

K-Fill	Issue Date : August 2014	ISSUED by-KIRKSIDE PRODUCTS
Product Name	K-FILL	
	Classified as hazardous	

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	K-FILL
Company Name	Kirkside Products Pty Ltd (ABN ABN 25-347-454-751)
Address	21 Roberts Rd OSBORNE PARK 6017 WESTERN AUSTRALIA
Emergency Tel.	Australia (08) 9242 2990
Telephone/Fax Number	Tel: (08) 9242 2990 Fax: (08) 9242 4867
Recommended Use	Filler for use with epoxy resin binder system.
Other Information	

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Kirkside Products Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company. Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

Western Australia: www.kirkside.com.au

2. HAZARDS IDENTIFICATION

Hazard Classification	<p>Classified as hazardous Australia: Classified as Hazardous according to criteria of National Occupational Health & Safety Commission, Australia (NOHSC). Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.</p> <p>HSNO Classification: 6.7A - Substance that is known or presumed to be a human carcinogen 6.9A (Repeated exposure) - Substance that is toxic to human target organs or systems</p> <p>Hazard statement codes: H350 May cause cancer. H372 Causes damage to organs through prolonged or repeated exposure.</p> <p>Precautionary statement codes - Prevention: P103* Read label before use. -This statement applies only where the substance is available to the general public. P104 Read Safety Data Sheet before use. P201 Obtain special instructions before use.</p>
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P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product. P281 Use personal protective equipment as required.

Precautionary statement codes - Response:
P314 Get medical advice/attention if you feel unwell.
P308+P313 IF exposed or concerned: Get medical advice/ attention.

Precautionary statement codes - Storage: P405 Store locked up.

Precautionary statement codes - Disposal:
P501 In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided. See Section 13 for disposal details.

Risk Phrase(s) Classified as hazardous
R48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation.
R49(1) May cause cancer by inhalation.

Safety Phrase(s) S22 Do not breathe dust.
S24/25 Avoid contact with skin and eyes.
S37/39 Wear suitable gloves and eye/face protection.
S38 If insufficient ventilation, wear suitable respiratory equipment.

Other Information Avoid inhalation of fine dust generated by mechanical attrition.
Warning: Not to be used for dry sand blasting applications, as this creates large amounts of respirable silica dust.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Information on Composition Fine sand mixture. Contains >1% respirable crystalline silica in the form of quartz.

Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Silicon dioxide (quartz)	14808-60-7	>90 %		
Other minerals		Mixture	<2 %		

4. FIRST AID MEASURES

Inhalation	Move the affected person to fresh air. Ensure airways are clear. Keep at rest. 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. If symptoms develop seek medical attention.
Eye	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed off completely. Seek medical attention.
First Aid Facilities	Eye wash and normal washroom facilities.
Advice to Doctor	Treat symptomatically.
Other Information	For advice in an emergency, contact a Poisons Information Centre (Phone Australia 13 1126; or a doctor at once).

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Use appropriate fire extinguishing media for surrounding combustible materials involved in the fire. Foam, dry chemical powder, carbon dioxide, water spray or water fog are suitable for this product.

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Hazards from Combustion	Smoke, fumes and dust may be generated in a large fire.
Products	
Specific Hazards	The product is not combustible, however the packaging may burn under fire conditions
Precautions in connection with fire	Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Wear appropriate personal protective equipment and clothing to prevent inhalation and eye exposure. Sweep up material avoiding dust generation or where possible use dustless methods such as vacuum to collect the material and transfer into suitable labelled containers for subsequent recycling or disposal. If contamination of sewers or waterways occurs inform the local water authorities and EPA in accordance with local regulations. Dispose of waste according to applicable local and national regulations.
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7. HANDLING AND STORAGE

Precautions for Safe Handling	Before use carefully read the product label. Use only in well ventilated areas. Avoid generation of dusts. DO not enter confined spaces where airborne dusts exceed exposure limits. Keep containers closed when not in use. Wear appropriate protective equipment to prevent inhalation, skin and eye contact. Practice good personal hygiene, that is, always wash hands after handling the product, and before eating, drinking, smoking or using the toilet facilities. Store in a cool, dry, well-ventilated area. Protect containers/bags from damage. Avoid generation of dust.
Conditions for Safe Storage	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	No exposure value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC), Australia or the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour. However, the available exposure limits for ingredients are listed below: National Occupational Health And Safety Commission (NOHSC), Australia Exposure Standards: <table border="1"> <thead> <tr> <th>Substance</th> <th colspan="2">TWA</th> <th colspan="2">STEL</th> <th>NOTICES</th> </tr> <tr> <td></td> <th>ppm</th> <th>mg/m³</th> <th>ppm</th> <th>mg/m³</th> <td></td> </tr> </thead> <tbody> <tr> <td>Quartz (crystalline silica)</td> <td>-</td> <td>0.1</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table> <p>TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week. STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday. A2 CARCINOGEN: Suspect human carcinogen.</p>	Substance	TWA		STEL		NOTICES		ppm	mg/m ³	ppm	mg/m ³		Quartz (crystalline silica)	-	0.1	-	-	-
Substance	TWA		STEL		NOTICES														
	ppm	mg/m ³	ppm	mg/m ³															
Quartz (crystalline silica)	-	0.1	-	-	-														
Biological Limit Values	No biological limit allocated.																		
Engineering Controls	Good ventilation adequate to maintain the concentration below exposure standards is required. The use of a local exhaust ventilation system (drawing dusts away from workers breathing zone) is recommended. If the engineering controls are not sufficient to maintain concentrations of particulates below the exposure standards, suitable respiratory protection must be worn.																		
Respiratory Protection	If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable dust/particulate filter should be used. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS																		

