

FIRE DOOR CORE®



SAFETY DATA SHEET FDC EDGING & FACING

Issued By: Fire Door Core Pty Ltd



Section 1: IDENTIFICATION

1.1 Product identifier

Trade names: Calcium Silicate Board
FDC Edging
FDC Facing
FDC Skins

1.2 Relevant identified uses of the substance or mixture and uses advised against recommended uses:

Specifically used for facings and edges for door panels as per the relevant installation guides and manuals

1.3 Details of the supplier/importer:

Company: Fire Door Core Pty Ltd
Address: 52 Violet Street, Revesby
Postcode: 2212
City: Sydney
Country: Australia
E-mail: info@firesafeddoors.sydney

1.4 Emergency Telephone Number:

+61 2 9070 0732

Section 2: HAZARD IDENTIFICATION

Important Note:

Below classification applies to FDC Edging and FDC Facing in dust form when cutting, planning, drilling etc. When dust is not present and the panels are intact, the FDC materials are not expected to create any adverse or toxic effects.

2.1 Classification of the Substance or mixture:

Classified as Hazardous in accordance with the GHS (Globally Harmonised System of Classification and Labelling of Chemicals).

Not Classified as Dangerous Goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Carcinogenicity category 1A

STOT Repeated Exposure: Category 1

2.2 Label Elements:

Signal Word: DANGER

Hazard Statements:

H350 May Cause cancer by inhalation

H372 Causes damage to organs (lungs and respiratory system) through prolonged or repeated exposure by inhalation

Precautionary Statements:

P201 Obtain Special instructions before use

P202 Do not handle until all safety precautions have been read and understood

P260 Do not breathe dust

P264 Wash contaminated skin thoroughly after handling

P270 Do not eat, drink or smoke when using this product

P281 Use personal protective equipment as required

P308+P313 If exposed or concerned: Get medical advice/attention

P314 Get medical advice/attention if you feel unwell

P501 Dispose of contents/container to an approved disposal plant

2.3 Pictogram:





Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition Details from Supplier #1

Substance Name	UN#	CAS#	% by weight range
Calcium Silica (Quartz)	Not a hazardous material for shipping	14808-60-7	30-45%
Calcium Silicate (Hydrate)	Not a hazardous material for shipping	65977-15-1	34-65%
Calcium Sulphate	Not a hazardous material for shipping	10034-76-1	< 10%
Calcium Aluminium Silicate	Not a hazardous material for shipping	1344-28-1	< 10%
Cellulose	Not a hazardous material for shipping	9004-34-6	< 15%
Water	Not a hazardous material for shipping	7732-18-5	< 18%
Calcium Carbonate	Not a hazardous material for shipping	471-34-1	< 15%

Composition Details from Supplier #2

Substance Name	UN#	CAS#	% by weight range
Calcium	Not a hazardous material for shipping	7440-70-2	35%
Silicon	Not a hazardous material for shipping	7440-21-3	57%
Cellulose Fiber	Not a hazardous material for shipping	9004-34-6	8%

Section 4: FIRST-AID MEASURES

4.1 Description of necessary first aid measures:

General:	If immediate medical advice is needed, contact 1800 638 556. Show the safety data sheet of label.
Inhalation:	Dust may cause irritation. Seek fresh air, wash out mouth with water and blow nose thoroughly. Seek medical advice in case of persistent discomfort.
Ingestion:	Dust may cause irritation. Wash out mouth thoroughly and drink 1-2 glasses of water or milk and induce vomiting. Seek medical advice in case of persistent discomfort
Skin contact:	Dust may cause irritation. Wash the skin with soap and water. Seek medical advice in case of persistent discomfort
Eye Contact	Dust may cause irritation. Flush with water (preferably using eye washing equipment) until irritation subsides. Seek medical advice if symptoms persist

4.2 First Aid Facilities:

Access to running water

Eyewash Facilities



Section 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing equipment:

Foam, fog sprays, carbon dioxide, extinguishing powder, water jets

5.2 Specific hazards arising from the substance or mixture

Non-flammable material, non-combustible, non-explosive

5.3 Special protective equipment and precautions for firefighters

Wear full protective clothing

Wear Self-Contained Breathing Apparatus

Do not breathe dust. Use adequate ventilation and dust collection.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Non-Emergency Personnel Wear PPE to prevent eye, skin and respiratory exposure to dust. Work upwind or increase ventilation

Emergency Personnel In addition to above: Protective clothing equivalent to EN469 + Self-Contained Breathing Apparatus

Avoid dust formation.

Avoid breathing mist, gas or vapours

Avoid contacting with skin and eye

Wear chemical impermeable gloves

Ensure adequate ventilation

Remove all sources of ignition

Evacuate personnel to safe areas

Keep people away from upwind of spill/leak

6.2 Environmental Precautions:

Non-flammable material, non-combustible, non-explosive

Non-ecotoxic material

Avoid creating dust

Prevent spillage from entering drains and/or surface water

6.3 Methods and material for containment and cleaning up:

Avoid dry sweeping any dust.

