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
e-mail: sales@aitkenfreeman.com

Safety Data Sheet

1. Product Name: Resiloc SL – Base Component
Classified as Hazardous

Identification

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:

GHS Classification
Skin corrosion/irritation - Category 2
Skin sensitisation - Sub-category 1B
Acute aquatic toxicity - Category 2
Chronic aquatic toxicity - Category 2

Signal Word Hazard
Hazard Statement
Causes skin irritation.
May cause an allergic skin reaction.
Toxic to aquatic life with long lasting effects.
Pictogram(s) Exclamation mark, Environmental

Precautionary Statements
Prevention
Read label before use.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash skin thoroughly after handling.
Contaminated work clothing should not be allowed out of the work place.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.

Response
Collect spillage.
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
IF ON SKIN:Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Take off contaminated clothing and wash before re-use.

Disposal Dispose of contents/container to approved waste disposal plant

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3. Composition / information on ingredients

Ingredients	Name	CAS	Proportion
	Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-polymers	25085-99-8	+60%
	Diglycidyl ether of phenol - formaldhyde polymer	28064-14-4	10 – 30%
	C12 – C14 glycidyl ether	68609-97-2	10 – 30%

4. First Aid Measures

Inhalation	If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms persist seek medical attention.
Ingestion	Do not induce vomiting. Wash out mouth thoroughly with water. Seek medical attention.
Skin	Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before re-use or discard. Seek medical attention.
Eye contact	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.
First Aid Facilities	Eye wash, safety shower and normal washroom facilities.
Advice to Doctor	Treat symptomatically.
Other information	For advice in an emergency, contact a Poisons Information Centre, 13 11 26, or a doctor at once.

5. Fire fighting measures

Suitable Extinguishing media	Use carbon dioxide, dry chemical, foam or water mist.
Unsuitable Extinguishing media	DO NOT use water jets.
Hazards from Combustion Products	Under fire conditions this product may emit toxic/irritating fumes including carbon monoxide and carbon dioxide.
Specific Hazards arising from the ingredients	Combustible liquid. This product will readily burn under fire conditions.
Hazchem Code	3Z
Precautions in	Fire fighters should wear full protective clothing and self contained breathing

connection with fire	apparatus operated in positive pressure mode. Water spray may be used to keep fire exposed containers cool.

6. Accidental Release Measures

Emergency Procedures	Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Place inert absorbent, non-combustible material on to spillage. Use clean non sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs, inform the local water and waste management authorities in accordance with local regulations.

7. Handling and storage

Precautions for safe Handling	Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mists or vapours in the work atmosphere. Avoid inhalation of vapours and mists, and skin or eye contact. Do not use near ignition sources. Do not pressurise, cut, heat or weld containers as they may contain hazardous residues. Maintain high standards or personal hygiene. ie. Washing hands prior to eating, drinking, smoking or using toilet facilities.
Conditions for safe storage, including any Incompatibilities	Store in a cool, dry, well ventilated area away from heat, sources of ignition, oxidising agents, food stuffs, and clothing, and out of direct sunlight. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Co not pressurise, cut, heat, or weld containers as they may contain hazardous residues. For information on the design of the store room, reference should be made to Australian Standard AS1940 – The storage of flammable and combustible liquids. Reference should also be made to all state and federal regulations.

8. Exposure Controls

Occupational exposure limit values	No exposure standards have been established for this material by Safework Australia. However as with all chemicals, exposure should be kept to the lowest possible levels.
Biological limit values	No biological limit allocated
Appropriate engineering controls	Use with good ventilation. If mists or vapours are produced, local exhaust ventilation should be used.
Respiratory protection	If engineering controls are not effective in controlling airbourne exposure then an approved respirator with a replaceable organic vapour filter should be used. Reference should be made to Australian standards AS 1715, Selection, Use, and Maintenance of Respiratoy Protective Devices, in order to make any necessary changes for individual circumstances.