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Eye Protection	1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances. 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/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
Hand Protection	Wear dust-impervious gloves conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments.
Body Protection	Suitable workwear should be worn to protect personal clothing, eg cotton overalls buttoned at neck and wrist. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing. Dusty clothing should be laundered before reuse. Use precautionary measures to avoid creating dust when removing or laundering clothes.
Hygiene Measures	Ensure a high level of personal hygiene is maintained when using this product. Always wash hands before eating, drinking, smoking or using the toilet facilities.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Grey
Odour	Odourless
Melting Point	Not available
Boiling Point	Not available
Solubility in Water	Insoluble
Specific Gravity	1.49 @ 23 °C
pH Value	Not available
Vapour Pressure	Not available
Flash Point	Not applicable
Flammability	Non-combustible solid.
Auto-Ignition Temperature	Not applicable
Flammable Limits - Lower	Not applicable
Flammable Limits - Upper	Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal use conditions.
Conditions to Avoid	Dust generation.
Incompatible Materials	Not available
Hazardous Decomposition Products	Thermal decomposition and combustion may produce noxious fumes.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology	Respirable crystalline silica (particle size smaller than 7 micrometres), is regarded as a danger to health by prolonged exposure through inhalation. Repeated, prolonged or concentrated inhalation of respirable crystalline silica dust may lead to silicosis, a serious lung disease.
Inhalation	Breathing of dust may cause shortness of breath, and aggravate asthma and inflammatory or fibrotic pulmonary disease. Inhalation may cause delayed lung

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Ingestion	disease. Acute aspiration may cause drying and irritation of the respiratory tract, cough, dyspnea, sneezing, vomiting, cyanosis, and pulmonary edema which may be delayed by up to several hours. Ingestion of large amounts may irritate the gastric tract causing nausea and vomiting.
Skin	Skin contact may cause dryness. May cause mild irritation in the case of some individuals with sensitive skin.
Eye	Eye contact may cause mechanical irritation.
Chronic Effects	May cause cancer by inhalation. Toxic: danger of serious damage to health by prolonged exposure through inhalation. Repeated, prolonged or concentrated inhalation of respirable crystalline silica dust may cause silicosis or other serious delayed lung injury. The onset of silicosis is usually slow and lung damage may occur even when no symptoms or signs of ill-health have occurred.
Carcinogenicity	Cancer (IARC) as carcinogenic to humans by inhalation (Group 1).

12. ECOLOGICAL INFORMATION

Ecotoxicity	Not available
Persistence / Degradability	Not available
Mobility	Not available
Environ. Protection	Prevent this material entering waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations	<p>Product Disposal:</p> <p>Product wastes are controlled wastes and should be disposed of in accordance with all applicable local and national regulations. This product can be disposed through a licensed commercial waste collection service. The product should be rendered non-hazardous before being sent to a licensed landfill facility.</p> <p>Do not dispose directly into the sewerage system. Do not discharge into drains or watercourses or dispose where ground or surface waters may be affected. Personal protective clothing and equipment as specified in Section 8 of this SDS must be worn during handling and disposal of this product. The ventilation requirements as specified in the same section must also be followed, and the precautions given in Section 7 of this SDS regarding handling must also be followed.</p> <p>Do not dispose into the sewerage system. Do not discharge into drains or watercourses or dispose where ground or surface waters may be affected.</p> <p>In New Zealand, the disposal agency or contractor must comply with the New Zealand Hazardous Substances (Disposal) Regulations 2001. Further details regarding disposal can be obtained on the ERMA New Zealand website under specific group standards.</p> <p>Container Disposal:</p> <p>The container or packaging must be cleaned and rendered incapable of holding any substance. It can then be disposed of in a manner consistent with that of the substance it contained. In this instance the packaging can be disposed through a commercial waste collection service.</p> <p>Alternatively, the container or packaging can be recycled if the hazardous residues have been thoroughly cleaned or rendered non-hazardous.</p> <p>In New Zealand, the packaging (that may or may not hold any residual substance) that is lawfully disposed of by householders or other consumers through a public or commercial waste collection service is a means of compliance with regulations.</p>
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14. TRANSPORT INFORMATION

Transport Information	<p>Road and Rail Transport:</p> <p>Australia:</p> <p>Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)</p>
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Marine Transport:
 Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport:
 Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

Regulatory Information	Australia: Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia. Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).
Poisons Schedule National and or	Not Scheduled New Zealand: Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001. All components of this product are listed on the New Zealand Inventory of Chemicals (NZIoC) or exempted. Group Standard: Additives, Process Chemicals and Raw Materials (Toxic [6.7]) Group Standard 2006

Hazard Category Toxic

16. OTHER INFORMATION

Date of preparation or last revision of MSDS	MSDS Reviewed: August 2014 Supersedes: January 2011
Contact Person/Point	Technical Support: (08) 9242 2990 ...End Of MSDS...