SECUROCK®
SUBSTRATES

SECUROCK™ BRAND GLASS-MAT SHEATHING

1. IDENTIFICATION

Product identifier
Securock™ Brand Glass-Mat Sheathing
Additional Product
USG Securock® UltraLight Glass-Mat Sheathing Firecode® X
Synonym(s)
Gypsum Panels, Drywall, Plasterboard, Wallboard
Recommended use
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

Physical hazards
Not classified.
Health hazards
Not classified.
OSHA defined hazards
Not classified.
Label elements
Hazard symbol
None.
Signal word
Warning
Hazard statement
Harmful to aquatic life.
Precautionary statement
Prevention
Avoid release to the environment.
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.
Hazard(s) not otherwise classified (HNOC)
None known
Supplemental information
None.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Mixtures

Chemical name	CAS number	%
Calcium sulfate dihydrate (alternative CAS 10101-41-4)	13397-24-5	85
Continuous filament glass fiber	65997-17-3	< 10
Sodium pyrithione	3811-73-2	< 0.05

USG ME
INNOVATIVE SOLUTIONS. EVERYTIME.

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 % by weight, depending on source, as indicated by bulk sampling methods. Industrial hygiene 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

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

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

Eye contact

Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists. Dust in the 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.

General fire hazards

No unusual fire or explosion hazards noted.

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 which 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 4' extends beyond the supports on either end.
Follow traditional building practices; such as management of water away from the interior of the structure to avoid the growth of mold, mildew and fungus. Remove any building products suspected of being exposed to sustained moisture and considered conducive to mold growth from the job site. Gypsum panels are very heavy, awkward loads posing the risk of severe back injury. Use proper lifting techniques.

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. Gypsum Association literature (GA-801-07) recommends storing board flat to avoid damaging edges, warping the board and the potential safety hazards of the board falling over. However, in other situations, storing the board flat may cause a tripping hazard or exceed floor limit loads. If stacking board vertically, leave at least 4 inches from the wall to decrease the risk of falling board and no more than 6 inches to avoid too much lateral weight against the wall.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTIONV

Occupational exposure limits

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

Components	CAS number	Value	Form
Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)	PEL	5 mg/m³	Respirable fraction
		15 mg/m³	Total dust

US. ACGIH Threshold Limit Values

Components	CAS number	Value	Form
Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS13397-24-5)	TWA	10 mg/m³	Inhalable fraction

US. NIOSH: Pocket Guide to Chemical Hazards

Components	CAS number	Value	Form
Calcium sulfate dihydrate (Alternative CAS 10101-41-4) (CAS13397-24-5)	TWA	5 mg/m³	Respirable
Continuous filament glass fiber (CAS 65997-17-3)	TWA	10 mg/m³ 3 fibers/cm³ 3 fibers/cm³ 5 mg/m³ 5 mg/m³	Total Fibrous dust Fiber Fiber, total fibers, total dust

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.

Other

Applicable for industrial settings only. Normal work clothing (long sleeved shirts and long pants) is recommended.

Respiratory protection

imits (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 respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Paper faced with gypsum core.
Physical state
Solid.
Form
Powder. Panel.
Color
Gray to off-white.
Odor
Low to no odor.
Odor threshold
Not applicable.
pH
6 - 8
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
2.32 (H^2O=1)
Solubility(ies)
0.26 g/100 g (H^2O)
Partition coefficient (n-octanol/water)
Not applicable.
Auto-ignition temperature
Not applicable.
Decomposition temperature
1450 °C
Viscosity
Not applicable.
Other information
Bulk density
760 - 920 kg/m^3
Explosive properties
Not explosive.
Oxidizing properties
Not oxidizing.
Particle size
Varies.
VOC (Weight %)
Not applicable.

10. STABILITY AND REACTIVITY

Reactivity
The product is stable and non reactive under normal conditions of use, storage and transport.
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 acids. Strong oxidizing agents.
Hazardous decomposition products
Calcium oxides, carbon dioxide, and carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Ingestion
Not likely, due to the form of the product.
Inhalation
Gypsum dust has an irritant action on mucous membranes of the upper respiratory tract and eyes (1). Prolonged inhalation may be harmful.
Skin contact
Dust or powder may irritate the skin. 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
Dust may irritate the eyes. Mechanical processing may generate dust. Direct contact with eyes may cause temporary irritation (1).
Symptoms related to the physical, chemical and toxicological characteristics
Dusts may irritate the respiratory tract, skin and eyes. 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 acutely toxic.

Components	Species	Test Results
Sodium pyrithione (CAS 3811-73-2) **Acute** Oral LC50	Rat	1500 mg/kg

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

Respiratory sensitization

No data available, but based on results from the skin sensitization study, calcium sulfate 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).

IARC Monographs. Overall Evaluation of Carcinogenicity

Continuous filament glass fiber (CAS 65997-17-3) 3 Not classifiable as to carcinogenicity to humans.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity

No evidence of reproductive toxicity exists (2).

Specific target organ toxicity - single exposure

Not toxic to lung tissue.

Specific target organ toxicity - repeated exposure

Not toxic to lung tissue (6).

Aspiration hazard

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

Further information

Pre-existing skin and respiratory conditions including dermatitis, asthma and chronic lung disease might be aggravated by exposure.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life.

Persistence and degradability

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

Bioaccumulative potential

Bioaccumulation is not expected.

Mobility in soil

Calcium sulfate has a low potential for adsorption to soil. If water is applied, gypsum dissolves and the calcium and sulfate ions are mobile and penetrate the subsoil (7).

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

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

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.
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#	13397-24-5	Calcium sulfate dihydrate
CAS#	65997-17-3	Continuous filament glass fiber
CAS#	3811-73-2	Sodium pyrithione

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

Issue date
20-January-2020
Revision date
1-February-2023
Version #
02
Further information
The International Agency for Research on Cancer (IARC) in June, 1987, categorized continuous filament glass fibers as not classifiable with respect to human carcinogenicity (Group 3). The evidence from human as well as animal studies was evaluated by IARC as insufficient to classify continuous filament glass fiber as a possible, probable, or confirmed cancer causing material.
The ACGIH has established a TLV (Threshold Limit Value or recommended exposure limit) for continuous filament glass fiber of 1 fiber per cubic centimeter of air for respirable fibers and 5 mg per cubic meter of air for inhalable glass fiber dust. These levels were established to prevent mechanical irritation of the upper airways.
IARC, NTP (US National Toxicology Program) and OSHA (US Occupational Safety and Health Administration) do not list continuous filament glass fibers as a carcinogen.
As manufactured, continuous filament glass fibers in this product are not respirable. Continuous filament glass products that are chopped, crushed or severely mechanically processed during manufacturing or use may contain a very small amount of respirable particulate, some of which may be glass shards.

NFPA Ratings:
Health: 1
Flammability: 0
Physical hazard: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

HMIS® ratings
Personal protection: E
NFPA Ratings:

List of abbreviations

NFPA: National Fire Protection Association.

Abbreviations and acronyms

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 Environmental Research (NIER).
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. Clouter et al. (1998). Inhal. Toxicol. 10, 3-14.
7. Shainberg et al. (1989). Advanced Soil Sci. 9, 1-111.

Disclaimer

United States Gypsum Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. 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** for the updated products information document.

USG ME
INNOVATIVE SOLUTIONS, EVERYTIME.