Prevent spillage from entering drains and/or surface water

Always use HEPA vacuum cleaners or appropriate wet suppression.

This material may be suitable for approved landfill.

6.4 Reference to other sections:

See section 8 for type of protective equipment. See section 13 for instructions on disposal

Section 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

Exposure to silica dust must be kept to a minimum.

Avoid skin contact, eye contact and inhalation of dust

Work processes where generation of dust may occur must be performed under effective process ventilation (e.g. local exhaust ventilation).

Running water and eye wash equipment must be available.

Wash hands before breaks, before using restroom facilities and at the end of work.

Minimise dust creation by using appropriate tooling, cutting method and dust extraction equipment

Clean work area regularly by vacuuming with HEPA vacuum cleaners or appropriate wet suppression

Do not work with material until all safety precautions have been read and understood

7.2 Conditions for safe storage, including any incompatibilities:

The product should be stored safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc.

Avoid mechanical damage to material like chipping the corners and edges. Protect material where possible when handling / storing

7.3 Specific end use(s):

No Special uses in addition to identified uses in 1.2.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Occupational exposure limit values:

Over-exposure to some of the chemicals used may result in enhancement of pre-existing medical conditions. Exposure to be kept to the lowest possible levels.

Ingredient: Crystalline Silica (Quartz) (Respirable Dust)

ES-TWA: 0.5mg/m³

Note: Carc. 1A

Ingredient: Calcium Silicate

ES-TWA: 10mg/m³

Ingredient: Celulose

ES-TWA: 10mg/m³

Ingredient: Calcium Sulphate

ES-TWA: 10mg/m³

Ingredient: Calcium Carbonate

ES-TWA: 10mg/m³

Ingredient: Calcium Aluminium Silicate

ES-TWA: Value not available

Note:

TWA = Time Weighted Average: The average airborne concentration of a particular substance over a standard 8 hour work day for a 40 hour 5-day work week

Source for Values: *Safe Work Australia*

8.2 Biological monitoring:

No Biological limits allocated

8.3 Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible limit

8.4 General Controls:

Warn others in the work area to avoid any dust

Consider rotating personnel / workers across cutting works tasks

Use dust minimising tooling and equipment

Never dry sweep. Always use HEPA vacuum cleaners or appropriate wet suppression.

Avoid using dust creating tools/machines indoors

8.5 Personal Protective Equipment:

Eyes	At a minimum, wear safety goggles or full face plastic shields when cutting material. Do not wear contact lenses Comply with AS1337: Eye Protectors for Industrial Applications
Skin	Wear appropriate protective clothing to prevent skin exposure
Clothing	Wear appropriate protective clothing to prevent skin exposure
Respirators	Always wear at a minimum P2 grade masks/respirators. Masks/Respirators to be correctly fitted Comply with AS1715: Respiratory Protective Equipment Comply with AS1716: Respiratory Protective Devices If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator



Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Properties	Description
Appearance	Solid Sheets or strips. Variable sizes dependant on product details
Form	Solid
Colour	White/Light Grey with yellow tinge
Odour	Slight Cement Odour
Decomposition Temperature	Not Available
Melting Point	Not Available
Boiling Point	Not Applicable
Solubility	Insoluble in water
Specific Gravity	>1
pH	11
Vapour Pressure	Not Applicable
Vapour Density	Not Available
Evaporation Rate	Not Applicable
Corrosiveness	Non Corrosive
Odour Threshold	Not Available
Viscosity	Not Available
Volatile Component	Not Applicable
Partition Coefficient:	Not Available
Flash Point	Not Flammable
Auto-Ignition Temperature	Not Available
Explosion Limit-Upper	Not Applicable
Explosion Limit-Lower	Not Available
Explosion Properties	Not Available
Oxidising Properties	Not Available

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity:

Products can react with incompatible materials

10.2 Chemical stability:

The product is stable when used in accordance with the supplier's directions. Stable under normal temperature and pressures

10.3 Possibility of hazardous reactions:

Products can react with incompatible materials

10.4 Conditions to avoid:

Avoid creating dust where possible, when handling and during installation

10.5 Incompatible materials:

Strong acids, ammonia salts, strong oxidising agents

10.6 Hazardous decomposition products:

None



Section 11: TOXICOLOGICAL INFORMATION

Below information applies to the material as respirable dust. In an undisturbed, solid form, the materials are non-toxic.

