

# SOLIDROCK® FIBER CEMENT BOARD

## 1. IDENTIFICATION

### Product identifier

Solidrock® Fiber Cement Board

### Synonym(s)

Fiber Cement Board, Fiber Cement Panels

### Recommended use

Interior or exterior use.

### Recommended restrictions

Use in accordance with manufacturer's recommendations.

### Manufacturer / Importer / Supplier / Distributor information/Company name

USG Middle East Ltd

7410 (WASIL) Street #23, Cross 76 (Right)

Second Industrial City

Dammam 34326 – 4201, Kingdom of Saudi Arabia

Tel: +966 13 812 0995 / Fax: +966 13 812 1029

E-mail: info@usgme.com / marketing@usgme.com

Website: <https://www.usgme.com>

## 2. HAZARD(S) IDENTIFICATION

### Classification of the substance or mixture

#### Physical hazards

Not classified.

#### Health hazards

Not classified.

#### OSHA defined hazards

Not classified.

#### Label elements

##### Hazard symbol

None.

##### Signal word

None

##### Hazard statement

None.

##### Precautionary statement

###### Prevention

Observe good industrial hygiene practices.

###### Response

Get medical attention/advice if you feel unwell.

###### Storage

Store as indicated in Section 7.

###### Disposal

Dispose of in accordance with local, state, and federal regulations. Not classified.

###### Hazard(s) not otherwise classified (HNOC)

Not classified.

## 3. COMPOSITION/ INFORMATION ON INGREDIENTS

### Mixtures

Chemical name	CAS number
Portland Cement	65997-15-1
Cellulose	9004-34-6

---

**Composition comments**

All concentrations are in percent by weight unless ingredient is a gas.

The gypsum used to manufacture these panels contains respirable crystalline silica ranging up to 0.56 percent by weight, depending on source, as indicated by bulk sampling methods. Industrial hygiene laboratory testing using both personal and area sampling measured no detectable respirable crystalline silica when cutting the product by “score and snap,” rotary saw, or circular saw. Good work practices which minimize the extent of dust generation should be followed, and actual employee exposure must be determined by workplace industrial hygiene testing.

---

**4. FIRST-AID MEASURES****Inhalation**

Dust irritates the respiratory system, and may cause coughing and difficulties in breathing. Move injured person into fresh air and keep person calm under observation. Get medical attention if symptoms persist.

**Skin contact**

Contact with dust: Rinse area with plenty of water. Get medical attention if irritation develops or persists.

**Eye contact**

Dust in the eyes: Do not rub eyes. Flush thoroughly with water. If irritation occurs, get medical assistance.

**Ingestion**

Rinse mouth. Get medical attention if symptoms occur.

**Most important symptoms/effects, acute and delayed**

Under normal conditions of intended use, this material does not pose a risk to health. Dust may irritate throat and respiratory system and cause coughing.

**Indication of immediate medical attention and special treatment needed**

Provide general supportive measures and treat symptomatically.

**General information**

Ensure that medical personnel are aware of the material(s) involved.

---

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media**

Not applicable.

**Specific hazards arising from the chemical**

Not a fire hazard.

**Special protective equipment and precautions for firefighters**

Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Fire-fighting equipment/instructions**

Use standard firefighting procedures & consider the hazards of other involved materials.

**Specific methods**

Cool material exposed to heat with water spray and remove it if no risk is involved.

---

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

See Section 8 of the SDS for Personal Protective Equipment.

**Methods and materials for containment and cleaning up**

No specific clean-up procedure noted. For waste disposal, see Section 13 of the SDS.

**Environmental precautions**

Avoid discharge to drains, sewers, and other water systems.

---

**7. HANDLING AND STORAGE****Precautions for safe handling**

Use work methods like “score and snap” to minimize dust production. Avoid inhalation of dust and contact with skin and eyes. Wear appropriate personal protective equipment. Wash hands after handling. Observe good industrial hygiene practices. When moving board with a forklift or similar equipment, it is essential that the equipment be rated capable of handling the loads. The forks should always be long enough to extend completely through the width of the load. Fork spacing between supports should be one half the length of the panels or base being handled so that a maximum of 90 CM extends beyond the supports on either end.

**Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, well-ventilated place. Store away from incompatible materials.

Protect product from physical damage. Protect from weather and prevent exposure to sustained moisture. Skyrock Fiber Cement Boards panels should be stored flat.

---

**Occupational exposure limits  
US. OSHA Table Z-1 Limits for Air  
Contaminants (29 CFR 1910.1000)**

Components	CAS number	Value	Form
Portland Cement (CAS 65997-15-1)	PEL	5 mg/m <sup>3</sup>	Respirable fraction
Cellulose (CAS 9004-34-6)	PEL	15 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> 15 mg/m <sup>3</sup>	Total dust Respirable fraction Total dust

**US. ACGIH Threshold Limit Value**

Components	CAS number	Value	Form
Portland Cement (CAS 65997-15-1)	TWA	10 mg/m <sup>3</sup>	Inhalable fraction.
Cellulose (CAS 9004-34-6)	TWA	10 mg/m <sup>3</sup>	

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	CAS number	Value	Form
Portland Cement (CAS 65997-15-1)	TWA	5 mg/m <sup>3</sup>	Respirable.
Cellulose (CAS 9004-34-6)	TWA	10 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> 10 mg/m <sup>3</sup>	Total Respirable. Total

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls personal protective equipment**

Provide sufficient ventilation for operations causing dust formation. Observe occupational exposure limits and minimize the risk of exposure.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

Wear approved safety goggles.

**Skin protection Hand protection**

It is a good industrial hygiene practice to minimize skin contact. For prolonged or repeated skin contact use suitable protective gloves.

**Other**

Normal work clothing (long sleeved shirts and long pants) is recommended.

**Respiratory protection**

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure.

Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use. Observe any medical surveillance requirements.

**Thermal hazards**

None

**General hygiene considerations**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Observe any medical surveillance requirements.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Paper faced with gypsum core.

### Physical state

Solid.

### Form

Panel.

### Color

Off-white to tan.

### Odor

Low to no odor.

### Odor threshold

Not applicable.

### pH

8-9

### Melting point/freezing point

Not applicable.

### Initial boiling point and boiling range

Not applicable.

### Flash point

Not applicable.

### Evaporation rate

Not applicable.

### Flammability (solid, gas)

Not applicable.

### Upper/lower flammability or explosive limits

#### Flammability limit - lower (%)

Not applicable.

#### Flammability limit - upper (%)

Not applicable.

#### Explosive limit - lower (%)

Not applicable.

#### Explosive limit - upper (%)

Not applicable.

### Vapor pressure

Not applicable.

### Vapor density

Not applicable.

### Relative density

0.9 - 1 (Gypsum) (H<sup>2</sup>O=1)

### Solubility(ies)

Insoluble.

### Partition coefficient (n-octanol/water)

Not applicable.

### Auto-ignition temperature

Not applicable.

### Decomposition temperature

1450 °C

### Viscosity

Not applicable.

### Other information

#### Bulk density

1300 kg/m<sup>3</sup>

#### Particle size

Varies.

#### VOC (Weight %)

0 %

#### Formaldehyde Emissions

Complies with Class E1 for Formaldehyde Emissions

## 10. STABILITY AND REACTIVITY

### Reactivity

Not available.

### Chemical stability

Material is stable under normal conditions.

### Possibility of hazardous reactions

Hazardous polymerization does not occur.

### Conditions to avoid

Contact with incompatible materials.

### Incompatible materials

Strong oxidizing agents. Strong acids.

### Hazardous decomposition products

Calcium oxides, carbon dioxide, and carbon monoxide.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Ingestion Inhalation

Not likely, due to the form of the product.

Inhalation of dusts may cause respiratory irritation.

#### Skin contact

Under normal conditions of intended use, this material does not pose a skin hazard. Gypsum was not found to be a skin irritant (2).

