

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

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Second Industrial City

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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.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

**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 ³	Respirable fraction
Cellulose (CAS 9004-34-6)	PEL	15 mg/m ³ 5 mg/m ³ 15 mg/m ³	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 ³	Inhalable fraction.
Cellulose (CAS 9004-34-6)	TWA	10 mg/m ³	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	CAS number	Value	Form
Portland Cement (CAS 65997-15-1)	TWA	5 mg/m ³	Respirable.
Cellulose (CAS 9004-34-6)	TWA	10 mg/m ³ 5 mg/m ³ 10 mg/m ³	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) (H²O=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/m³

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)		
Aquatic fish	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:

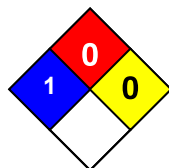
Health: 1

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.

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