USG Radar™ Ceramic Firecode™ Acoustical Ceiling Panels
by USG

CLASSIFICATION: 09 51 00

PRODUCT DESCRIPTION: MANUFACTURED BY USG INTERIORS, LLC. USG RADAR™ CERAMIC ACOUSTICAL CEILING PANELS WITH FIRECODE® CONSIST OF 100-PERCENT CERAMIC-BONDED MINERAL FIBER THAT WITHSTANDS HIGH HEAT, HIGH HUMIDITY, AND CORROSIVE CHEMICAL FUMES. MOLD, MILDEW AND SAG RESISTANT, THEY ARE PERFECT FOR INDOOR POOLS, SHOWER AREAS, SAUNAS AND STEAM ROOMS.

Section 1: Summary

CONTENT INVENTORY

<table>
<thead>
<tr>
<th>Threshold per material</th>
<th>Residuals and impurities considered in 1 of 1 materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 ppm</td>
<td>O see Section 2: Material Notes</td>
</tr>
<tr>
<td>1,000 ppm</td>
<td>O see Section 2: Material Notes</td>
</tr>
<tr>
<td>Per GHS SDS</td>
<td>O see Section 2: Material Notes</td>
</tr>
<tr>
<td>Per OSHA MSDS</td>
<td>O see Section 2: Material Notes</td>
</tr>
<tr>
<td>Other</td>
<td>O see Section 2: Material Notes</td>
</tr>
</tbody>
</table>

Based on the selected Content Inventory Threshold:

- Characterized....................................................
- Are the Percent Weight and Role provided for all substances?
  - Yes  No
- Screened.........................................................
- Are all substances screened using Priority Hazard Lists with results disclosed?
  - Yes  No
- Identified......................................................
- Are all substances disclosed by Name (Specific or Generic) and Identifier?
  - Yes  No

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>SUBSTANCE</th>
<th>RESIDUAL OR IMPURITY</th>
<th>GREENSCREEN SCORE</th>
<th>HAZARD TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>USG RADAR™ CERAMIC FIRECODE™ ACOUSTICAL CEILING PANELS</td>
<td>KAOLIN CLAY</td>
<td>LT-UNK</td>
<td>CAN</td>
<td>MINERAL WOOL (BIOSOLUBLE, WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT GREATER THAN 18 % BY WEIGHT)</td>
</tr>
<tr>
<td>PERLITE</td>
<td>LT-UNK</td>
<td>STARCH LT-UNK</td>
<td>UNDISCLOSED LT-UNK</td>
<td>TITANIUM DIOXIDE LT-1</td>
</tr>
</tbody>
</table>

Number of Greenscreen BM-4/BM3 contents........... 0
Contents highest concern GreenScreen Benchmark or List translator Score.............. LT-1
Nanomaterial............. No

INVENTORY AND SCREENING NOTES:

Residuals/Impurities in raw materials are quantitatively measured and are displayed in the HPD when greater than or equal to 1000 ppm.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

VOC emissions: GREENGUARD Certification - USG Radar™ Ceramic Firecode™ Acoustical Ceiling Panels

See Section 3 for additional listings.

Self-Published* VERIFIER: SCREENING DATE: December 27, 2016 EXPIRY DATE*: January 11, 2020
Third Party Verified VERIFICATION #: RELEASE DATE: January 11, 2017 * or within 3 months of significant change in product contents

*See HPDC website for details
Section 2: Content in Descending Order of Quantity

This section lists materials in a product and the substances in each material based on the Inventory Threshold for each material. If residuals or impurities from the manufacturing or extraction processes are considered for a material, these are inventoried and characterized to the extent described in the Material and/or General Notes. Chemical substances are screened against the HPD Priority Hazard Lists for human and environmental health impacts. Screening is based on best available information; "Not Found" does not necessarily mean there is no potential hazard associated with the product or its contents. More information about Priority Hazard Lists and the GreenScreen can be found online: www.hpd-collaborative.org and www.greenscreenchemicals.org.

USG RADAR™ CERAMIC FIRECODE™ ACOUSTICAL CEILING PANELS

<table>
<thead>
<tr>
<th>Material</th>
<th>ID</th>
<th>%:</th>
<th>GS:</th>
<th>RC:</th>
<th>NANO:</th>
<th>ROLE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>KAOLIN CLAY</td>
<td>1332-58-7</td>
<td>43.0000 - 56.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>NO</td>
<td>Filler</td>
</tr>
<tr>
<td>MINERAL WOOL (BIOSOLUBLE, WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT GREATER THAN 18 % BY WEIGHT)</td>
<td>65997-17-3</td>
<td>40.0000 - 55.0000</td>
<td>LT-UNK</td>
<td>PreC</td>
<td>NO</td>
<td>Core/Basemat</td>
</tr>
<tr>
<td>PERLITE</td>
<td>93763-70-3</td>
<td>3.0000 - 20.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>NO</td>
<td>Core/Basemat</td>
</tr>
<tr>
<td>STARCH</td>
<td>9005-25-8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