#### Eyes contact

Mechanical processing may generate dust. Direct contact with eyes may cause temporary irritation (1).

#### Symptoms related to the physical, chemical and toxicological characteristics

Under normal conditions of intended use, this material does not pose a risk to health.

---

**Information on toxicological effects****Acute toxicity**

Not expected to be a hazard under normal conditions of intended use.

**Skin corrosion/irritation**

Gypsum was not found to be a skin irritant.

**Serious eye damage/eye irritation**

Gypsum does not cause serious eye damage or irritation.

**Respiratory or skin sensitization**

No data available, but based on results from the skin sensitization study, Portland Cement is not expected to be a respiratory sensitizer.

**Skin sensitization**

Not a skin sensitizer (2).

**Germ cell mutagenicity**

No evidence of mutagenic potential exists (3,4,5).

**Carcinogenicity**

No evidence of carcinogenic potential exists (6).

**Reproductive toxicity**

No evidence of reproductive toxicity exists (2).

**Specific target organ toxicity - Reproductive toxicity**

No data available, but none expected.

**Specific target organ toxicity - repeated exposure**

No data available, but none expected.

**Aspiration hazard**

Due to the physical form of the product it is not an aspiration hazard.

**Chronic effects**

No specific acute or chronic health impact noted.

---

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
Portland Cement (CAS 65997-15-1)		
<b>Aquatic fish</b>	LC50	Fathead minnow ( <i>Pimephales promelas</i> ) > 1970 mg/l, 96 hours

---

**Persistence and degradability**

Not applicable for the salt of inorganic compounds. Portland Cement dissolves in water without undergoing chemical degradation.

**Bioaccumulative potential**

Bioaccumulation is not expected.

**Mobility in soil**

Portland Cement has a low potential for adsorption to soil.

**Other adverse effects**

None expected.

---

**13. DISPOSAL CONSIDERATIONS****Disposal instructions**

Dispose in accordance with applicable federal, state, and local regulations. Recycle responsibly.

**Local disposal regulations**

Dispose of in accordance with local regulations.

**Hazardous waste code**

Not regulated.

**Waste from residues / unused products**

Dispose of in accordance with local regulations.

**Contaminated packaging**

Dispose of in accordance with local regulations.

---

**14. TRANSPORT INFORMATION**

**DOT**

Not regulated as dangerous goods.

**ADR**

Not regulated as a dangerous good.

**IATA**

Not regulated as a dangerous good.

**IMDG**

Not regulated as a dangerous good.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable. This product is a solid. Therefore, bulk transport is governed by IMSBC code.

**15. REGULATORY INFORMATION**

**Saudi Arabian Inventory of Chemical Substance:**

CAS#	65997-15-1	Portland Cement
CAS#	9004-34-6	Cellulose

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION**

**Issue date**

20-January-2021

**Revision date**

1-February-2023

**Version #**

02

NFPA Ratings:

Health: 1

Flammability: 0

Physical hazard: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

**NFPA Ratings:**



**Abbreviations and acronyms**

NFPA: National Fire Protection Association.

1. US National Library of Medicine (NLM) (1998). Hazardous Substances Data Bank (HSDB).
2. Tested by LG Life Science/Toxicology Center, Korea (2002). National Institute of 3. Dopp E et al. (1995). Environ. Health Perspect. 103(3), 268-271.
4. Cremer H.H. et al. (1988). Wiss. Umwelt. 4, 202-205.
5. Fujita H et al. (1988). Kenkya Nenpo-Tokyo-Toritsu Eisei Kenkynsho. 39, 343-350.
6. Shainberg et al. (1989). Advanced Soil Sci. 9, 1-111.

**Disclaimer**

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

**Notice:**

As we are involved in constant products development; this document information is subject to change without prior notice. Please always refer to [usgme.com](http://usgme.com) for the updated products information document.

©2023 Factory of USG Middle East LTD. Co. All rights reserved.