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Eye Protection	Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian Standard AS 1337 – Eye Protectors for Industrial Applications.
Hand Protection	Wear gloves of impervious material. Final choice of appropriate gloves will vary with individual circumstances ie methods of handling or according to risk assessments undertaken. Reference should be made to AS2161.1 Occupational protective gloves – Selection, Use, and Maintenance.
Body Protection	Suitable protective work wear, EG Cotton overalls buttoned at the neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

9. Physical and Chemical Properties

Form:	Lightly coloured clear liquid
Solubility:	Not miscible with water
Specific Gravity (20°C):	1.12
Relative Vapour Density (air=1):	>1
Vapour Pressure (kPa @ 20°C):	Not Available
Flash Point (°C):	> 150°C
Flammability Limits (%):	Not Applicable
Autoignition Temperature (°C):	400°C
% Volatile by Volume:	Not Applicable
Melting Point/Range (°C):	Not Available
Boiling Point/Range (°C):	Not Available
pH:	Neutral
Viscosity:	700 – 1100 cps

10 Stability and Reactivity

Chemical Stability	Unstable in the presence of incompatible materials See below
Possibility of Hazardous Reactions	may polymerise in contact with heat, organic and inorganic free radical producing initiators may polymerise with evolution of heat in contact with oxidisers, strong acids, bases and amines may react violently with strong oxidisers, permanganates, peroxides, acyl halides, alkalis, ammonium persulfate, bromine dioxide may attack some forms of plastics, coatings, and rubber Avoid reaction with oxidising agents
Conditions to Avoid	Contact with any of the above
Hazardous Decomposition Products	Carbon monoxide

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11 Toxicological Information

Inhaled	The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Not normally a hazard due to non-volatile nature of product
Ingestion	High molecular weight material; on single acute exposure would be expected to pass through gastrointestinal tract with little change / absorption.
Skin Contact	The material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering. Open cuts, abraded or irritated skin should not be exposed to this material
Eye	May produce eye irritation in some persons and produce eye damage
Chronic	Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Toxic: danger of serious damage to health by prolonged exposure through inhalation.
Toxicity	Not available

12 Ecological Information

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment
wash-waters.
Wastes resulting from use of the product must be disposed of on site or at approved waste sites.
Significant environmental findings are limited. Oxiranes (including glycidyl ethers and alkyl oxides, and epoxides) exhibit common characteristics with respect to environmental fate and
ecotoxicology.

13 Disposal Considerations

Product / Packaging	Containers may still present a chemical hazard/ danger when empty.
Disposal	Legislation addressing waste disposal requirements may differ by state and/ or territory. Each user must refer to laws operating in their area. This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. **DO NOT** allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. Where in doubt contact the responsible authority. Recycle wherever possible or consult manufacturer for recycling options. Consult State Land Waste Authority for disposal. Bury or incinerate residue at an approved site. Recycle containers if possible, or dispose of in an authorised landfill.

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14 Transport Information

Labels Required

Land Transport	
UN No.	**3082**
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains bisphenol A/ epichlorohydrin resin)
Transport Hazard Class	Class 9
Packing Group	III
Environmental Hazard	Not Applicable
Hazchem	3Z

15 Regulatory Information

Safety, health and environmental regulations / legislation specific for the substance or mixture
BISPHENOL A/ DIGLYCIDYL ETHER POLYMER, HIGH MOLECULAR WEIGHT(25068-38-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS
Australia Hazardous Substances Information System - Consolidated Lists Australia Inventory of Chemical Substances (AICS)

National Inventory	**Status**
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	N (bisphenol A/ diglycidyl ether polymer, high molecular weight)
China - IECSC	Y
Europe - EINEC / ELINCS /NLP	Y
Japan - ENCS	N (bisphenol A/ diglycidyl ether polymer, high molecular weight)
Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	Y
USA - TSCA	Y

Legend:
Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt

16 Other Information

Classification of the preparation and its individual components has drawn on official and authoritative sources usingavailable literature references.
Revision date 22nd October 2024

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Safety Data Sheet

1. Product Name: Resiloc SL – Hardener Component
Classified as Hazardous

Identification

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:

GHS Classification

Acute Tox.	4 (oral)	Acute toxicity
Acute Tox.	4 (dermal)	Acute toxicity
Skin Corr./Irrit.	1B	Skin corrosion/irritation
Eye Dam./Irrit.	1	Serious eye damage/eye irritation
Skin Sens.	1A	Skin sensitization
Aquatic Acute	3	Hazardous to the aquatic environment - acute
Aquatic Chronic	3	Hazardous to the aquatic environment - chronic

Signal Word Danger
Hazard Statement

Harmful in contact with skin.
Harmful if swallowed.
May cause an allergic skin reaction.
Causes severe skin burns and eye damage.
Harmful to aquatic life.
Harmful to aquatic life with long lasting effects.
Precautionary Statements (Prevention):

P280 Wear protective gloves/clothing/eye protection/face protection
P260 Do not breathe dust or mist.
P273 Avoid release to the environment.
P272 Contaminated work clothing should not be allowed out of the workplace.
P270 Do not eat, drink or smoke when using this product.
P264 Wash with plenty of water and soap thoroughly after handling

Precautionary Statements (Response):

P310 Immediately call a POISON CENTER or doctor/physician.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.
Precautionary Statements (Storage):
P405 Store locked up.

