USG

SAFETY DATA SHEET

1. Identification

Product identifier Mars™ Healthcare Acoustical Panels with AirCare™ Coating

Other means of identification

SDS number 41263330004

Synonyms Ceiling Tiles, Wet Formed Mineral Fiber Ceiling Panels/Tiles

Recommended use Interior use.

Recommended restrictionsUse in accordance with manufacturer's recommendations.

Manufacturer/Importer/Supplier/Distributor information

Company nameUSG Interiors, LLCAddress550 West Adams Street

Chicago, Illinois 60661-3637

 Telephone
 1-800-874-4968

 Website
 www.usg.com

 Emergency phone number
 1-800-507-8899

2. Hazard(s) identification

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.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%	
Slag wool fiber	N/A	> 80	
Kaolin	1332-58-7	< 10	
Starch	9005-25-8	< 5	
Calcium sulfate dihydrate (alternative CAS 10101-41-4)	13397-24-5	< 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 product is not expected to be a health risk. 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

Unsuitable extinguishing

media

Use fire-extinguishing media appropriate for surrounding materials.

Not applicable.

Specific hazards arising from

the chemical

Special protective equipment and precautions for firefighters Not a fire hazard.

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.

General fire hazards No unusual fire or explosion hazards noted.

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.

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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 sulfate dihydrate	PEL	5 mg/m3	Respirable fraction.
(alternative CAS 10101-41-4) (CAS 13397-24-5)			
,		15 mg/m3	Total dust.
Kaolin (CAS 1332-58-7)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Starch (CAS 9005-25-8)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
US. ACGIH Threshold Limi	t Values		
Components	Туре	Value	Form
Calcium sulfate dihydrate	TWA	10 mg/m3	Inhalable fraction.
(alternative CAS		•	
10101-41-4) (CAS			
13397-24-5) Continuous filament glass	TWA	1 fibers/cm3	Respirable fibers (length
fiber (CAS 65997-17-3)	IWA	T IIDEIS/CITIS	> 5 µm & aspect ratio ≥ 3:1)
Kaolin (CAS 1332-58-7)	TWA	2 mg/m3	Respirable fraction.
Slag wool fiber (CAS N/A)	TWA	1 fibers/cm3	Fiber, respirable (length > 5 μm and aspect ratio ≥ 3:1)
Starch (CAS 9005-25-8)	TWA	10 mg/m3	0.1)
US. NIOSH: Pocket Guide t	o Chemical Hazards		
Components	Туре	Value	Form
Calcium sulfate dihydrate	TWA	5 mg/m3	Respirable.
(alternative CAS 10101-41-4) (CAS 13397-24-5)		Ü	·
1000. 2. 0,		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 10 mg/m3	Respirable. Total
logical limit values	No biological exposure limits noted for the	· ·	
propriate engineering		- · · ·	Observe occupational
trols	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 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.

Skin protection

Other Normal work clothing (long sleeved shirts and long pants) is recommended.

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.

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 separately from regular wash. Observe any medical surveillance requirements.

9. Physical and chemical properties

Appearance

Physical state Solid.
Form Panel.

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 Not applicable.

range

Flash point

Evaporation rate

Not applicable.

Not applicable.

Not applicable.

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 densityNot applicable.Relative density0.27 - 0.29 (H2O=1)

Solubility(ies)

Solubility (water) Very low solubility in water.

Partition coefficient Not applicable.

(n-octanol/water)

Auto-ignition temperature Not applicable.

Decomposition temperature Not applicable.

Viscosity Not applicable.

Other information

Bulk density 16 - 18 lb/ft³ VOC (Weight %) N/A (solid)

10. Stability and reactivity

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

Chemical stability Material is stable under normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Contact 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

InhalationInhalation of dusts may cause respiratory irritation.Skin contactMay cause irritation through mechanical abrasion.

Eye contact Direct contact with airborne particulates may cause temporary irritation.

Ingestion Ingestion may 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 Results	
Kaolin (CAS 1332-58-7)			
Acute			
<i>Dermal</i> LD50	Rat	> 5000 mg/kg	
Inhalation LC50	Rat	> 2 mg/l, 4 Hours	
<i>Oral</i> LD50	Rat	> 5000 mg/kg	

Skin corrosion/irritationProlonged skin contact may cause temporary irritation.Serious eye damage/eyeDirect contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not expected to cause respiratory sensitization based on non-skin sensitization history.

Skin sensitization Not expected to be a skin sensitizer.

Germ cell mutagenicity Not expected to be mutagenic.

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

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.

IARC Monographs. Overall Evaluation of Carcinogenicity

Continuous filament glass fiber (CAS 65997-17-3)

3 Not classifiable as to carcinogenicity to humans.

NTP Report on Carcinogens

Continuous filament glass fiber (CAS 65997-17-3)

Reasonably Anticipated to be a Human Carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Reproductive toxicity Not a reproductive toxin.

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.

Further information No other specific acute or chronic health impact noted.

12. Ecological information

EcotoxicityThe 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.

Components Species Test Results

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

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) > 1970 mg/l, 96 hours

Kaolin (CAS 1332-58-7)

Aquatic

Acute

Crustacea LC50 Daphnia magna > 1.1 g/l, 48 Hours

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 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 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. This product is a solid. Therefore, bulk transport is governed by IMSBC code.

15 Pogulatory information

15. Regulatory information

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

All components of this product are in compliance with the listing Requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

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OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

(SDWA)

Not regulated.

US state regulations

US. Massachusetts RTK - Substance List

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

Kaolin (CAS 1332-58-7) Starch (CAS 9005-25-8)

US. New Jersey Worker and Community Right-to-Know Act

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

Kaolin (CAS 1332-58-7)

US. Pennsylvania Worker and Community Right-to-Know Law

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

Kaolin (CAS 1332-58-7) Starch (CAS 9005-25-8)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive

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

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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. Industrial hygiene testing on workers installing acoustical ceiling panels for an 8 hour work day showed that the average respirable fiber exposure was <0.50 f/cc per NIOSH Method 7400-B (3).

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.

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

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

NFPA ratings



References

- 1.) International Agency for Research on Cancer (IARC). Volume 93: Carbon Black, Titanium Dioxide, and Talc; (5. Summary of data reported). IARC, 2010. Available at: http://monographs.iarc.fr/ENG/Monographs/vol93/mono93.pdf
- 2.) North American Insulation Manufacturer's Association (NAIMA). Working Smart with Fiber Glass, Rock Wool and Slag Wool Products. NAIMA, 2007. Available at: http://insulationinstitute.org/wp-content/uploads/2016/02/N059.pdf
- 3.) A.R. Koenig & C.W. Axten (1995) Exposures to Airborne Fiber and Free Crystalline Silica During Installation of Commercial and Industrial Mineral Wool Products, American Industrial Hygiene Association Journal, 56:10, 1016-1022, DOI:10.1080/15428119591016458

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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