

# SAFETY DATA SHEET

## Section 1. Identification of the product and of the company / undertaking

### 1.1 Product Identifier

Product (trade) Name: Plycem CemDeck  
Generic Name: Fiber Cement Board

### 1.2 Relevant identified uses (and uses advised against)

Identified Uses: Structural noncombustible substrate floor decking or cladding elements – for further information refer to Product Installation Specifications on supplier's web site.

Advised Against: Unsupported flooring or where exposed to strong acids or oxidizing agents.

### 1.3 Details of the supplier of the Safety Data Sheet

Supplier U.S. Architectural Products, Inc.  
Address 103 Carnegie Centre, Suite 320, Princeton, New Jersey 08450  
Telephone 1-800-243-6677  
Email [sales@architecturalproducts.com](mailto:sales@architecturalproducts.com)  
Web [www.architecturalproducts.com](http://www.architecturalproducts.com)

### 1.4 Emergency telephone number 1-800-243-6677 Office Hours (08:00 – 17:00 EST, Mon – Fri)

## Section 2. Hazards Identification

### 2.1.1 GHS Classification according to 29 CFR 1910.1200

Article: a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use functions(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g. minute or trace amounts of a hazardous chemical, and does not pose a physical hazard or health risk to employees.

### 2.1.3 Additional Information

Dry working (drilling, sanding, cutting) can release dusts unless controlled – see Section 8

### 2.2 Label elements

Pictogram(s)	None
Signal Word	None
Hazards	None
Precautions	Wear protective gloves. IF DUST EXPOSURE TO SKIN: Wash with plenty of soap and water. IF DUST EXPOSURE TO EYES: Rinse eyes under running water until cleared of dust.
Supplemental	This article contains <1% unknown toxicity National Toxicology Program – No substances listed in the 14 <sup>th</sup> report on carcinogens International Agency for Research on Cancer – No substances listed in monographs

### 2.3 Other Hazards

Boards are heavy and awkward to transport – see Section 7

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## Section 3. Composition/Information on Ingredients

Substance	CAS Registry No.	Percentage in board Estimated Range
Alite, tricalcium silicate	12168-85-3	<5.0
Belite, dicalcium silicate	10034-77-2	<2.0
Aluminate, tricalcium aluminate	12042-78-3	<1.0
Ferrite, tetracalcium ferroaluminate	12068-35-8	<1.0
Calcium sulfate	778-18-9	<1.0
Free calcium oxide	1305-78-8	<0.5
Calcium carbonate	1317-65-3	10.0 – 40.0
Fiber mix – organic matter	9004-34-6	8.0 – 9.0
Hydrated tricalcium disilicate		25.0 – 35.0
Hydrated tetracalcium trisulfoaluminate		1.5 – 3.0
Hydrated tricalcium monosulfoaluminate		7.0 – 10.0
Hydrated hexacalcium aluminumferrite		6.0 – 9.0
Calcium hydroxide	1305-62-0	<20.0
Water	7732-18-5	6.0 – 10.0

The product is approximately 90% carbonated and hydrated on supply. Its calcium carbonate content is likely to increase through time at the expense of calcium hydroxide and calcium oxide. Any anhydrous calcium silicate and aluminate phases are likely to be slowly hydrated.

## Section 4. First Aid Measures

### 4.1 Description of first aid measures

**Ingestion:** unlikely under normal conditions of use; ingested dust may cause irritation or abrasion to the mouth and gastrointestinal tract. If swallowed, dilute by drinking large amounts of water, seek medical attention. Do not induce vomiting.

**Eye:** dust may cause irritation to the eyes as a result of mechanical abrasion and/or alkalinity (if Calcium oxide or hydroxide are present). Flush with water or saline for at least 15 minutes; seek medical attention if redness persists or if changes in vision occur.

**Skin:** dust may cause irritation as a result of mechanical abrasion and/or alkalinity (if Calcium oxide or hydroxide are present).

**Inhalation:** dust may cause irritation of the nose, throat and airways resulting in coughing and sneezing. Some individuals, particularly those with asthma and other pre-existing respiratory illness, may be particularly susceptible to effects. Remove to fresh air, if wheezing or shortness of breath develop, seek medical attention.

*Effects of prolonged and/or repeated exposure by inhalation:* respirable mineral dust ( including calcium carbonate, calcium sulphate, calcium aluminate and calcium silicate minerals): long term exposure to respirable dust in the workplace is associated with the development of pneumoconiosis (scarring of the lungs), increased risks of bronchitis and reduced life expectancy.