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Pictogram(s)

3. Composition / information on ingredients

Ingredients

Name	**CAS**	**Proportion**
3-aminomethyl-3,5,5- trimethylcyclohexylamine	2855-13-2	30 – 60 %
Benzyl alcohol	100-51-6	30 – 60 %
2-hydroxybenzoic acid	69-72-7	0 – 10 %
Tris-2,4,6-(dimethylaminomethyl) phenol	90-72-2	10 – 30 %

4. First Aid Measures

Inhalation	If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms persist seek medical attention.
Ingestion	Do not induce vomiting. Wash out mouth thoroughly with water. Seek medical attention.
Skin	Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before re-use or discard. Seek medical attention.
Eye contact	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.
First Aid Facilities	Eye wash, safety shower and normal washroom facilities.
Advice to Doctor	Treat symptomatically.
Other information	For advice in an emergency, contact a Poisons Information Centre, 13 11 26, or a doctor at once.

5. Fire fighting measures

Suitable Extinguishing media	Use carbon dioxide, dry chemical, alcohol resistant foam, or water mist.
Unsuitable Extinguishing media	DO NOT use water jets.
Hazards from Combustion Products	Under fire conditions this product may emit toxic/irritating fumes including carbon monoxide, carbon dioxide and oxides of nitrogen.
Specific Hazards arising from the ingredients	Combustible liquid. This product will readily burn under fire conditions.

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Hazchem Code	•3Z
Precautions in connection with fire	Fire fighters should wear full protective clothing and self contained breathing apparatus operated in positive pressure mode. Water spray may be used to keep fire exposed containers cool.

6. Accidental Release Measures

Emergency Procedures	Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Place inert absorbent, non-combustible material on to spillage. Use clean non sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs, inform the local water and waste management authorities in accordance with local regulations.

7. Handling and storage

Precautions for safe Handling	Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mists or vapours in the work atmosphere. Avoid inhalation of vapours and mists, and skin or eye contact. Do not use near ignition sources. Do not pressurise, cut, heat or weld containers as they may contain hazardous residues. Maintain high standards or personal hygiene. ie. Washing hands prior to eating, drinking, smoking or using toilet facilities.
Conditions for safe storage, including any Incompatibilities	Store in a cool, dry, well ventilated area away from heat, sources of ignition, oxidising agents, food stuffs, and clothing, and out of direct sunlight. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Co not pressurise, cut, heat, or weld containers as they may contain hazardous residues. For information on the design of the store room, reference should be made to Australian Standard AS1940 – The storage of flammable and combustible liquids. Reference should also be made to all state and federal regulations.

8. Exposure Controls

Occupational exposure limit values	No exposure standards have been established for this material by Safework Australia. However as with all chemicals, exposure should be kept to the lowest possible levels.
Biological limit values	No biological limit allocated
Appropriate engineering controls	Use with good ventilation. If mists or vapours are produced, local exhaust ventilation should be used.
Respiratory protection	If engineering controls are not effective in controlling airbourne exposure then an approved respirator with a replaceable organic vapour filter should be used. Reference should be made to Australian standards AS 1715, Selection, Use, and Maintenance of Respiratoy Protective Devices, in order to make any necessary changes for individual circumstances.
Eye Protection	Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australiann Standard AS 1337 – Eye Protectors for Industrial Applications.

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Hand Protection	Wear gloves of impervious material. Final choice of appropriate gloves will vary with individual circumstances ie methods of handling or according to risk assessments undertaken. Reference should be made to AS2161.1 Occupational protective gloves – Selection, Use, and Maintenance.
Body Protection	Suitable protective work wear, EG Cotton overalls buttoned at the neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

9. Physical and Chemical Properties

Form:	Lightly coloured clear liquid with strong ammoniacal odour
Solubility:	Not miscible with water
Specific Gravity (20°C):	0.96 – 0.98
Relative Vapour Density (air=1):	Not Available
Vapour Pressure (kPa @ 20°C):	Not Available
Flash Point (°C):	> 96ºC
Flammability Limits (%):	Not Applicable
Autoignition Temperature (°C):	Not Available
% Volatile by Volume:	Not Applicable
Melting Point/Range (°C):	Not Available
Boiling Point/Range (°C):	Not Available
pH:	Neutral
Viscosity:	100 - 300 cps

10 Stability and Reactivity

Possibility of hazardous reactions
The product is chemically stable.
Exothermic reaction. Reacts with acids.

