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# MOISTURE RESISTANT (MR) GYPSUM BOARD

#### 1. IDENTIFICATION

**Product identifier** USG Middle East Moisture Resistant (MR) Gypsum Board

## Synonym(s)

USG ME Moisture Resistant (MR) Gypsum Board, Skyrock<sup>®</sup> Moisture Resistant (MR), Skyrock<sup>®</sup> Ecoblock Moisture Resistant (MR) Perforated Acoustical Gypsum Board, Soundblock Moisture Resistant (MR) Perforated Gypsum Ceiling, Painted Moisture Resistant (MR) Gypsum Ceiling, Shades Moisture Resistant (MR) Gypsum Ceiling **Recommended use** 

Interior 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 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.

Hazard(s) not otherwise classified (HNOC)

None known.

Mixtures

#### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

Mixtures		
Chemical name	CAS number	%
Calcium sulfate dihydrate (alternative CAS 10101-41-4)	13397-24-5	> 80
Cellulose	9004-34-6	< 15
Crystalline Silica	14808-60-7	< 5
Starch	9005-25-8	< 5



### **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. <b>Skin contact</b> Contact with dust: Rinse area with plenty of water. Get medical attention if irritation develops or persists. <b>Eye contact</b> Dust in the eyes: Do not rub eyes. Flush thoroughly with water. If irritation occurs, get medical assistance. <b>Ingestion</b> Rinse mouth. Get medical attention if symptoms occur. <b>Most important symptoms/effects, acute and delayed</b> 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. <b>Indication of immediate medical attention and special treatment needed</b> Provide general supportive measures and treat symptomatically. <b>General information</b> Ensure that medical personnel are aware of the material(s) involved.
5. FIRE-FIGHTING MEASURES	<ul> <li>Suitable extinguishing media</li> <li>Use fire-extinguishing media appropriate for surrounding materials.</li> <li>Unsuitable extinguishing media</li> <li>Not applicable.</li> <li>Specific hazards arising from the chemical</li> <li>Not a fire hazard.</li> <li>Special protective equipment and precautions for firefighters</li> <li>Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.</li> <li>Self-contained breathing apparatus and full protective clothing must be worn in case of fire.</li> <li>Fire-fighting equipment/instructions</li> <li>Use standard firefighting procedures &amp; consider the hazards of other involved materials.</li> <li>Specific methods</li> <li>Cool material exposed to heat with water spray and remove it if no risk is involved.</li> </ul>
6. ACCIDENTAL RELEASE MEASURES	<ul> <li>Personal precautions, protective equipment and emergency procedures</li> <li>See Section 8 of the SDS for Personal Protective Equipment.</li> <li>Methods and materials for containment and cleaning up</li> <li>No specific clean-up procedure noted. For waste disposal, see Section 13 of the SDS.</li> <li>Environmental precautions</li> <li>Avoid discharge to drains, sewers, and other water systems.</li> </ul>
7. HANDLING AND STORAGE	<b>Precautions for safe handling</b> 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	CAS number	Value	Form
Calcium sulfate dihydrate (alternative CAS10101-41-4 ) (CAS13397-24-5)	PEL	5 mg/m³	Respirable fraction
Cellulose (CAS 9004-34-6)	PEL	15 mg/m³ 5 mg/m³ 15 mg/m³	Total dust. Respirable fraction. Total dust

### 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)	TWA	10 mg/m <sup>3</sup>	Inhalable fraction
Cellulose (CAS 9004-34-6)	TWA TWA	10 mg/m <sup>3</sup>	Respirable fraction

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

Components	CAS number	Value	Form
Calcium sulfate dihydrate (alternative CAS 10101-41-4	TWA	5 mg/m <sup>3</sup>	Respirable.
(CAS 13397-24-5) Cellulose (CAS 9004-34-6)	TWA TWA	10 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> 10 mg/m <sup>3</sup>	Total Respirable. Tota