### 4.2 Most important symptoms and effects, both acute and delayed

**General:** product is considered relatively benign.

**Inhalation:** irritation of the airway from fine particles generated by mechanical working of the article.

**Skin contact:** prolonged contact by exposed moist/wet skin may show mild irritation.

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Eye contact: irritation may occur if product dust enters eye.

Ingestion: irritation may occur if ingested.

## 4.3 Indication of any immediate medical attaching and special treatment needed

Treat symptomatically.

## Section 5. Fire fighting measures

### 5.1 Extinguishing media

Suitable: Extinguishing measures appropriate to the local circumstances and surrounding environment.

Unsuitable: No additional information available

### 5.2 Special hazards

Building material classified noncombustible in accordance with ASTM E136 testing protocol.

Building material rated for zero flame spread and zero smoke development under surface burning characteristics testing standards of ASTM E-84 and ANSI / UL 723.

Small quantities of carbon monoxide and carbon dioxide may be generated.

### 5.3 Advice for fire fighters

Wear self-contained breathing apparatus.

## Section 6. Accidental Release Measures

### 6.1 Personal Precautions

#### 6.1.1 For non-emergency Personnel

Wear abrasion resistant gloves

#### 6.1.2 For emergency responders

Wear abrasion resistant gloves

### 6.2 Environmental Precautions

Do not flush into surface water or sanitary sewer systems.

### 6.3 Methods and material for containment and cleaning up

Small pieces should be collected and disposed of to an identified receptacle.

Dust should be removed using a high efficiency (HEPA) filter vacuum OR the area should be wetted with fine water spray before sweeping.

Safe for landfill disposal.

### 6.4 Reference to other sections

For personal protection see section 8

## Section 7. Handling & Storage

### 7.1 Precautions for safe handling

Wash hands thoroughly at the end of work and before breaks.

Do not smoke, eat or drink when handling boards.

High speed cutting tools should be avoided unless emission (dust) extraction is in place.

Individual loose boards should be carried vertically by two workmen – the boards are heavy.

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Allow material to acclimatize to ambient working conditions for 24 – 48 hours prior to fixing.

## 7.2 Conditions for safe storage, including and incompatibilities

Store flat in a dry well ventilated area.

Support load at 30 inches on centers.

Do not store upright or on edge.

## 7.3 Specific end use(s)

Noncombustible fiber cement board for structural substrate floor decking over supports not exceeding 24 inches on centers.

See product installation specifications.

## Section 8. Exposure controls / personal protection

### 8.1 Control parameters for workplace

Component	CAS #	ACGIH TLV	NIOSH REL	OSHA PEL
Portland Cement	65997-15-1	10 mg/m <sup>3</sup> (total) TWA	10 mg/m <sup>3</sup> (total) TWA 5 mg/m <sup>3</sup> (resp) TWA	50 mpcf TWA
Cellulose Fiber Dust	-	5mg/m <sup>3</sup> TWA 10 mg/m <sup>3</sup> STEL	1	15mg/m <sup>3</sup> (total) TWA 5 mg/m <sup>3</sup> (resp) TWA
Particulates Not Otherwise Regulated (other dusts)	-	10 mg/m <sup>3</sup> (total) TWA 5 mg/m <sup>3</sup> (resp) TWA	-	15 mg/m <sup>3</sup> (total) TWA 5 mg/m <sup>3</sup> (resp) TWA

### 8.2 Exposure controls

#### Engineering controls

Dry working of the materials (cutting, drilling, sawing, sanding) has the potential to generate fine dust particles – adequate ventilation should be sufficient to control worker exposure to airborne contaminants.

Apply positive ventilation in confined spaces if dust becomes evident.

Use on tool high efficiency particulate (HEPA) extraction where possible.

#### Eye Protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this to be necessary.

#### Hand Protection

Abrasion resistant gloves complying with an approved standard should be used when handling boards.

#### Respiratory Protection

Where dusts are generated and in the absence of engineering controls a properly fitted NIOSH approved quarter mask for dusts should be worn.

#### Skin & Body Protection

Exposed skin on the arms and legs should be covered to prevent abrasion injury when handling boards.

#### Environmental Controls

Wet down area before sweeping.