Conditions to avoid
Avoid all sources of ignition: heat, sparks, open flame. See MSDS section 7 - Handling and storage.

Incompatible materials
strong oxidizing agents, acids, halogenated compounds
acids

Hazardous decomposition products
Decomposition products:
Hazardous decomposition products: carbon monoxide, carbon dioxide, nitrogen oxides

11 Toxicological Information

Inhaled	The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Not normally a hazard due to non-volatile nature of product
Ingestion	High molecular weight material; on single acute exposure would be expected to pass through gastrointestinal tract with little change / absorption.
Skin Contact	The material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering. Open cuts, abraded or irritated skin should not be exposed to this material
Eye	May produce eye irritation in some persons and produce eye damage

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Chronic

Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems.
Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.
Toxic: danger of serious damage to health by prolonged exposure through inhalation.

Toxicity

Not available

12 Ecological Information

Toxicity

Benzyl alcohol	*>658 mg/l (Pseudomonas putida) (EC50(16h))*
	71.42 mg/l (Photobacterium phosphoreum) (EC50(0,5h))
	400 mg/l (Pseudomonas putida) (EC50(0,5h))
Daphnia toxicity	*400 mg/l (Daphnia magna (Wasserfloh)) (EC50(24h))*
Algae toxicity	*79 mg/l (Scenedesmus quadricauda) (EC50(3h))*
	640 mg/l (Alge Scenedesmus sp.) (EC50(96h))
Fish toxicity	*460 mg/l (Pimephales promelas) (LC50(96h))*
	645 mg/l (Goldorfe (orfe)) (LC50(96h))
	10 mg/l (Lepomis macrochirus) (LC50 (96h))

Persistence and degradability *No further relevant information available.*
Behaviour in environmental systems:
Bioaccumulative potential *No further relevant information available.*
Mobility in soil *No further relevant information available.*
Ecotoxical effects: *Not determined*
Remark: *Toxic for fish*

13 Disposal Considerations

Product / Packaging Disposal

Containers may still present a chemical hazard/ danger when empty.
Legislation addressing waste disposal requirements may differ by state and/ or territory. Each user must refer to laws operating in their area.
This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.
DO NOT allow wash water from cleaning or process equipment to enter drains.
It may be necessary to collect all wash water for treatment before disposal.
In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
Where in doubt contact the responsible authority.
Recycle wherever possible or consult manufacturer for recycling options.
Consult State Land Waste Authority for disposal.
Bury or incinerate residue at an approved site.
Recycle containers if possible, or dispose of in an authorised landfill.

14 Transport Information

Labels Required

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Land Transport

UN No.	**2735**
Proper Shipping Name	***2735 AMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine)***
Transport Hazard Class	Class 8
Packing Group	III
Environmental Hazard	Not Applicable
Hazchem	·3Z

15 Regulatory Information

· ***Safety, health and environmental regulations/legislation specific for the substance or mixture***
· ***Standard for the Uniform Scheduling of Medicines and Poisons***
None of the ingredients is listed.
· ***GHS label elements***
The product is classified and labelled according to the Globally Harmonised System (GHS).
· ***Hazard pictograms***
GHS05 GHS07 GHS08
· ***Signal word*** *Danger*
· ***Hazard-determining components of labelling:***
3-aminomethyl-3,5,5- trimethylcyclohexylamine
Benzyl alcohol
· ***Hazard statements***
Harmful if swallowed.
Harmful if inhaled.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
Suspected of damaging fertility or the unborn child.
· ***Precautionary statements***
Do not breathe dusts or mists.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· ***Directive 2012/18/EU***
· ***Named dangerous substances - ANNEX I*** *None of the ingredients is listed.*
· ***Seveso category*** *E1 Hazardous to the Aquatic Environment*

16 Other Information

Classification of the preparation and its individual components has drawn on official and authoritative sources using available literature references. Revised 22/10/24

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Safety Data Sheet

1. Product Name: Resiloc SL Fillers

Identification Silica flour

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

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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

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