#### **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.

#### 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 ex- posure 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 protec- tion 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	Appearance	Vapor pressure		
CHEMICAL PROPERTIES	Physical state	Not applicable.		
	Solid.	Vapor density		
	Form	Not applicable.		
	Panel.	Relative density		
	Color	2.32(Gypsum)(H <sup>2</sup> O=!)		
	Gray to off-white.	Solubility(ies)		
	Odor	0.26g/100g (H <sup>2</sup> O)		
	Low to no odor.	Partition coefficient (n-octanol/water)		
	Odor threshold	Not applicable.		
	Not applicable.	Auto-ignition temperature		
	рН	Not applicable.		
	6-8	Decomposition temperature		
	Melting point/freezing point	1450 °C.		
	Not applicable.	Viscosity		
	Initial boiling point and boiling range	Not applicable.		
	Not applicable.	Other information		
	Flash point	Bulk density		
	Not applicable.	750-820 kg/m <sup>3</sup>		
	Evaporation rate	Particle size		
	Not applicable.	Varies.		
	Flammability (solid, gas)	VOC (Weight %)		
	Not applicable.	0 %		
	Upper/lower flammability or explosive limits	Formaldehyde Emissions		
	Flammability limit - lower (%)	Complies with Class E1 for Formaldehyde Emissions		
	Not applicable.			
	Flammability limit - upper (%)			
	Not applicable.			
	Explosive limit - lower (%)			
	Not applicable.			
	Explosive limit - upper (%)			
	Not applicable.			
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 monoxid	de.		
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11. TOXICOLOGICAL	Information on likely routes of exposure			
INFORMATION	Not likely, due to the form of the product.			
	Ingestion Inhalation			
	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.			
	Skin contact			
	Gypsum was not found to be a skin irritant (2).			
		contact with eyes may cause temporary irritation (1).		
	Eye contact			
	Under normal conditions of intended use, this ma	aterial does not pose a risk to health.		

# Symptoms related to the physical, chemical and toxicological characteristics Information on toxicological effects

Low hazard.

#### Acute toxicity

Gypsum was not found to be a skin irritant.

## Skin corrosion/irritation

Gypsum does not cause serious eye damage or irritation.

#### Serious eye damage/eye 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).

#### **Respiratory or skin sensitization**

sulfate is not expected to be a respiratory sensitizer.

Not a skin sensitizer (2).

#### Skin sensitization

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

#### Germ cell mutagenicity

No evidence of carcinogenic potential exists (6).

#### Carcinogenicity

No evidence of reproductive toxicity exists (2).

**Reproductive toxicity** 

Not toxic to lung tissue.

#### Specific target organ toxicity - Reproductive toxicity

Not toxic to lung tissue (6).

#### Specific target organ toxicity - Repeated exposure

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

#### **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 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
Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)	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 Mobility in soil	Bioaccumulative potential Mobility in soil 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 expect	red.

#### 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	DOT
INFORMATION	Not regulated as a hazardous material by DOT.
	IATA Not regulated as a dangerous good
	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
	This product is a solid. Therefore, bulk transport is governed by IMS- BC code.
15. REGULATORY	Saudi Arabian Inventory of Chemical Substance:
INFORMATION	CAS# 13397-24-5 Calcium sulfate dihydrate
	CAS# 9004-34-6 Cellulose
	CAS# 14808-60-7 Crystalline Silica
	CAS# 9005-25-8 Starch
16. OTHER INFORMATION,	Issue date
INCLUDING DATE OF	17-August-2021
PREPARATION OR	Revision date
LAST REVISION	1-February-2023
	Version #
	02
	Further information
	NFPA Ratings: Health: 1
	Flammability: O
	Physical hazard: 0
	Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe
	NFPA Ratings
	$\diamond$
	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). Kenkya Nenpo-Tokyo-Toritsu Eisei Kenkynsho. 39, 343-350. 6. Shainberg et al. (1989). Advanced Soil Sci. 9, 1-111.
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