

#### IDENTIFICATION OF THE SUBSTANCE AND COMPANY

##### Product identifier

Substance name: DURAFirestop, DURAf<sup>®</sup>flex Firestop

##### Supplier

Supplier : Hiep Phu Corporation  
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#### COMPOSITION/ INFORMATION ON INGREDIENTS

Substance Name	CAS No	EC/List No	%
Cement	65997-15-1	266-043-4	15-30%
Calcium Hydroxide	1305-62-0	215-137-3	0-10%
Cellulose	9004-34-6	232-674-9	5-15%
Crystalline Silica (Quartz)	14808-60-7	238-878-4	20-40%
Perlite	130885-09-5	603-442-8	0-20%
Mica	12001-26-2	601-648-2	0-20%
Wollastonite	13983-17-0	237-772-5	10-40%

#### HAZARDS IDENTIFICATION

Dust from sawing or sanding may irritate the respiratory system, skin and eyes. Long term exposure may cause serious respiratory system conditions.

#### FIRST AID MEASURES

Inhalation : Remove person to fresh air.  
Skin Contact : Wash thoroughly with soap and water.  
Eye Contact : Wash eye cautiously with clean water for several minutes and seek medical attention.  
Ingestion : Drink plenty of water and seek medical attention immediately

Please note that should any symptoms persist, obtain medical assistance.

#### FIRE FIGHTING MEASURES

Suitable extinguishing media: Carbon dioxide (CO<sub>2</sub>), Foam, Water spray, Dry extinguishing powder. Do NOT use strong water jet.

Wear a self-contained breathing apparatus and chemical protective clothing. Collect contaminated fire extinguishing water separately, do not allow to enter drains or surface water.

### ACCIDENTAL RELEASE MEASURES

For non-emergency personnel: Do not breathe dust. Wear a dust mask if generated above exposure limits. Wear appropriate protective equipment and clothing during clean-up.

For emergency responders : No emergency procedures are expected to be necessary if materials used under ordinary conditions as recommended

Do not dry sweep dust accumulation or pick up large pieces.  
Collect dust or particulates using a vacuum cleaner with a HEPA filter.  
Avoid the generation of dusts during clean-up.

### HANDLING AND STORAGE

Wherever possible, practices likely to generate dust should be carried out in well-ventilated areas. Keep exposure to crystalline silica dust to a minimum, and minimize the quantities of dust in work areas. Minimise dust creation by using the recommended tooling and cutting methods.

If possible, wet the dust and sweep up solid. Dry sweeping should not be attempted. Vacuuming with an industrial vacuum outfitted with a high-efficiency particulate filter is recommended. Do not wash material down stormwater drains.

Work area should be cleaned regularly by wet sweeping or vacuuming. Avoid storage near food and beverages. Avoid contact with incompatible substances as listed after the next few sections. Store DURAflex board in a dry location. Avoid mechanical damage to the product, such as chipping of the edges and corners of the sheets. The product must be laid flat undercover on a smooth surface clear of the ground to avoid exposure to water or moisture.

### EXPOSURE CONTROL/ PERSONAL PROTECTION

#### Substance Dust Respirable (ACGIH-2017)

TWA OEL : 3mg/m<sup>3</sup>

#### Respirable Crystalline Silica (ACGIH-2017)

Quartz : 0.1  
Cristobalite : 0.05  
Tridymite : 0.05

Keep exposures to dust generated from cutting, drilling, routing, sawing or crushing, as low as possible. Perform cutting of boards in a well-ventilated area (outside) and use local exhaust ventilation to keep exposures below the recommended exposure limits.

When using power saws, use blades designed for calcium silicate siding. Use circular saws with a built-in dust collection container or shroud that functions as a hood, partially encloses the saw blade, that is connected to the local area ventilation system (such as shop vacuum).

Use a shop vacuum having a filter with 99% or greater efficiency (HEPA recommended), with an air-flow rate as specified by the saw manufacturer. Use of high efficiency disposable filter bags is recommended as a pre-filter in the shop vacuum to capture most of the dust. This will prolong the life of the cartridge filter and contain the dust to reduce exposure during disposal.

Eye and face protection : Avoid contact with eyes. Use safety glasses or goggles if irritant levels of dusts are present.  
Skin protection : Avoid repeated or prolonged skin contact.  
Respiratory protection : If exposure controls listed above are not implemented, use NIOSH N-95 respirators when cutting, drilling, sanding, etc.

**PHYSICAL AND CHEMICAL PROPERTIES**

Physical Form	: Solid sheets
Odour	: No characteristic odour
Colour	: Various
pH	: 10-12 when soaked in water
Density	: 0.9-1.1 g/cm <sup>3</sup>
Solubility in Water	: Insoluble

**STABILITY AND REACTIVITY**

Reactivity	: The product is nonreactive and stable.
Chemical stability	: Chemical on DURAflex board is nonreactive and stable.
Incompatible materials	: Hydrofluoric acid will dissolve silica and can generate silicon tetrafluoride, a corrosive gas. Contact with strong oxidizing agents such as fluorine, boron trifluoride, chlorine, trifluoride, manganese trifluoride or oxygen difluoride may cause fires and/or explosions. Furthermore, limestone is incompatible with acids and ammonium salts.

None known hazardous decomposition products.  
Avoid the creation of dust during processing, handling, and installation.

**TOXICOLOGY AND INFORMATION**

Fibre cement is non-toxic in its intact form. The following applies to respirable dust that may be generated during cutting, rebating, drilling, routing, sawing, crushing or otherwise abrading calcium silicate.

This product is not absorbed through the skin. Dust may dry out the skin. Dust may be irritating to eyes (mechanical irritation). Dust may cause upper respiratory tract irritation, resulting in coughing and sneezing. Certain susceptible individuals may experience wheezing (spasms of the bronchial airways) upon inhaling dust during cutting, rebating, drilling, routing, sawing, crushing or otherwise abrading calcium silicate, and when cleaning up, disposing of or moving the dust.

This product is not considered ecotoxic.

**DISPOSAL CONSIDERATION**

Dispose of material in accordance with local regulations. Never discharge directly into sewers or surface waters. Consult with environmental regulatory agencies for guidance on acceptable disposal practices. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

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