

MATERIAL SAFETY DATA SHEET

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1. Identification of the Material and Supplier

Product Name	FireShield Eco
Other Names	13FR ECO
Recommended Use	A lining material for fire rated walls and ceilings
Supplier Name	Knauf Plasterboard Pty Ltd 31 Military Road Matraville NSW 2036 1300 724 505 Monday – Friday [6am – 5pm]
Emergency Contact	National Poisons Centre 13 11 26

2. Hazards Identification

Classified as hazardous according to the criteria of NOHSC Australia.
Not classified as a dangerous good by the criteria of the ADG Code.

When plasterboard is used as intended it generates only a small amount of dust, therefore limiting the potential health effects caused by the inhalation of dust. It may present a hazard if boards are sanded, drilled, sawed with dust generation.

Risk Phrase	R49 May cause cancer by inhalation. R36/37/38 Irritating to eyes, respiratory system and skin.
Safety Phrase	Avoid exposure – obtain special instructions before use. S22 Do not breathe dust. S24/25 Avoid contact with skin and eyes. S51 Use only in well ventilated areas.

3. Information on Ingredients

Chemical Entity	CAS Number	Proportion
Paper Linerboard	9004-34-6	<6%
Gypsum	10101-41-4	>75%
Fly Ash	69012-84-6	<10%
Vermiculite	1318-00-9	<6%
Starch	9005-25-8	<3%
Glass Filaments	6599-17-3	<1%
Crystalline Silica	14808-60-7	<0.3%

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4. First Aid Measures

Swallowed	Wash mouth out with water. If actual ingestion has occurred, drink plenty of water and seek medical attention.
Eye	Flush with plenty of clean water. If irritation persists seek medical attention.
Skin	Wash with soap and water. Apply skin moisturiser.
Inhaled	Recover in fresh air. If discomfort persists seek medical attention.
Advice to Doctor	Treat symptomatically.

5. Fire Fighting Measures

Not combustible. Fire fighters to wear self-contained breathing apparatus.

6. Accidental Release Measures

Spills	Vacuum first if possible or wet then sweep up and place in waste containers.
Precautions for Clean-Up Crew	Avoid creating excessive dust. Wear Class P1 or P2 respirator.

7. Handling and Storage

Storage	Store in a dry well-ventilated environment fully protected from the weather.
Handling	Use safe work practices to avoid eye and skin contact and inhalation.

8. Personal Protection

Exposure Standards

- Crystalline Silica (quartz): 0.1 mg/m³ TWA (time weighted average) as respirable dust
- Gypsum (Calcium Sulphate): 10 mg/m³ TWA as inhalable dust
- Starch: 10 mg/m³ TWA as inhalable dust
- Dust NOS (not otherwise specified): 10 mg/m³ TWA as inhalable dust

Engineering Controls

Avoid generating dust. If dust is created when using power operated equipment for cutting or drilling the product in an enclosed or poorly ventilated area local dust extraction is recommended. Work areas should be cleaned regularly by sweeping or vacuuming.

Personal Protective Equipment

Use Class P1 or P2 respirator, which conforms to AS/NZS 1715 and 1716 where dust may be generated and where ventilation or engineering controls are not effective at reducing exposure to at least one-half the exposure standard.

Note: Persons with facial hair will be unable to obtain a satisfactory face seal.

Use rubber gloves to avoid skin contact if product causes irritation.

Wear goggles if dust is likely to cause irritation.

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9. Physical Properties

Appearance	Plasterboard sheet with a gypsum plaster core encased in paper linerboard which is green in colour
Odour	Low odour
Boiling Point	Not applicable
Board Density	800kg/m ³
Vapour Pressure	Not applicable
Solubility in Water	Slightly soluble
Flammability	Non-flammable
VOC Content	<0.5 mg/m ² /hr (as required by Green Star)

10. Stability and Reactivity

No reported incompatibilities. Decomposition in fire may release toxic fumes.

11. Toxicological Information: Low Toxicity

Swallowed	Unlikely under normal conditions of use but swallowing this product may be harmful or result in abdominal discomfort.
Eye	Dust from this product may irritate the eyes, causing watering and redness.
Skin	Prolonged skin contact may cause irritation of the skin.
Inhaled	Dust from this product may cause irritation of the nose, throat and lungs, causing coughing and sneezing.
Chronic	Repeated inhalation of dust containing crystalline silica (quartz) may cause bronchitis, silicosis and lung cancer. It may also increase the risk of scleroderma, a disease affecting the connective tissue of the skin, joints, blood vessels and internal organs. In June 1997 silica was evaluated by the International Agency Research on Cancer (IARC): " <i>Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1)</i> ". Studies have shown that smoking increases the risk of bronchitis, silicosis and lung cancer in persons exposed to crystalline silica.

12. Ecological Information

Causes no adverse environmental effects.

13. Disposal Considerations

For any unused product empty into waste containers. Dispose in accordance with local authority regulations. Contact local waste disposal authority.

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14. Transport Information

Not regulated for transport purposes.

Hazchem Code None allocated.

15. Regulatory Information

No poison schedule number has been allocated.

16. 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 Knauf Plasterboard 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.