11.1 Acute Toxicity:

Oral	LD50 for Calcium Silicate: 3400mg/kg (oral, rat)
Inhalation	Not considered acutely toxic if inhaled. Irritation of the respiratory tract may cause nausea and vomiting
Dermal	No known toxicity
Ingestion	No known adverse effects. Ingesting large amounts may cause nausea and vomiting
Inhalation	May irritate the respiratory system Inhaling excessive amounts may aggravate existing respiratory and lung disorders including asthma, emphysema and bronchitis. Repeatedly inhaling excessive amounts can cause silicosis, lung cancer, chronic obstructive pulmonary disease (COPD), and kidney disease. Silicosis and lung disease can continue to develop after the excessive exposure has ceased and can also lead to scleroderma and heart disease May irritate the respiratory tract and can cause sneezing, coughing and wheezing

11.2 Skin corrosion / irritation:

Exposure to dust may dry out the skin, however the material is not considered an irritant and is not absorbed through the skin. Abrasive irritation can occur when in contact with the skin, leading to itching, redness and dermatitis

11.3 Serious eye damage/irritation:

No serious eye damage

May cause irritation

11.4 Respiratory sensitisation:

No evidence of being a respiratory sensitiser

11.5 Skin sensitisation:

No evidence of being a skin sensitiser

11.6 Germ cell mutagenicity:

Not considered to cause germ cell mutagenicity

11.7 Carcinogenicity:

Excessive long term inhalation can cause silicosis and lung cancer – Respirable crystalline silica is classified as Group 1 carcinogenic to humans

11.8 Reproductive Toxicity:

No evidence of being toxic to reproduction

11.9 Specific Target Organ Toxicity (STOT) – Single Exposure:

No evidence of being toxic towards a specific target organ

11.10 Specific Target Organ Toxicity (STOT) – Repeated Exposure:

Excessive long term inhalation can cause damage to the lungs and respiratory system

11.11 Aspiration Hazard:

No evidence of being an aspiration hazard

11.12 Interactive effects:

For persons with long term exposure to crystalline silica, smoking may increase the risk of developing or aggravating diseases such as lung cancer, silicosis, bronchitis, chronic obstructive pulmonary disease (COPD), kidney disease. Emphysema and asthma

11.13 Delayed health effects:

Silicosis and lung disease can continue to develop after the excessive exposure has ceased and can also lead to scleroderma and heart disease



Section 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

Test data not available

12.2 Persistence and degradability:

Test data not available

12.3 Bioaccumulative potential:

Test data not available

12.4 Mobility in soil:

Test data not available

12.5 Other adverse effects:

None known

Section 13: DISPOSAL CONSIDERATIONS

13.1 Disposal Considerations:

Avoid discharge to drain or surface water. If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste. Disposal shall be in accordance with applicable regional, state and national laws and regulations.

Dispose in an effective way as to not expose others to possible dust from the material.

Reference should be made to section 8 of this safety data sheet for relevant exposure controls and personal protection.

Section 14: TRANSPORT CONSIDERATIONS

14.1 UN Number:

Not Applicable

14.2 UN Proper Shipping Name:

Not Applicable

14.3 Transport Hazard Class:

Not Applicable

14.4 Packing Group:

Not Applicable

14.5 Environmental hazards for transport purposes:

Not Applicable

14.6 Special precautions for user:

None

14.7 Hazchem or emergency action code:

None

Section 15: REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations:

Classified as Hazardous in accordance with the GHS (Globally Harmonised System of Classification and Labelling of Chemicals).

Not classified as a scheduled poison in accordance with SUSMP (Standard for the Uniform Scheduling of Medicines and Poisons).

15.2 AICS High Volume Industrial Chemicals List (HVICL) – Listed Chemicals:

Calcium Silica (Quartz)

Calcium Silicate (Hydrate)

Calcium Sulphate / Calcium Sulphate Hemihydrate

Calcium Aluminium Silicate / Aluminium Oxide

Calcium Carbonate



Section 16: OTHER INFORMATION

16.1 Version history and indication of changes:

Version 1.0 Dated 4th August, 2021

Version 2.0 Dated 1st December, 2021

16.2 Revision:

Not Applicable

16.3 Abbreviations:

AICS	Australian Inventory of Chemical Substances
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
LD50	Lethal Dose 50% (Tested on Rats)
STOT	Specific Target Organ Toxicity
TWA	Time Weighted Average – Exposure Standard averaged over typical work day
UN	United Nations Number

16.4 References:

Australian Code for the Transport of Dangerous Goods by Road and Rail

Globally Harmonised System of Classification and Labelling of Chemicals

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice

Standard for the Uniform Scheduling of Medicines

Workplace Exposure Standards for Airborne Contaminants – Safe Work Australia

16.5 Disclaimer:

This safety data sheet has been prepared for and applies to this product only. It is a guideline for safety and not a guarantee of safety. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation, however, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond the control of Fire Door Core and may be beyond the knowledge of Fire Door Core. For this and any other reason, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of, or in any way, connected with the handling, storage and use of disposal of the product

16.6 Training advice:

A thorough knowledge of this safety data sheet should be a prerequisite condition.

16.7 Classification method:

Calculation based on the hazards of the known components

16.8 SDS prepared by:

Company:	Fire Door Core Pty Ltd
Address:	52 Violet Street, Revesby
Postcode:	2212
City:	Sydney
Country:	Australia
E-mail:	info@firedoorcore.com.au

END OF SAFETY DATA SHEET