- **CANCER:** MAK
  - Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

**SUBSTANCE NOTES:**

- 40.0 – 50.0% in Basemat/3.0 – 6.0% in Coating. Quartz is an impurity found in kaolin clay. See the impurity quartz entry for more information.
- The synthetic mineral wool fiber used in this product is exonerated from classification as a carcinogenic in accordance with Note Q in the EU Commission Directive 97/69/EC. No residuals/impurities at 1000 ppm.
- No residuals/impurities at 1000 ppm

**USG Radar™ Ceramic Firecode™ Acoustical Ceiling Panels Health Product Declaration Page 2 of 5 created via: HPDC Online Builder www.hpd-collaborative.org**
### TITANIUM DIOXIDE

**ID:** 13463-67-7

<table>
<thead>
<tr>
<th>%:</th>
<th>0.0800 - 0.3000</th>
<th>GS:</th>
<th>LT-1</th>
<th>RC: None</th>
<th>NANO: NO</th>
<th>ROLE: Pigment/Coating</th>
</tr>
</thead>
</table>

#### HAZARDS:

**CANCER**

- **US CDC - Occupational Carcinogens**
  - Occupational Carcinogen
- **CA EPA - Prop 65**
  - Carcinogen - specific to chemical form or exposure route
- **IARC**
  - Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
- **MAK**
  - Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

#### SUBSTANCE NOTES:

Since titanium dioxide is bound within the coating and not inhalable, it is excluded from several regulatory hazard lists. No residuals/impurities at 1000 ppm.

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### QUARTZ

**ID:** 14808-60-7

<table>
<thead>
<tr>
<th>%:</th>
<th>Impurity/Residual</th>
<th>GS:</th>
<th>LT-1</th>
<th>RC: None</th>
<th>NANO: NO</th>
<th>ROLE: Impurity/Residual</th>
</tr>
</thead>
</table>

#### HAZARDS:

**CANCER**

- **US CDC - Occupational Carcinogens**
  - Occupational Carcinogen
- **CA EPA - Prop 65**
  - Carcinogen - specific to chemical form or exposure route
Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

VOC EMISSIONS
CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: Cloquet, MN
CERTIFICATE URL:
CERTIFICATION AND COMPLIANCE NOTES:

Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

Section 5: General Notes

Ingredient specific notes are included in Section 2.
**Section 6: References**

**MANUFACTURER INFORMATION**

**MANUFACTURER:** USG

**ADDRESS:** 550 West Adams Street  
Chicago, IL 60661  
United States

**WEBSITE:** usg.com

**CONTACT NAME:** Stacy Simpson

**TITLE:** Sustainability Analyst II, Authorized GreenScreen Practitioner

**PHONE:** 1-800-USG4YOU

**EMAIL:** sustainability@usg.com

**KEY**

- **OSHA MSDS** Occupational Safety and Health Administration Material Safety Data Sheet
- **GHS SDS** Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

**Hazard Types**

- **AQU** Aquatic toxicity
- **CAN** Cancer
- **DEV** Developmental toxicity
- **END** Endocrine activity
- **EYE** Eye irritation/corrosivity
- **GEN** Gene mutation
- **GLO** Global warming
- **MAM** Mammalian/systemic/organ toxicity
- **MUL** Multiple hazards
- **NEU** Neurotoxicity
- **OZO** Ozone depletion
- **PBT** Persistent Bioaccumulative Toxic
- **PHY** Physical Hazard (reactive)
- **REP** Reproductive toxicity
- **RES** Respiratory sensitization
- **SK1** Skin sensitization/irritation/corrosivity
- **LAN** Land Toxicity
- **NF** Not found on Priority Hazard Lists

**GreenScreen (GS)**

- **BM-4** Benchmark 4 (prefer-safer chemical)
- **BM-3** Benchmark 3 (use but still opportunity for improvement)  
  Benchmark 2 (use but search for safer substitutes)
- **BM-1** Benchmark 1 (avoid - chemical of high concern)
- **BM-U** Benchmark Unspec ed (insu cient data to benchmark)
- **LT-P1** List Translator Possible Benchmark 1
- **LT-1** List Translator Likely Benchmark 1
- **LT-UNK** List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
- **UNK** Unknown (no data on List Translator Lists)

**Recycled Types**

- **PreC** Preconsumer (Post-Industrial)
- **PostC** Postconsumer
- **Both** Both Preconsumer and Postconsumer
- **Unk** Inclusion of recycled content is unknown
- **None** Does not include recycled content

**Other**

- **Nano** Composed of nanoscale particles or nanotechnology

**Declaration Level**

- **Self-declared** Manufacturer’s self-declaration (First Party)
- **Independent Lab** Manufacturer’s self-declaration using results from an independent lab
- **Second Party** Verification by trade association or other interested party
- **Third Party** Verification by independent certifier
- **Applicable facilities** Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator, and when available, full GreenScreen assessments. The HPD Open Standard does not provide an assessment of health impacts throughout the product life cycle. It does not provide an assessment of exposure or risk associated with product handling or use. It also does not address potential health impacts of: (i) substances used or created during the manufacturing process unless they remain in the final product, or (ii) substances created after the product is delivered for end use (e.g., if the product burns, degrades, or otherwise changes chemical composition).

The HPD Open Standard was created and is maintained and evolved by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry. The HPD Collaborative is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

A disclosure completed in compliance with the HPD Open Standard is referred to as a “Health Product Declaration,” or “HPD.” The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD Open Standard noted.