FIRECORE PTY LTD

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FIRECORE PTY LTD TVC-CORE BOARD
Safety Data Sheet

Issue date: July-2025

1: IDENTIFICATION

Product identifiers
Product Name: FIRECORE PTY LTD TVC-Core Board
Product Use: TVC-Core boards use for fire resistant doors and panels

Company details
FIRECORE PTY LTD
8 Dumic Place, Cromer NSW 2099 Australia
Telephone: 0425 308 830
Email address: adamzhang@firecore.com.au

2: HAZARDS IDENTIFICATION

Not classified as hazardous according to the criteria of Safe Work Australia

ACUTE HEALTH EFFECTS
Hazards relating to dust generated by sawing, cutting, sanding, trimming or other processing operations are present. These can materialise if the dust is swallowed, inhaled or comes into contact with the eyes or skin.

3: COMPOSITION AND INFORMATION ON INGREDIENTS

NAME	CAS	Content (%)
Expanded vermiculite	1318-00-9	>70
Kaolin clay powder	1332-58-7	>10
Liquid sodium silicate binder	1344-09-8	<5
Water		

The TVC-Core board is made from more than 70% expanded vermiculite (containing no asbestos) mixed with kaolin clay powder (containing no asbestos) and liquid sodium silicate binder (containing no asbestos) and water. Formed by pressure and heat treatment, the TVC-Core board is used in the making of fire resistant and insulating doors.

4: FIRST AID MEASURES

INGESTION
If swallowed, the dust may lead to discomfort and an abrasive feeling, though this is considered an unlikely route of entry in commercial and industrial environments.

If swallowed, rinse mouth out immediately with clean water. Do not induce vomiting. Seek medical attention if irritation or discomfort persists. Overexposure is unlikely in this form and quantity.

INHALATION
If dust is inhaled, this may cause breathing difficulty and upper respiratory tract irritation.

If dust is inhaled, move away from the area to where fresh air is available. Rinse mouth out with clean water. Blowing nose may help clear breathing passages. Seek medical attention if irritation or discomfort persists.

SKIN CONTACT
It is possible for those with sensitive skin to experience irritation from dust. Preventing skin from contact with wetted dust is the best way to avoid any mild discomfort. If dust comes in contact with the skin, wash affected areas with water and soap. Seek medical attention if irritation or discomfort persists.

EYE CONTACT
Exposure of the eyes to dust may cause irritation and abrasiveness, potentially resulting in temporary redness, soreness of the conjunctiva (similar to windburn), temporary visual disturbance, or other transient eye damage/possible ulceration.

In case of eye contact, hold eyelids open and rinse thoroughly with clean running water. If contact lenses are present and removal is difficult or delayed due to injury, they should only be removed by trained personnel. Continue rinsing eyes. Seek medical attention if irritation or pain persists or recurs.

ADVICE TO DOCTOR
Treat symptomatically.

5: FIREFIGHTING MEASURES

FIRE HAZARD
Non-combustible material.
The board's composition of materials makes it non-combustible.

6: ACCIDENTAL RELEASE MEASURES

No special precautions are necessary to pick up product that has been dropped. Handle carefully to prevent accidental dropping or breaking of board. Clean up any spilled materials immediately. If safe to do so, secure load and bundle/collect any recoverable product. Use dry clean up methods and avoid generating dust. If workplace dust exposure is not adequately controlled, an SAA-approved dust respirator must be worn. Then vacuum or sweep up any spilled materials. Place spilled materials in suitable containers, clearly identified for appropriate disposal.

7: HANDLING AND STORAGE

SUITABLE CONTAINER
Packaging as recommended by manufacturer.

STORAGE PRECAUTIONS
Store under cover and keep dry. Protect containers against physical damage. Observe manufacturer's storing recommendations.

HANDLING PRECAUTIONS

To minimise dust generation, maintain good ventilation in workplace. Ensure powered tools (e.g. saws, etc.) are used with dust extraction and containment equipment. Where possible and appropriate, use sharp hand cutting tools to help minimise dust generation.

8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE STANDARDS AND LIMITS

None assigned by Safe Work Australia for the final TVC-Core board product. Exposure limits for individual ingredients are as below:

Vermiculite: Not available
Kaolin clay powder: TWA 10mg/m^3
Liquid sodium silicate binder: Not available

ENGNEERING CONTROLS

Use in a well-ventilated area. General exhaust is adequate under normal operating conditions. If product is to be used in a confined space, local extraction is recommended. Provide adequate ventilation in warehouse or closed storage areas.