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## Section 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance: Grey sheet  
 Form: Solid  
 Upper/lower flammability/explosive limits: Not applicable  
 Odor: None  
 Vapor pressure: Not applicable  
 Odor threshold: Not applicable  
 Surface pH: 10-13 in presence of water  
 Relative density: 71 lbs. cu. ft.  
 Melting / Freezing Point: Not applicable  
 Water solubility: Slight  
 Initial boiling point and boiling range: Not applicable  
 Flash point: Not applicable  
 Evaporation rate: Not applicable  
 Flammability (solid, gas): Not flammable. UL listed rated zero for flame spread per ASTM E-84 and ANSI/UL 723. Rated noncombustible per ASTM E-136.  
 Partition coefficient: n-octanol/water: Not applicable  
 Auto-ignition temperature: Not applicable  
 Viscosity, kinematic: Not applicable

## Section 10. Stability & Reactivity

### 10.1 Reactivity

Stable inert article no adverse reactions foreseeable in anticipated conditions of use.

### 10.2 Chemical Stability

The article is chemically stable

### 10.3 Possibility of hazardous reactions

Stable under foreseeable conditions of storage and intended use.

### 10.4 Conditions to avoid

Highly acidic conditions

### 10.5 Incompatible materials

Strong acids

### 10.6 Hazardous decomposition products

Small quantities of carbon monoxide and carbon dioxide may be generated if the product is exposed to fire.

## Section 11. Toxicological Information

Component	Route	Species	Test	Exposure	Value	Unit
No components	*	*	*	*	*	*

**Acute Toxicity:** No data available

**Skin corrosion:** No data available

**Skin irritation:** No data available

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**Serious eye damage:** No data available  
**Eye irritation:** Dust may cause temporary irritation and watering.  
**Respiratory sensitization:** No data available  
**Skin sensitization:** No data available  
**Germ cell mutagenicity:** No data available  
**Carcinogenicity:** No data available  
**Reproductive toxicity:** No data available  
**STOT – single exposure:** No data available  
**STOT - repeated exposure:** No data available  
**Aspiration toxicity:** No data available

## Section 12. Ecological Information

### 12.1 Toxicity

Component	Route	Species	Test	Exposure	Value	Unit
No components	*	*	*	*	*	*

### 12.2 Persistence and degradability

Inert, not readily degradable

### 12.3 Bio-accumulative potential

No indication of bio-accumulation potential

### 12.4 Mobility in soil

No indication of mobility in soil

### 12.5 Results of PBT and vPvB assessment

No additional information available

### 12.6 Other adverse effects

No additional information available

## Section 13. Disposal considerations

### 13.1 Waste treatment methods

#### 13.1.1 Product/packaging disposal

Dispose of in accordance with national/local regulations.

#### 13.1.2 Waste treatment – relevant information

Dispose of in accordance with national/local regulations.

#### 13.1.3 Sewage disposal – relevant information

Avoid entry in to sewers and water courses.

#### 13.1.4 Other disposal recommendations

Dispose of in accordance with national/local regulations.

## Section 14. Transport information

**UN No.:** None

**Proper shipping name:** Not applicable

**Transport hazard class(es):** Not applicable

**Packing group:** Not applicable

**Environmental hazards:** Not applicable

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## Section 15. Federal Regulations

### 15.1 US Federal Regulations

TSCA list: All substances in this product are either listed or exempt

CERCLA Reportable Quantity: This product does not contain any substances with a CERCLA RQ.

SARA304 Reportable Quantity: This product does not contain any substances with a section 304 EHS RQ

SARA 311/312 Hazards: Not applicable

SARA 301: No substances subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: No substances subject to the reporting requirements of SARA Title III, Section 313.

Clean Air Act: This product does not contain any substance listed under the U.S. Clean Air Act.

### 15.2 US State Regulations

California Proposition 65: Wood dust is listed.

Minnesota "Right to Know": Portland cement and wood dust are listed.

New Jersey "Right to Know": Portland cement is listed

Pennsylvania "Right to Know": Portland cement is listed

Rhode Island "Right to Know": Portland cement and wood dust are listed.

## Section 16. Other information

HMIS information is not required upon a Safety Data Sheet under 29 CFR 1910.1200

Previous Version: January 19, 2017

Changes to previous version: issued to reflect classification under 29CFR 1910.1200 as an article

The information provided within this Safety Data Sheet is believed correct and to the best of our available knowledge as at its revision date. The information given should only be used as guidance for safe handling, use, processing, storage, transportation and disposal and should not be considered as obligation in respect of warranty of (technical) performance, quality (specification) or suitability for any particular application.