USG Radar™ Acoustical Ceiling Panels
by USG

CLASSIFICATION: 09 51 00

PRODUCT DESCRIPTION: MANUFACTURED BY USG INTERIORS, LLC. USG Radar™ Acoustical Ceiling Panels contain a proprietary broad-spectrum standard formulation that inhibits the growth of mold and mildew. Medium textured with a non-directional pattern, these sag resistant panels are an optimal choice for use in schools, corridors, lobbies, offices and retail stores.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format
- Nested Materials Method
- Basic Method

Threshold Disclosed Per
- Material
- Product

Threshold level
- 100 ppm
- 1,000 ppm
- Per GHS SDS
- Per OSHA MSDS
- Other

Residuals/Impurities
- Considered
- Partially Considered
- Not Considered

All Substances Above the Threshold Indicated Are:

Characterized: Yes Ex/SC / Yes / No
% weight and role provided for all substances.

Screened: Yes Ex/SC / Yes / No
All substances screened using Priority Hazard Lists with results disclosed.

Identified: Yes Ex/SC / Yes / No
One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.

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.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY | GREENSCREEN SCORE | HAZARD TYPE

USG RADAR™ ACOUSTICAL CEILING PANELS | PERLITE LT-UNK
CELLULOSE, MICROCRYSTALLINE | NOGS MINERAL WOOL (BIOSOLUBLE, WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT GREATER THAN 18 % BY WEIGHT) LT-UNK STARCH LT-UNK KAOLIN CLAY LT-UNK CAN CALCIUM CARBONATE BM-3 UNDISCLOSED LT-UNK QUARTZ LT-1 CAN TITANIUM DIOXIDE LT-1 CAN | END MELAMINE FORMALDEHYDE LT-UNK

INVENTORY AND SCREENING NOTES:
Residuals/Impurities in raw materials that return a GreenScreen® score of BM-1, LT-1, LT-P1 or NoGS are displayed in the HPD when greater than or equal to 1000 ppm. USG uses an outside lab to quantify potential impurities of raw materials. Analytical methods may include but are not limited to; x-ray diffraction, x-ray fluorescence, atomic absorption, ion chromatography, liquid chromatography, and crystalline silica analysis.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

See Section 3 for additional listings.

VOC emissions: UL/GreenGuard Gold Certified
Other: Environmental Product Declaration - USG Radar™ Acoustical Ceiling Panels

CONSISTENCY WITH OTHER PROGRAMS
Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?
- Yes
- No

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #: 2019-08-29
PUBLISHED DATE: 2020-01-30
EXPIRY DATE: 2022-08-29

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### Section 2: Content in Descending Order of Quantity

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.1.1, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-1-1-standard](http://www.hpd-collaborative.org/hpd-2-1-1-standard)

#### USG RADAR™ ACOUSTICAL CEILING PANELS

**PRODUCT THRESHOLD:** 1000 ppm  
**RESIDUALS AND IMPURITIES CONSIDERED:** Yes

**RESIDUALS AND IMPURITIES NOTES:** See the SDS on usg.com for occupational exposure information. No Residuals or Impurities are expected to be present at or above the 1000 ppm threshold that return a GreenScreen® score of BM-1, LT-1, LT-P1 or NoGS.

**OTHER PRODUCT NOTES:** Chemical inventory and screening of the ingredients in USG Radar™, Radar™ Basic, Radar™ Illusion, Radar™ High-NRC, Radar™ High Durability, Radar™ High-NRC/High-CAC Acoustical Ceiling Panels, and Kitchen Lay-In Panels.

<table>
<thead>
<tr>
<th>Substances</th>
<th>ID</th>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PERLITE</td>
<td>93763-70-3</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-08-29</td>
<td>30.00 - 55.00</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Core/Basemat</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
<tr>
<td>HAZARD TYPE</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>SUBSTANCE NOTES</td>
<td></td>
<td></td>
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<td></td>
<td>No Residuals or Impurities are expected to be present at or above the 1000 ppm threshold that return a GreenScreen® score of BM-1, LT-1, LT-P1 or NoGS.</td>
</tr>
<tr>
<td>CELLULOSE, MICROCRYSTALLINE</td>
<td>9004-34-6</td>
<td>Pharos Chemical and Materials Library</td>
<td>2019-08-29</td>
<td>10.00 - 20.00</td>
<td>NoGS</td>
<td>PostC</td>
<td>No</td>
<td>Binder/Basemat</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
<tr>
<td>HAZARD TYPE</td>
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<td>SUBSTANCE NOTES</td>
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<td></td>
<td></td>
<td>No Residuals or Impurities are expected to be present at or above the 1000 ppm threshold that return a GreenScreen® score of BM-1, LT-1, LT-P1 or NoGS.</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>Pharos Chemical and Materials Library</td>
<td>2019-08-29</td>
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<td>HAZARD TYPE</td>
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<tr>
<td>None found</td>
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</tr>
</tbody>
</table>
### STARCH