EYE AND FACE PROTECTION

Appropriate eye and face protection should be used. Safety glasses with side shields should be used at all times when sawing, machining or sanding. Contact lenses may cause special hazards, as soft lenses may absorb irritants and lenses in general may concentrate them.

HANDS/FEET PROTECTION

Physical protective gloves to be worn, e.g. leather.
Safety footwear to be worn at all times.

OTHER INFORMATION

1. Head covering and dust mask should be worn when working above head height.
2. Powered tools (e.g. saws etc.) should only be used if fitted with dust extraction and containment equipment.
3. To minimise dust generation, use sharp hand cutting tools if possible and where appropriate.
4. Wear suitable and protective clothing – e.g. overalls/long sleeve shirts.
5. Vacuum cleaners should be available for dust/fibre removal.
6. Always wash hands before eating, drinking or using the toilet.

Personal protective equipment required is determined by the local concentration of material, quantity and conditions of use. Seek consultation from your Occupational Health and Safety Advisor for further information.

9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pressed fawn boards, insoluble in water. Low thermal conductivity, high strength and non-combustible.
Vapour Pressure: Negligible
Boling Point: Not Available
Melting Point: > 900 (°C)
Flash Point: Non-combustible
Specific Gravity: 0.30-1.0 @ 25 (°C)

Flam. Limit LEL: Not Applicable
Flam. Limit UEL: Not Applicable
Solubility in Water: Insoluble

10: STABILITY AND REACTIVITY

Stability: Stable under normal ambient storage and handling conditions.
Incompatible materials: None known
Possibility of hazardous reactions: None known
Hazardous decomposition products: None known
Conditions to avoid: None known

11: TOXICOLOGICAL INFORMATION

INGESTION

Not typically a hazard due to the physical form of the product. If ingested, the material may be a physical irritant to the gastro-intestinal tract. The dust may lead to some discomfort and abrasive feeling, though this is considered an unlikely route of entry in commercial and industrial environments.

INHALATION

If dust is inhaled, this may cause breathing difficulty and upper respiratory tract irritation. Adverse effects on the lungs may be significantly increased when inhaled in the form of respirable particles. Inhalation of excessive concentrations of particulate may cause further disability for those people with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis.

SKIN IRRITATION

Not typically a skin irritant due to the physical form of the product. It is possible for those with sensitive skin to experience irritation from dust. Preventing skin from contact with wetted dust is the best way to avoid any mild discomfort.

EYE IRRITATION

Exposure of the eyes to dust may cause irritation and abrasiveness, potentially resulting in temporary redness, soreness of the conjunctiva (similar to windburn), temporary visual disturbance, or other transient eye damage/possible ulceration.

CHRONIC HEALTH EFFECTS

Inhalation of dust generated from the product is the primary route of exposure. Consistent with safe handling of any chemical products, exposure should be minimised by following good occupational work practices, including avoiding contact with unprotected skin, inhalation of vapours, mists, or dust in the workplace, and ingestion in any form. Prolonged exposure to high concentrations of fine dust particles (particularly those smaller than 0.5 microns) may lead to changes in lung function, such as pneumoconiosis. Symptoms may include breathlessness, and chest X-rays may reveal characteristic shadowing in the lungs.

12: ECOLOGICAL INFORMATION

There is a very limited ecological data available on the effects that may occur from this product being released into the environment. Clean up of this product would not be expected to leave any hazardous material that could cause a significant adverse impact.

13: DISPOSAL CONSIDERATIONS

Consult your state's Land Waste Management Authority for disposal. Bury residue in an authorised and approved landfill. In all cases, disposal must be in accordance with regulations.

14: TRANSPORTATION INFORMATION

No restrictions. This product is not considered as Dangerous Goods according to the Australian Dangerous Goods Code.

15: REGULATORY INFORMATION

Regulatory information is provided within the relevant sections of this material safety data sheet, as appropriate.

16: OTHER INFORMATION

POINT OF CONTACT

In case of an emergency contact:

Australian Poison Information Centre 24-hour service – 13 11 26
Emergency services – 000
Firecore Pty Ltd – 0425 308 830