

USG Boral ME Ensemble™

1. Identification

Product identifier	USG Boral Ensemble™
Other means of identification	
Synonyms	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 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: https://www.usgboral.com/en_me/

2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
Label elements	None.
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	Common name and synonym	CAS number and other unique identifiers	Concentration or concentration range
Chemical name			
Calcium sulfate dihydrate (alternative CAS 10101-41-4)		13397-24-5	> 90
Cellulose		65996-61-4	< 5
Fiberglass		65997-17-3	< 2

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.

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
General information

Provide general supportive measures and treat symptomatically.

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 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**

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

Environmental precautions

Avoid discharge to drains, sewers, and other water systems.

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.

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. Store away from incompatible materials.

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 protection

Control parameters

Occupational exposure limits

Components	Type	Value	Form
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.025 mg/m ³	Respirable 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 ³	Inhalable fraction.

Impurities	Type	Value	Form
Components Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.025 mg/m ³	Respirable fraction.

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

Wear approved safety goggles.

Eye/face protection

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**Appearance**

Fiberglass face on paper with gypsum core paper back.

Physical state

Semi-solid.

Form

Solid. 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) (H₂O=1)

Solubility(ies)**Solubility (water)**

0.26 g/100 g (H₂O)

Partition coefficient (n-octanol/water)

Not applicable

Auto-ignition temperature

Not applicable

Decomposition temperature

2642 °F (1450 °C) (Core)

Viscosity

Not applicable

Other information**Bulk density**

495 kg/m³

Oxidizing properties

<5 g/l

Particle size

Varies.

Specific gravity

2.32 (Gypsum) (H₂O = 1)

VOC (Weight %)

0 %

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 oxidizing agents. Strong acids.

Hazardous decomposition products

Calcium oxides, carbon dioxide, and carbon monoxide.

11. Toxicological information**Information on likely routes of exposure****Inhalation**

Dust may irritate respiratory system. Prolonged inhalation may be harmful.

Skin contact

Dust or powder may irritate the skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Eye contact

Dust may irritate the eyes.

Ingestion

May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Dusts may irritate the respiratory tract, skin and eyes.

Not expected to be a hazard under normal conditions of intended use.

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 on the evaluation of carcinogenic 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

Not classified.

Further information

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**Ecological toxicity**

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.

ComponentsCalcium sulfate dihydrate (alternative
CAS 10101-41-4) (CAS 13397-24-5)**Species****Test results****Aquatic**

Fish

LC50

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

Persistence and degradability
Bioaccumulative potential
Mobility in soil
Other adverse effects

The product is not readily biodegradable.
 No data available for this product.
 Expected to have low mobility in soil.
 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 instruction

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.
 Not regulated.

Contaminated packaging

Dispose of in accordance with local regulations.

14. Transport information

ADR

Not regulated as dangerous goods.

Dispose of in accordance with local regulations.

IATA

Not regulated as dangerous goods.

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not regulated as dangerous goods.

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

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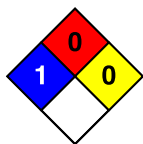
Version #Further information

01

Further information

NFPA Ratings:
 Health : 1
 Flammability : 0
 Physical hazard : 0

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

NFPA ratings**List of abbreviations****References**

NFPA: National Fire Protection Association.

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

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.