

# MONOLITHIC ACOUSTICAL CEILING (MAC)

## 1. IDENTIFICATION

**Product identifier**

Monolithic Acoustical Ceiling (MAC)

**Synonym(s)**

Gypsum Panels

**Recommended use**

Interior 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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## 2. HAZARD(S) IDENTIFICATION

**Physical hazards**

Not classified.

**Health hazards**

Not classified.

**Environmental 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.

**Other hazards which do not result in GHS classification**

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	> 90
Cellulose	65996-61-4	< 5
Fiberglass	65997-17-3	< 2

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**Composition comments**

All concentrations are in percent by weight. Occupational Exposure Limits for impurities are listed in Section 8. The gypsum used to manufacture these panels contains respirable crystalline silica ranging up to 0.4 percent by weight, depending on source, as indicated by bulk sampling methods. Industrial hygiene testing coordinated by Gypsum Association of North America on the cutting of gypsum wallboard from each of the seven members detected no respirable crystalline silica (1). The industrial hygiene testing included many modalities of handling and installing gypsum board such as cutting the product by “score and snap”, rotary saw, or circular saw. Although the industrial hygiene testing results showed no detectable RCS, good work practices which minimize the extent of dust generation should be followed.

(1) Evaluation of Potential Exposure to Respirable Crystalline Silica When Sizing Drywall, Gypsum Association 2015 Study, October 10, 2017.

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**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.

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**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.

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**Personal precautions, protective equipment and emergency procedures**

Avoid formation of dust. Use personal protection recommended in Section 8 of the SDS.

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

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

**Other issues relating to spills and releases**

Clean up in accordance with all applicable regulations.

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**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.

**4. FIRST-AID MEASURES****5. FIRE-FIGHTING MEASURES****6. ACCIDENTAL RELEASE MEASURES****7. HANDLING AND STORAGE**

**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.

**Control parameters****Occupational exposure limits**

Components	CAS number	Value	Form
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.025 mg/m <sup>3</sup>	Respirable dust.

**US. ACGIH Threshold Limit Values**

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.

**Impurities**

Components	CAS number	Value	Form
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.025 mg/m <sup>3</sup>	Respirable 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. 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.

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

<b>Appearance</b> Fiberglass face on paper with gypsum core paper back.	<b>Vapor pressure</b> Not applicable.
<b>Physical state</b> Semi-solid.	<b>Vapor density</b> Not applicable.
<b>Form</b> Solid. Panel.	<b>Relative density</b> 2.32 (Gypsum)(H <sup>2</sup> O=1)
<b>Color</b> Gray to off-white.	<b>Solubility(ies)</b> 0.26 g/100 g (H <sup>2</sup> O)
<b>Odor</b> Low to no odor.	<b>Partition coefficient (n-octanol/water)</b> Not applicable.
<b>Odor threshold</b> Not applicable.	<b>Auto-ignition temperature</b> Not applicable.
<b>pH</b> 6 - 8	<b>Decomposition temperature</b> 1450 °C
<b>Melting point/freezing point</b> Not applicable.	<b>Viscosity</b> Not applicable.
<b>Initial boiling point and boiling range</b> Not applicable.	<b>Other information</b>
<b>Flash point</b> Not applicable.	<b>Bulk density</b> 500-550 kg/m <sup>3</sup>
<b>Evaporation rate</b> Not applicable.	<b>Oxidizing properties</b> <5 g/l
<b>Flammability (solid, gas)</b> Not applicable.	<b>Particle size</b> Varies.
<b>Upper/lower flammability or explosive limits</b>	<b>Specific gravity</b> 2.32 (Gypsum) (H <sup>2</sup> O = 1)
<b>Flammability limit - lower (%)</b> Not applicable.	<b>VOC (Weight %)</b> 0 %
<b>Flammability limit - upper (%)</b> Not applicable.	<b>Formaldehyde Emissions</b> Complies with Class E1 for Formaldehyde Emissions
<b>Explosive limit - lower (%)</b> Not applicable.	
<b>Explosive limit - upper (%)</b> Not applicable.	

10. STABILITY AND  
REACTIVITY

<b>Reactivity</b> The product is stable and non reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b> Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b> Hazardous polymerization does not occur.
<b>Conditions to avoid</b> Contact with incompatible materials.
<b>Incompatible materials</b> Strong oxidizing agents. Strong acids.
<b>Hazardous decomposition products</b> Calcium oxides, carbon dioxide, and carbon monoxide.

11. TOXICOLOGICAL  
INFORMATION

<b>Information on likely routes of exposure</b>
<b>Ingestion</b> May cause discomfort if swallowed.
<b>Inhalation</b> Dust may irritate respiratory system. Prolonged inhalation may be harmful.
<b>Skin contact</b> Dust or powder may irritate the skin. Frequent or prolonged contact may defat and dry the skin,leading to discomfort and dermatitis.
<b>Eyes contact</b> Dust may irritate the eyes.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b> Not expected to be a hazard under normal conditions of intended use.

12. ECOLOGICAL  
INFORMATION

**Delayed and immediate effects, including chronic effects from short and long-term exposure**

Occupational exposure to the substance or mixture may cause adverse effects.

**Numerical values of toxicity**

**Acute toxicity**

Not expected to be acutely toxic.

**Skin corrosion/irritation**

Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation**

Direct contact with eyes may cause temporary irritation.

**Respiratory or skin sensitization**

**Respiratory sensitization**

Not a respiratory sensitizer.

**Skin sensitization**

This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity**

This product is not expected to increase the risk of cancer. Repeated and prolonged exposures to high levels of respirable crystalline silica may cause cancer. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.

**ACGIH Carcinogens**

Crystalline silica (Quartz) (CAS 14808-60-7)                      A2 Suspected human carcinogen.

**IARC Monographs. Overall Evaluation of Carcinogenicity risks to humans**

Crystalline silica (Quartz) (CAS 14808-60-7)                      1 Carcinogenic to humans.

**Reproductive toxicity**

Not listed.

**Specific target organ toxicity - single exposure**

Not regulated.

**Specific target organ toxicity - repeated exposure**

Not classified.

**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.

**Ecotoxicity**

The product is 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) <b>Aquatic</b> fish	LC50	Fathead minnow (Pimephales promelas) > 1970 mg/l, 96 hours

**Persistence and degradability**

The product is not readily biodegradable.

**Bioaccumulative potential**

No data available for this product.

**Mobility in soil**

Expected to have low mobility in soil.

**Other adverse effects**

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 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.

#### Waste from residues / unused products

Dispose of in accordance with local regulations.

#### Contaminated packaging

Dispose of in accordance with local regulations.

### 14. TRANSPORT INFORMATION

#### ADR

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.

### 15. REGULATORY INFORMATION

#### US federal regulations

CAS#	13397-24-5	Calcium sulfate dihydrate (alternative CAS 10101-41-4)
CAS#	65996-61-4	Cellulose
CAS#	65997-17-3	Fiberglass

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

#### Issue date

20-August-2019

#### Revision date

1-December-2022

#### Version #

02

#### Further information

NFPA Ratings:

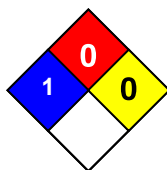
Health: 1

Flammability: 0

Physical hazard: 0

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

#### NFPA Ratings:



#### List of abbreviations

NFPA: National Fire Protection Association.

#### References

Registry of Toxic Effects of Chemical Substances (RTECS) HSDB®

- Hazardous Substances Data Bank

Torben et al. (2001). Environmental and Health Assessment of Substances in Household Detergents and Cosmetic Products.

#### Disclaimer

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