- **ID:** 9005-25-8
- **HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library
- **HAZARD SCREENING DATE:** 2019-08-29
- **%:** 7.00 - 10.00
- **GS:** LT-UNK
- **RC:** None
- **NANO:** No
- **ROLE:** Binder/Basemat

**WARNINGS**

None found

**SUBSTANCE NOTES:** No Residuals or Impurities are expected to be present at or above the 1000 ppm threshold that return a GreenScreen® score of BM-1, LT-1, LT-P1 or NoGS.

### KAOLIN CLAY

- **ID:** 1332-58-7
- **HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library
- **HAZARD SCREENING DATE:** 2019-08-29
- **%:** 4.00 - 12.50
- **GS:** LT-UNK
- **RC:** None
- **NANO:** No
- **ROLE:** Filler

**HAZARD TYPE**

<table>
<thead>
<tr>
<th>CANCER</th>
<th>MAK</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

**WARNINGS**

None found

**SUBSTANCE NOTES:** No Residuals or Impurities are expected to be present at or above the 1000 ppm threshold that return a GreenScreen® score of BM-1, LT-1, LT-P1 or NoGS.

### CALCIUM CARBONATE

- **ID:** 471-34-1
- **HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library
- **HAZARD SCREENING DATE:** 2019-08-29
- **%:** 1.00 - 5.00
- **GS:** BM-3
- **RC:** None
- **NANO:** No
- **ROLE:** Filler/Coating

**WARNINGS**

None found

**SUBSTANCE NOTES:** No Residuals or Impurities are expected to be present at or above the 1000 ppm threshold that return a GreenScreen® score of BM-1, LT-1, LT-P1 or NoGS.

### UNDISCLOSED

USG Radar Acoustical Ceiling Panels

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HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

<table>
<thead>
<tr>
<th>%: 0.10 - 0.50</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Binder/Coating</th>
</tr>
</thead>
</table>

SUBSTANCE NOTES: 0.0 – 0.5% in Coating/0.1 – 0.6% in Laminate. Proprietary ingredient. No Residuals or Impurities are expected to be present at or above the 1000 ppm threshold that return a GreenScreen® score of BM-1, LT-1, LT-P1 or NoGS. Not on the Living Building Challenge™ (LBC) Red List Chemical Guide (Version 3.1).

QUARTZ

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

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

WARNINGS

- CANCER
  - US CDC - Occupational Carcinogens
  - Occupational Carcinogen
- CANCER
  - CA EPA - Prop 65
  - Carcinogen - specific to chemical form or exposure route
- CANCER
  - US NIH - Report on Carcinogens
  - Known to be Human Carcinogen (respirable size - occupational setting)
- CANCER
  - MAK
  - Carcinogen Group 1 - Substances that cause cancer in man
- CANCER
  - IARC
  - Group 1 - Agent is Carcinogenic to humans
- CANCER
  - IARC
  - Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources
- CANCER
  - GHS - New Zealand
  - 6.7A - Known or presumed human carcinogens
- CANCER
  - GHS - Japan
  - Carcinogenicity - Category 1A [H350]
- CANCER
  - GHS - Australia
  - H350i - May cause cancer by inhalation

SUBSTANCE NOTES: No Residuals or Impurities are expected to be present at or above the 1000 ppm threshold that return a GreenScreen® score of BM-1, LT-1, LT-P1 or NoGS.

TITANIUM DIOXIDE

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

<table>
<thead>
<tr>
<th>%: 0.05 - 0.30</th>
<th>GS: LT-1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Pigment/Coating</th>
</tr>
</thead>
</table>

USG Radar Acoustical Ceiling Panels

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HPD v2.1.1 created via HPDC Builder Page 4 of 8
HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS
--- | --- | ---
CANCER | US CDC - Occupational Carcinogens | Occupational Carcinogen
CANCER | CA EPA - Prop 65 | Carcinogen - specific to chemical form or exposure route
CANCER | IARC | Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
CANCER | MAK | Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
ENDOCRINE | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor
CANCER | MAK | Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

SUBSTANCE NOTES: Since titanium dioxide is bound with in the coating and not inhalable, it is excluded from several regulatory hazard lists. No Residuals or Impurities are expected to be present at or above the 1000 ppm threshold that return a GreenScreen® score of BM-1, LT-1, LT-P1 or NoGS.

