dust levels.

Work areas should be cleaned regularly.

Personal Protection:

Skin Ensure a high level of personal hygiene is maintained when using this product. That is; always wash hands before eating, drinking, smoking or using the toilet. Remove all contaminated clothing. Wash gently and thoroughly with tepid water and non-abrasive soap. If irritation develops and persists seek medical attention

Eyes Safety glasses with side shields or safety goggles (AS/NZ 1336) or a face shield should be worn

Respiratory Where engineering and handling controls are not enough to minimise exposure to total dust and to respirable crystalline silica, personal respiratory protection may be required.

The type of respiratory protection required depends primarily on the concentration of the respirable crystalline silica dust in the air, and the frequency and length of exposure time. Amount of exertion required during the work, and personal comfort are other considerations in choice of respirator. A suitable P1 or P2 particulate respirator chosen and used in accordance with AS/NZS 1715 and AS/NZS 1716 may be sufficient for many situations, but where high levels of dust are encountered, more efficient cartridge type or powered respirators or supplied-air helmets or suits may be necessary. Use only respirators that bear the Australian Standards mark and are fitted and maintained correctly.

For dust levels approaching or exceeding the NES (see above) a more effective particulate respirator providing a greater protection factor should be worn. Procedures for effective use of respirators should be applied and supervised.

Do not contaminate the home environment with dusty work clothes and shoes. Do not shake out work clothes before laundering.

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9. Physical and Chemical Properties

Appearance	Fine to coarse grains varying in colour from white to yellow.
Odour	None
Ph	7.4
Vapour Pressure	Not determined
Vapour Density	Not determined
Boiling Point/range	Not determined
Freezing/melting point	Not determined
Solubility	Not soluble.
Specific gravity	2.0- 2.7 (water=1)
Flash Point	Not applicable
Upper and lower flammability Limits	Not applicable
Ignition Temp	Not applicable
Particle Size	A proportion of the dust may be respirable (below 10 microns) and if it becomes airborne constitutes an exposure if inhaled.

10 Stability and Reactivity

Chemical Stability Unstable in the presence of incompatible materials See below

Chemical Stability:	Chemically Stable
Condition to avoid:	Dust generation
Incompatible materials:	None
Hazardous Decomposition Products:	None
Hazardous Reactions:	None

Crystalline silica is stable, compatible with other materials, does not polymerise, and will not decompose into hazardous by-products.

11 Toxicological Information

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Health Effects:

Acute (short term) -

Swallowed	Unlikely under normal industrial use. Mildly abrasive to mouth and throat if swallowed
Eyes	Dust is irritating to the eyes. Exposure to dust may aggravate pre-existing eye conditions
Skin	Dust may be mildly irritating and drying to the skin due to its physical characteristics
Inhaled	Dust is mildly irritating to the nose, throat and respiratory tract and may cause coughing and sneezing. Pre-existing upper respiratory and lung diseases including asthma and bronchitis may be aggravated

12 Ecological Information

Silica Sands

Ecotoxity	Silica sands pose no ecology risk. They are non-toxic to aquatic and terrestrial organisms and are not biodegradable.
Persistence and Degradability	Product is persistent and is non-degradable
Mobility	Low mobility would be expected in a landfill situation
Dust	Crystalline silica is non-toxic to aquatic and terrestrial organisms; is not biodegradable; is insoluble and is expected to have low mobility in landfill

13 Disposal Considerations

Crystalline silica itself in all common forms can be treated as a common waste for disposal or dumped into a landfill site in accordance with local authority guidelines

Measures should be taken to prevent dust generation during disposal and exposure and personal precautions should be observed (see above)

Wear sufficient respiratory protection. Dampen spilled material with water to avoid airborne dust, then transfer material to a suitable container for reuse

May be disposed in local landfill

14 Transport Information

UN Number	None Allocated
UN proper Shipping name	None Allocated
Class and subsidiary risk	None Allocated
Packing Group	None Allocated
Hazchem Code	None Allocated
Special precautions for user	See above
DG class	None Allocated

15 Regulatory Information

Crystalline silica is classified as non-Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail

Crystalline silica in the form of respirable dust is classified as Hazardous according to the Australian Safety and Compensation Commission ASCC (formerly NOHSC) Approved Criteria For Classifying Hazardous Substances [NOHSC:1008] 3rd Edition

Exposures by inhalation to high levels of dust may be regulated under the Hazardous Substances Regulations (State and Territory) as they are applicable to Respirable Crystalline Silica, requiring exposure assessment, and control of inhalation exposure below the NES

Persons who have potential for exposure above the NES may be required by Regulations to have periodic health surveillance including Chest X-ray (see relevant State Government Regulations and ASCC/NOHSC documentation)

16 Other Information

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Classification of the preparation and its individual components has drawn on official and authoritative sources using available literature references.
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