



1. Identification

Product identifier	Mars™ High-NRC and Mars™ (Item # 86185 & 88185) Acoustical Ceiling Panels	
Other means of identification		
SDS number	41263330005	
Synonyms	Ceiling Tiles, Wet Formed 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 Interiors, LLC		
Address	550 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	Carcinogenicity	Category 1
OSHA defined hazards	Not classified.	
Label elements		



	Signal word	Danger
	Hazard statement	May cause cancer.
	Precautionary statement	
	Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.
	Response	If exposed or concerned: Get medical advice/attention.
	Storage	Store locked up.
	Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
	azard(s) not otherwise lassified (HNOC)	None known.
S	upplemental 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 carbonate	1317-65-3	< 2	
Calcium sulfate dihydrate (alternative CAS 10101-41-4)	13397-24-5	< 2	

Impurities Chemical name	CAS number %		
Crystalline silica (Quartz)	14808-60-7 < 0.5	-	
Composition comments	All concentrations are in percent by weight unless ingredient is a gas.		
	Raw materials in this product contain respirable crystalline silica as an impurity. The weight percent of respirable crystalline silica found in this product is < 0.5%. Exposures to respirate crystalline silica during the normal use of this product must be determined by workplace hy testing.	ble	
	Raw materials and/or coatings in this product contain small amounts of titanium dioxide, where been classified as possibly carcinogenic to humans by the International Agency for Resear Cancer (IARC). However, per IARC "no significant exposure to primary particles of titanium is thought to occur during the use of products in which titanium dioxide is bound to other materials in paints" (1). See Section 16 for further information.	rch c n dic	
I. First-aid measures			
nhalation	Dust irritates the respiratory system, and may cause coughing and difficulties in breathing. injured person into fresh air and keep person calm under observation. Get medical attention 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 med assistance.	lical	
ngestion	Rinse mouth. Get medical attention if symptoms occur.		
/lost important symptoms/effects, acute and lelayed	Under normal conditions of intended use, this product is not expected to be a health risk. Dust m irritate throat and respiratory system and cause coughing.		
ndication 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	Use fire-extinguishing media appropriate for surrounding materials.		
Jnsuitable extinguishing nedia	Not applicable.		
Specific hazards arising from he chemical	Not a fire hazard.		
Special protective equipment and precautions for firefighters	Selection of respiratory protection for firefighting: follow the general fire precautions indicate the workplace. Self-contained breathing apparatus and full protective clothing must be work 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 meas	sures		
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			
5			

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.

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	r Contaminants (29 CFR 1910.1000)		
Components	Туре	Value	Form
Calcium carbonate (CAS 1317-65-3)	PEL	5 mg/m3	Respirable fraction.
Calcium sulfate dihydrate	PEL	15 mg/m3 5 mg/m3	Total dust. 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. Total dust.
Starch (CAS 9005-25-8)	PEL	15 mg/m3 5 mg/m3	Respirable fraction.
Staten (GAS 3003-23-0)		15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CFR 1910	0.1000)	-	
Impurities	Туре	Value	Form
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.3 mg/m3	Total dust.
US. ACGIH Threshold Limit Value	S	0.1 mg/m3	Respirable.
Components	Туре	Value	Form
Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)	TWA	10 mg/m3	Inhalable fraction.
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)
Impurities	Туре	Value	Form
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide to Cher	nical Hazards		
Components	Туре	Value	Form
Calcium carbonate (CAS 1317-65-3)	TWA	5 mg/m3	Respirable.
Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)	TWA	10 mg/m3 5 mg/m3	Total Respirable.
		10 mg/m3	Total
Kaolin (CAS 1332-58-7)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	Form
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
Impurities	Туре	Value	Form
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
ological limit values	No biological exposure limits noted for	r the ingredient(s).	
ppropriate engineering ontrols	Provide sufficient ventilation for opera exposure limits and minimize the risk minimize dust levels. If a router is use power cutting, power kerfing or using See Section 16 for further information	of exposure. Cut and trim with ed it must have a dust collection compressed air to remove dust	a utility knife or hand saw to system. Operations such as
dividual protection measures	, such as personal protective equipm	ent	
Eye/face protection	Wear approved safety goggles.		
Skin protection			
Hand protection	It is a good industrial hygiene practice contact use suitable protective gloves		prolonged or repeated skin
Other	Normal work clothing (long sleeved shirts and long pants) is recommended.		
Respiratory protection	If engineering controls do not maintai limits (where applicable) or to an acce been established), an approved respi purifying respirator as needed to cont determine respirator selection, use, a for uncontrolled releases or when air respirator protection program required use.	eptable level (in countries where rator must be worn. Use a NIOS rol exposure. Consult with resp nd limitations. Use positive pres purifying respirator limitations n	e exposure limits have not SH/MSHA approved air irator manufacturer to ssure, air-supplied respirator nay be exceeded. Follow
Thermal hazards	None.		
eneral hygiene onsiderations	Always observe good personal hygien and before eating, drinking, and/or sn equipment separately from regular wa	noking. Routinely wash work clo	othing and protective

