

# USG Sheetrock® Brand Mold Tough® FIRECODE® Core Gypsum Panels

## 1. Identification

<b>product identifier</b>	Sheetrock® Brand Mold Tough® FIRECODE® Core Gypsum Panels
<b>Synonym(s)</b>	Gypsum Panels, Drywall, Plasterboard, Wallboard
<b>Recommended use</b>	Interior use.
<b>Recommended restrictions</b>	Use in accordance with manufacturer's recommendations.
<b>Manufacturer/Importer/Supplier</b>	USG Middle East Ltd
<b>Distributor information/Company name</b>	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 Website: <a href="https://www.usgboral.com/en_me/">https://www.usgboral.com/en_me/</a>

## 2. Hazard(s) identification

<b>Physical hazards</b>	Not classified.
<b>Health hazards</b>	Not classified.
<b>OSHA defined hazards</b>	Not classified.
<b>Label elements</b>	
<b>Hazard symbol</b>	None.
<b>Signal word</b>	None.
<b>Hazard statement</b>	None.
<b>Precautionary statement</b>	
<b>Prevention</b>	Observe good industrial hygiene practices.
<b>Response</b>	Get medical attention/advice if you feel unwell.
<b>Storage</b>	Store as indicated in Section 7.
<b>Disposal</b>	Dispose of in accordance with local regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.

## 3. Composition/information on ingredients

### Mixtures

Chemical name	CAS number	%
Calcium sulfate dihydrate (alternative CAS 10101-41-4)	13397-24-5	≥ 85
Cellulose	9004-34-6	< 5
Sodium pyrrithione	3811-73-2	< 0.25

**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 actions 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 and 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 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 1.2 M 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 10 CM from the wall to decrease the risk of falling board and no more than 15 CM to avoid too much lateral weight against the wall.

**8. Exposure controls/personal protection**

**Occupational exposure limits**

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

Components	Type	Value	Form
Calcium sulfate dihydrate (alternative CAS10101-41-4 ) (CAS 13397-24-5)	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 Values**

Components	Type	Value	Form
Calcium sulfate dihydrate (alternative CAS 10101-41-4 ) (CAS 13397-24-5)	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	Type	Value	Form
Calcium sulfate dihydrate (alternative CAS10101-41-4 ) (CAS 13397-24-5)	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**

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**

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 (Gypsum) (H<sub>2</sub>O=1)

**Solubility(ies)**

0.26 g/100 g (H<sub>2</sub>O)

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

Not applicable.

**Auto-ignition temperature**

Not applicable.

**Decomposition temperature**

1450 °C

**Viscosity**

Not applicable.

**Other information****Bulk density**

673 kg/m<sup>3</sup>

**Particle size**

Varies.

**VOC (Weight %)**

0 %

**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.

**Hazardous decomposition products**

Calcium oxides, carbon dioxide, and carbon monoxide.

## 11. Toxicological information

### Information on likely routes of exposure

#### Ingestion

#### Inhalation

#### Skin contact

#### Eye contact

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

Not likely, due to the form of the product.

Mechanical processing may generate dust. Gypsum dust has an irritant action on mucous membranes of the upper respiratory tract and eyes (1).

Under normal conditions of intended use, this material does not pose a skin hazard.

Gypsum was not found to be a skin irritant (2).

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

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

### Information on toxicological effects

#### Acute toxicity

#### Skin corrosion/irritation

#### Serious eye damage/eye

#### irritation

#### Respiratory or skin sensitization

#### Skin sensitization

#### Germ cell mutagenicity

#### Carcinogenicity

#### Reproductive toxicity

#### Specific target organ toxicity -

#### Reproductive toxicity

#### Specific target organ toxicity -

#### repeated exposure

#### Aspiration hazard

#### Further information

Low hazard.

Gypsum was not found to be a skin irritant.

Gypsum does not cause serious eye damage or irritation.

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

Not a skin sensitizer (2).

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

No evidence of carcinogenic potential exists (6).

No evidence of reproductive toxicity exists (2).

Not toxic to lung tissue.

Not toxic to lung tissue (6).

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

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

## 12. Ecological information

### Ecotoxicity

The product contains a substance which is very toxic to aquatic organisms.

#### Components

Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)

#### Aquatic

Fish

LC50

Fathead minnow (*Pimephales promelas*) > 1970 mg/l, 96 hours

#### 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

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 a hazardous material by DOT.

### 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 IMS-BC code.

## 15. Regulatory information

### Saudi Arabian Inventory of Chemical Substance:

CAS#	13397-24-5	Calcium sulfate dihydrate
CAS#	9004-34-6	Cellulose
CAS#	3811-73-2	Sodium pyrrithione

## 16. Other information, including date of preparation or last revision

### Issue date

1-September-2019

### Revision date

-

### Version #

1

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 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). Kenkyu 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.