# USG BORAL ME Sonata Acoustical Ceiling Panels

#### 1. Identification

Product identifierUSG BORAL ME Sonata Acoustical Ceiling PanelsAdditional ProductsSonata and Sonata Healthcare Acoustical Ceiling Panels

Synonyms Acoustical Ceiling Tiles and Panels, Water Felted Mineral Fiber Ceiling Panels/Tiles

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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Second Industrial City

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#### 2. Hazard(s) identification

**Emergency Overview** "This product is not expected to produce any unusual hazards during normal use

according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). Exposure to high dust levels may irritate the skin, eyes, nose, throat, or upper respiratory tract. Man-made mineral fibers have been classified by

the European Union as irritating to skin.

Physical hazards Not classified.
Health hazards Not classified.
OSHA defined hazards Not classified.

**Label elements** 

Hazard symbolNone.Signal wordNone.Hazard statementNone.

**Precautionary statement** 

PreventionObserve good industrial hygiene practices.ResponseGet 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.

### 3. Composition/information on ingredients

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Chemical name	CAS number	%	
Slag wool fiber	N/A	> 80	
Kaolin	1332-58-7	< 10	
Starch	9005-25-8	< 10	
Aluminum hydroxide	21645-51-2	< 2	
Calcium carbonate	471-34-1	< 2	
Continuous filament glass fiber	65997-17-3	< 2	

**Composition comments** 

All concentrations are in percent by weight unless ingredient is a gas
Raw materials and/or coatings in this product contain small amounts of titanium
dioxide, which has been classified as possibly carcinogenic to humans by the
International Agency for Research on Cancer (IARC). However, per IARC "no
significant exposure to primary particles of titanium dioxide is thought to occur
during the use of products in which titanium dioxide is bound to other materials,
such as in paints" (1). See Section 16 for further information.

#### 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.

Use fire-extinguishing media appropriate for surrounding materials.

#### 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media Specific hazards arising from the

Not applicable.

Not a fire hazard.

chemical

Not a fire flazard.

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  $% \left( 1\right) =\left( 1\right) \left( 1\right) \left$ 

materials.

Specific methods
General fire hazards

Cool material exposed to heat with water spray and remove it if no risk is involved.

No unusual fire or explosion hazards noted.

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#### 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.

Conditions for safe storage, including any incompatibilities

Store away from incompatible materials.

#### 8. Exposure controls/personal protection

**Occupational exposure limits** 

U.S. - OSHA

Components	Туре	Value	Form
Slag wool fiber (CAS N/A)	TWA	5 mg/m3	Fiber, respirable (diameter ≤ 3.5 µm and
			length ≥ 10 μm)
		15 mg/m3	Fiber, total
US. OSHA Table Z-1 Limits for Air			
Contaminants (29 CFR 1910.1000)			
Components	Туре	Value	Form
Calcium carbonate (CAS 471-34-1)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Kaolin (CAS 1332-58-7)	PEL	5 mg/m3	Total dust.
		15 mg/m3	Respirable fraction.
Starch (CAS 9005-25-8)	PEL	5 mg/m3	Total dust.
		15 mg/m3	Respirable fraction.
			Total dust.
US. ACGIH Threshold Limit Values			
Components	Туре	Value	Form
Aluminum hydroxide (CAS 21645-51-2)	TWA	1 mg/m3	Respirable fraction.
Continuous filament glass fiber (CAS			"Respirable fibers (length
65997-17-3)	TWA	1 fibers/cm3	> 5µm & aspect ratio ≥
Kaolin (CAS 1332-58-7)	TWA	2 mg/m3	3:1)"
Slag wool fiber (CAS N/A)	TWA	1 fibers/cm3	Respirable fraction.
Starch (CAS 9005-25-8)	TWA	10 mg/m3	Fiber, respirable (length > 5 µm and
			aspect ratio ≥ 3:1)

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

Components	Туре	Value	Form
Calcium carbonate (CAS 471-34-1)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Continuous filament glass fiber (CAS			
65997-17-3)	TWA	3 fibers/cm3	"Respirable fibers (≤ 3.5
			μm in diameter & ≥ 10 μm
			in length)"
		5 mg/m3	Fiber, total
Kaolin (CAS 1332-58-7)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Slag wool fiber (CAS N/A)	TWA	3 fibers/cm3	"Fiber, respirable
			(diameter ≤ 3.5 µm and
			length ≥ 10 µm)"
		5 mg/m3	Fiber, total
Starch (CAS 9005-25-8)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total

#### **Biological limit values**

**Appropriate engineering controls** 

No biological exposure limits noted for the ingredient(s).

Provide sufficient ventilation for operations causing dust formation. Observe occupational exposure limits and minimize the risk of exposure. Cut and trim with a utility knife or hand saw to minimize dust levels. If a router is used it must have a dust collection system. Operations such as power cutting, power kerfing or using compressed air to remove dust are not recommended (2). See Section 16 for further information.

#### Individual protection measures, such as personal protective equipment

Eye/face protection Skin protection

Wear approved safety goggles.

**Hand protection** 

It is a good industrial hygiene practice to minimize skin contact. For prolonged or repeated skin contact use suitable protective gloves.

Other **Respiratory protection**  Normal work clothing (long sleeved shirts and long pants) is recommended. 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. None.

Thermal hazards 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 separately from regular wash. Observe any medical surveillance requirements.

## 9. Physical and chemical properties

**Appearance** 

Physical stateSolid.FormPanel.

**Color** White or colored surface; beige/gray core.

Odor Low to no odor.
Odor threshold Not applicable.