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.	
рН	9	
Melting point/freezing point	2200 °F (1204.44 °C) (Slag wool)	
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	0.26 - 0.29 (H2O=1)
Solubility(ies)	
Solubility (water)	Very low solubility in water.
Partition coefficient (n-octanol/water)	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not applicable.
Viscosity	Not applicable.
Other information	
Bulk density	16 - 18 lb/ft ³
VOC (Weight %)	0 g/l

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 reactions	Hazardous polymerization does not occur.
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

Inhalation	Inhalation of dusts may cause respiratory irritation.
Skin contact	May 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.	
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Components	Species	Test Results
Calcium carbonate (CAS 1317-65	i-3)	
Acute		
Oral		
LD50		6450 mg/kg
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 sensitizatio	n	
Respiratory sensitization	This product is not expected to cause respiratory sensitization.	
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	Repeated and prolonged exposures to high levels of respirable crystalline silica may cause cancer.			
	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 fibers 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 I	Evaluation of Carcinogenicity			
Crystalline silica (Quartz) NTP Report on Carcinogens		1 Carcinogenic to humar	IS.	
Crystalline silica (Quartz) OSHA Specifically Regulate	(CAS 14808-60-7) d Substances (29 CFR 1910.1	Known To Be Human Ca 001-1050)	arcinogen.	
Not listed.				
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.			
Chronic effects	Prolonged and routine inhalation of high levels of respirable crystalline silica particles can lead to the lung disease known as silicosis. Some studies show excess numbers of cases of scleroderma, connective tissue disorders, lupus, rheumatoid arthritis, chronic kidney diseases and end-stage kidney disease in workers exposed to respirable crystalline silica. Pre-existing skin and respiratory conditions including dermatitis, asthma and chronic lung disease might be aggravated by exposure. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.			
12. Ecological information	1			
Ecotoxicity			entally hazardous. However, this does not n have a harmful or damaging effect on	
Components	Species		Test Results	
Calcium carbonate (CAS 131	7-65-3)			
Aquatic				
Acute				
Fish	LC50 Mosquitofish (Gambusia affinis affinis)	> 56000 mg/l	
Calcium sulfate dihydrate (alte	ernative CAS 10101-41-4) (CAS	6 13397-24-5)		
Aquatic				
Fish	LC50 Fathead minn	ow (Pimephales promelas)	> 1970 mg/l, 96 hours	
Persistence and degradability Bioaccumulative potential Mobility in soil	No data is available on the degradability of this product. Bioaccumulation is not expected. No data available.			

13. Disposal considerations

Other adverse effects

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.

None expected.

Waste from residues / unused Dispose of in accordance with local regulations. products

Contaminated packaging

ackaging Dispose of in accordance with local regulations.

14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable. This product is a solid. Therefore, bulk transport is governed by IMSBC code.

the IBC Code

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Hazard categories

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - No Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

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 Not regulated. (SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Calcium carbonate (CAS 1317-65-3) Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5) Crystalline silica (Quartz) (CAS 14808-60-7) Kaolin (CAS 1332-58-7) Starch (CAS 9005-25-8)

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

Calcium carbonate (CAS 1317-65-3) Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5) Crystalline silica (Quartz) (CAS 14808-60-7) Kaolin (CAS 1332-58-7)

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

Calcium carbonate (CAS 1317-65-3) Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5) Crystalline silica (Quartz) (CAS 14808-60-7) Kaolin (CAS 1332-58-7) Starch (CAS 9005-25-8)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Crystalline silica (Quartz) (CAS 14808-60-7)

International Inventories

Country(s) or region Inventory name

On inventory (yes/no)* No

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory N
*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

Issue date	24-August-2015
Revision date	-
Version #	01
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.
	Crystalline silica: Raw materials in this product may contain respirable crystalline silica as an impurity. Exposures to respirable crystalline silica are not expected during the normal use of this product. However, actual levels must be determined by workplace hygiene testing. Industrial hygiene testing by RJ Lee Group showed that cutting with a utility knife or a router equipped with a dust collection system did not produce airborne respirable crystalline in exceedance of OSHA PELs. However, cutting with a power saw, even with a dust collection system in place, did produce some exceedances. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer.
	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	 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 North American Insulation Manufacturer's Association (NAIMA). Working Smart with Fiber Glass, Rock Wool and Slag Wool Products. NAIMA, 2007. Available at: http://www.naima.org/publications/N059.PDF
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