# SAFETY DATA SHEET



#### 1. Identification

Product identifier USG® Aspen™ Basic Acoustical Ceiling Panels

Other means of identification

**SDS number** 41808210001

Additional Products Alpine™, Olympia™ Micro™, Olympia™ Micro™ HRC, Olympia™ Micro™ Illusion, Pebbled™,

Saville Row™ Acoustical Ceiling Panels

Synonyms Ceiling Tiles, 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 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 Carcinogenicity Category 1A

Specific target organ toxicity, repeated Category 2 (Lung)

exposure

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement May cause cancer. May cause damage to organs (lung) through prolonged or repeated exposure

by inhalation.

**Precautionary statement** 

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Do not breathe dust. 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 in accordance with local, state, and federal regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	e CAS number		
Slag wool fiber	N/A	< 45	
Perlite	93763-70-3	< 40	
Cellulose	9004-34-6	9004-34-6 < 20	

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CAS number	%
471-34-1	
9005-25-8	< 10
1317-65-3	< 10
1332-58-7	< 10
	1317-65-3 9005-25-8

#### **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 ≤ 1.54%. Exposures to respirable crystalline silica during the normal use of this product must be determined by workplace hygiene testing.

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.

European Commission (EC) Annex number for Slag Wool Fibers: 650-016-00-2

#### 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

Under normal conditions of intended use, this material does not pose a risk to health. Dust may

symptoms persist.

Contact with dust: Rinse area with plenty of water. Get medical attention if irritation develops or Skin contact

persists.

Dust in the eyes: Do not rub eyes. Flush thoroughly with water. If irritation occurs, get medical Eye contact

irritate throat and respiratory system and cause coughing.

assistance.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

Most important

symptoms/effects, acute and

delayed

Provide general supportive measures and treat symptomatically.

Indication of immediate medical attention and special

treatment needed

**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

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.

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.

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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.
	DE!	15 mg/m3	Total dust.
Cellulose (CAS 9004-34-6)	PEL	5 mg/m3	Respirable fraction.
KII- (OAO 4000 F0 7)	DEL	15 mg/m3	Total dust.
Kaolin (CAS 1332-58-7)	PEL	5 mg/m3	Respirable fraction.
Line - ton - (OAO 4047 05 0)	DEL	15 mg/m3	Total dust.
Limestone (CAS 1317-65-3)	PEL	5 mg/m3	Respirable fraction.
Ctorch (CAC 0005 05 0)	DEL	15 mg/m3	Total dust.
Starch (CAS 9005-25-8)	PEL	5 mg/m3	Respirable fraction.
US. OSHA Table Z-3 (29 CFR 1910	.1000)	15 mg/m3	Total dust.
Impurities	Туре	Value	Form
Crystalline silica (Quartz)	TWA	0.3 mg/m3	Total dust.
(CAS 14808-60-7)		0.1 mg/m3	Respirable.
US. ACGIH Threshold Limit Values	S	3	
Components	Туре	Value	Form
Cellulose (CAS 9004-34-6)	TWA	10 mg/m3	
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	,
Impurities	Туре	Value	Form
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide to Chen	nical Hazards		
Components	_	Value	Form
Components	Туре	value	1 01111
Calcium carbonate (CAS 471-34-1)	TWA	5 mg/m3	Respirable.
Calcium carbonate (CAS 471-34-1)	TWA	5 mg/m3 10 mg/m3	
Calcium carbonate (CAS		5 mg/m3 10 mg/m3 5 mg/m3	Respirable.
Calcium carbonate (CAS 471-34-1)	TWA	5 mg/m3 10 mg/m3	Respirable. Total

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

Components	Туре	Value	Form
		10 mg/m3	Total
Limestone (CAS 1317-65-3)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Perlite (CAS 93763-70-3)	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
Impurities	Туре	Value	Form
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.

**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. 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.

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. 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 pointNot applicable.Initial boiling point and boilingNot applicable.

range

Flash point

Evaporation rate

Flammability (solid, gas)

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. Not applicable.

Explosive limit - upper (%) Vapor pressure

Not applicable.