**pH** 9

Melting point/freezing point 2200 °F (1204.44 °C) (Slag wool)

Initial boiling point and boiling rangeNot applicable.Flash pointNot applicable.Evaporation rateNot applicable.Flammability (solid, gas)Not applicable.

Upper/lower flammability or explosive

limits

Flammability limit - lower (%)
Flammability limit - upper (%)
Explosive limit - lower (%)
Explosive limit - upper (%)
Not applicable.
Not applicable.
Vapor pressure
Vapor density
Relative density
Not applicable.
Not applicable.
Not applicable.
Not applicable.

Solubility(ies)

**Solubility (water)** Very low solubility in water.

Partition coefficient (n-octanol/water)

Not applicable.

Not applicable.

**Decomposition temperature** 2200 °F (1093.3 °C) (Perlite)

Viscosity Not applicable.

Other information

Bulk density 13 - 15 lb./ft<sup>3</sup>

VOC (Weight %)

#### 10. Stability and reactivity

**Reactivity**The product is stable and non reactive under normal conditions of storage and transport.

Chemical stabilityMaterial is stable under normal conditions.Possibility of hazardous reactionsHazardous polymerization does not occur.Conditions to avoidContact with incompatible materials.

**Incompatible materials** Strong oxidizing agents.

Hazardous decomposition products

No hazardous decomposition products are known.

#### 11. Toxicological information

Information on likely routes of exposure

Inhalation Skin contact Inhalation of dusts may cause respiratory irritation.

May cause irritation through mechanical abrasion.

Direct contact with eyes may cause temporary irritation.

**Eye contact**This product is not intended nor expected to be ingested or eaten. Ingestion may

**Ingestion** cause irritation and stomach discomfort.

Symptoms related to the physical,

chemical and toxicological

characteristics

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 a hazard under normal conditions of intended use.

Components Species Test Result

Aluminum hydroxide (CAS 21645-51-2)

Acute

Oral Rat > 5000 mg/kg

LD50 Prolonged skin contact may cause temporary irritation. **Skin corrosion/irritation** Direct contact with eyes may cause temporary irritation.

Serious eye damage/eye irritation

**Respiratory or skin sensitization**Not expected to cause respiratory sensitization based on non-skin sensitization his-

Respiratory sensitization tory.

Not expected to be a skin sensitizer.

**Skin sensitization** Not expected to be mutagenic.

Germ cell mutagenicity This material is not classified as a carcinogen by IARC, ACGIH, NTP or OSHA.

Carcinogenicity

**OSHA Specifically Regulated** 

Substances (29 CFR 1910.1001-1050)

Reproductive toxicity

Specific target organ toxicity - single

**exposure** No data available, but none expected.

Specific target organ toxicity - repeated

**exposure**No data available, but none expected.

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

**Chronic effects** No other specific acute or chronic health impact noted.

Not classified.

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#### 12. Ecological information

**Ecotoxicity** The product components are not classified as environmentally hazardous. However, this

does not exclude the possibility that large or frequent releases can have a harmful or

damaging effect on the environment.

Persistence and degradability No data is available on the degradability of this product.

**Bioaccumulative potential** Bioaccumulation is not expected.

Mobility in soilNo data available.Other adverse effectsNone expected.

#### 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.

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 dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

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

Not applicable.

#### 15. Regulatory information

Saudi Arabian Inventory of Chemical

Substance: CAS #

CAS # 1332-58-7 Kaolin CAS # 9005-25-8 Starch

CAS # 21645-51-2 Aluminum hydroxide CAS # 471-34-1 Calcium carbonate

CAS # 65997-17-3 Continuous filament glass fiber

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

**Issue date** 14-May-18

Revision date
Version #

**Further information** 

Slag Wool Fiber: Large morbidity and mortality studies of both European and North American mineral wool manufacturing workers have been conducted. These studies have found no significant association of non-malignant (i.e. fibrosis) or malignant (i.e., lung cancer or mesothelioma) lung disease and exposures to slag wool fibers and have not established a causal relationship between exposure and non-malignant or malignant diseases. In 2001, the International Agency for Research on Cancer (IARC) assigned slag wool fiber to the Group 3 category ["not classifiable as to carcinogenicity to humans"]. The synthetic mineral fiber used in this product is exonerated from classification as a carcinogen in accordance with Note Q in the EU Commission Directive 97/69/EC.

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Titanium dioxide: Raw materials and/or coatings in this product contain small amounts of titanium dioxide. The International Agency for Research on Cancer (IARC) has determined that titanium dioxide is possibly carcinogenic to humans (Group 2B) based on inadequate evidence in humans and sufficient evidence in experimental animals. This conclusion relates to long-term inhalation exposure to high concentrations of pigmentary (powdered) or ultrafine titanium dioxide. However, no significant exposure to primary particles of titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as in paints. The available human studies do not suggest an association between occupational exposure to titanium dioxide and risk for cancer (1). The American Conference of Governmental Industrial Hygienists (ACGIH) has designated this chemical as not classifiable as a human carcinogen (A4). The US National Toxicology Program (NTP) has not listed this chemical in its report on carcinogens.

Continuous filament glass fibers: 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

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

**HMIS®** ratings

Health: 1\*
Flammability: 0
Physical hazard: 0

**NFPA** ratings



#### Abbreviations and acronyms

GHS: Globally Harmonized System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society)

IARC: International Agency for Research on Cancer

TWA: Time Weighted Average
PEL: Permissible Exposure Limit

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.

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