Vapor density Relative density Not applicable. 0.21 - 0.24 (H20=1)

Solubility(ies)

Solubility (water)

Very low solubility in water.

Partition coefficient

Not applicable.

(n-octanol/water)

**Auto-ignition temperature** Not applicable.

**Decomposition temperature** 

2000 °F (1093.3 °C) (Perlite)

**Viscosity** 

Not applicable.

Other information

**Bulk density** 

13 - 15 lb/ft<sup>3</sup>

VOC (Weight %)

0 %

## 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.

Eve contact

Direct contact with eyes may cause temporary irritation.

Ingestion

Ingestion may cause irritation and stomach discomfort.

Symptoms related to the

Under normal conditions of intended use, this material does not pose a risk to health.

physical, chemical and toxicological characteristics

Information on toxicological effects

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

Components

**Species** 

**Test Results** 

Calcium carbonate (CAS 471-34-1)

Acute

Oral

LD50 Rat 6450 mg/kg

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization

No data available, but none expected.

Skin sensitization

This product is not expected to cause skin sensitization.

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Germ cell mutagenicity No data available, but none expected.

Carcinogenicity Repeated and prolonged exposures to high levels of respirable crystalline silica may cause

IARC Monographs. Overall Evaluation of Carcinogenicity

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

**NTP Report on Carcinogens** 

Crystalline silica (Quartz) (CAS 14808-60-7) Known To Be Human Carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity No data available, but none expected.

Specific target organ toxicity -

No data available, but none expected.

single exposure

Specific target organ toxicity repeated exposure

May damage lung tissue through repeated and prolonged exposure to high levels of respirable

crystalline silica particles.

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

Prolonged and routine inhalation of high levels of respirable crystalline silica particles can lead to **Chronic effects** 

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

**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.

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

Bioaccumulation is not expected. Bioaccumulative potential

Mobility in soil No data available. Other adverse effects None expected.

13. Disposal considerations

**Disposal instructions** Dispose in accordance with applicable federal, state, and local regulations. Recycle responsibly.

Dispose of in accordance with local regulations. Local disposal regulations

Hazardous waste code Not regulated.

Waste from residues / unused

products

Dispose of in accordance with local regulations.

Dispose of in accordance with local regulations. Contaminated packaging

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 Not applicable. This product is a solid. Therefore, bulk transport is governed by IMSBC code. Annex II of MARPOL 73/78 and

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)

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Not regulated.

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#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

**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 - 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.

Not regulated.

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

Not regulated.

Safe Drinking Water Act

**US** state regulations

(SDWA)

**US. Massachusetts RTK - Substance List** 

Calcium carbonate (CAS 471-34-1)

Cellulose (CAS 9004-34-6)

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

Kaolin (CAS 1332-58-7) Limestone (CAS 1317-65-3)

Perlite (CAS 93763-70-3)

Starch (CAS 9005-25-8)

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

Calcium carbonate (CAS 471-34-1)

Cellulose (CAS 9004-34-6)

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

Kaolin (CAS 1332-58-7) Limestone (CAS 1317-65-3)

Perlite (CAS 93763-70-3)

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

Calcium carbonate (CAS 471-34-1)

Cellulose (CAS 9004-34-6)

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

Kaolin (CAS 1332-58-7)

Limestone (CAS 1317-65-3)

Perlite (CAS 93763-70-3)

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)

SDS US

Country(s) or region Inventory name On inventory (yes/no)\*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*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** 19-December-2014

Revision date - 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

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

HMIS® ratings Health: 1\*

Flammability: 0 Physical hazard: 0

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: <a href="http://monographs.iarc.fr/ENG/Monographs/vol93/mono93.pdf">http://monographs.iarc.fr/ENG/Monographs/vol93/mono93.pdf</a>
- 2.) North American Insulation Manufacturer's Association (NAIMA). Working Smart with Fiber Glass, Rock Wool and Slag Wool Products. NAIMA, 2007. Available at: <a href="http://www.naima.org/publications/N059.PDF">http://www.naima.org/publications/N059.PDF</a>>

#### 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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