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MELAMINE FORMALDEHYDE

<table>
<thead>
<tr>
<th>ID: 9003-08-1</th>
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</thead>
</table>

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library  HAZARD SCREENING DATE: 2019-08-29

| %: 0.00 - 0.80 | GS: LT-UNK | RC: None | NANO: No | ROLE: Binder/Coating |

None found

SUBSTANCE NOTES: May contain, not used for all product formulations for the manufacturing of Radar™ Basic Acoustical Ceiling Panels. No Residuals or Impurities are expected to be present at or above the 1000 ppm threshold that return a GreenScreen® score of BM-1, LT-1, LT-P1 or NoGS.

No warnings found on HPD Priority Hazard Lists
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

<table>
<thead>
<tr>
<th>CERTIFYING PARTY</th>
<th>UL/GreenGuard Gold Certified</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CERTIFYING PARTY:</strong></td>
<td><strong>UL/GreenGuard Gold Certified</strong></td>
</tr>
<tr>
<td><strong>APPLICABLE FACILITIES:</strong></td>
<td><strong>Cloquet, MN and Greenville, MS.</strong></td>
</tr>
<tr>
<td><strong>CERTIFICATE URL:</strong></td>
<td><strong><a href="https://spot.ul.com/">https://spot.ul.com/</a></strong></td>
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<tr>
<td><strong>ISSUE DATE:</strong></td>
<td><strong>2015-08-06</strong></td>
</tr>
<tr>
<td><strong>EXPIRY DATE:</strong></td>
<td><strong>CERTIFIER OR LAB:</strong></td>
</tr>
<tr>
<td><strong>CERTIFIER OR LAB:</strong></td>
<td><strong>UL Environment</strong></td>
</tr>
</tbody>
</table>

CERTIFICATION AND COMPLIANCE NOTES: Building products and interior finishes are determined compliant in accordance with California Department of Public Health (CDPH) Standard Method V1.2-2017 using an Office and Classroom Environment. Product tested in accordance with UL 2821 test method to show compliance to emission limits on UL 2818. Section 7.1 and 7.2. Maximum allowable predicted TVOC concentrations for GREENGUARD Gold (0.22 mg/m³) fall in the range of 0.5 mg/m³ or less, as specified in CDPH Standard Method v1.2. Kitchen Lay-In Panels certification is pending.

### OTHER

<table>
<thead>
<tr>
<th>CERTIFYING PARTY</th>
<th>Environmental Product Declaration - USG Radar™ Acoustical Ceiling Panels</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CERTIFYING PARTY:</strong></td>
<td><strong>Environmental Product Declaration - USG Radar™ Acoustical Ceiling Panels</strong></td>
</tr>
<tr>
<td><strong>APPLICABLE FACILITIES:</strong></td>
<td><strong>Cloquet, MN and Greenville, MS</strong></td>
</tr>
<tr>
<td><strong>CERTIFICATE URL:</strong></td>
<td><strong><a href="https://www.usg.com/content/usgcom/en/search.html?q=radar+epd">https://www.usg.com/content/usgcom/en/search.html?q=radar+epd</a></strong></td>
</tr>
<tr>
<td><strong>ISSUE DATE:</strong></td>
<td><strong>2019-07-01</strong></td>
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<tr>
<td><strong>EXPIRY DATE:</strong></td>
<td><strong>CERTIFIER OR LAB:</strong></td>
</tr>
<tr>
<td><strong>CERTIFIER OR LAB:</strong></td>
<td><strong>UL Environment</strong></td>
</tr>
</tbody>
</table>

CERTIFICATION AND COMPLIANCE NOTES: The Environmental Product Declarations (EPDs) are in accordance with ISO 14025. EPDs rely on Life Cycle Assessment (LCA) to provide information on a number of environmental impacts of products over their life cycle. Exclusions: EPDs do not indicate that any environmental or social performance benchmarks are met, and there may be impacts that they do not encompass. LCAs do not typically address the site-specific environmental impacts of raw material extraction, nor are they meant to assess human health toxicity. Note multiple EPDs are included in the link provided.

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.

**USG DONN® BRAND ACOUSTICAL SUSPENSION SYSTEMS**

<table>
<thead>
<tr>
<th>CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:</th>
<th><strong>Used to install acoustical ceiling panels.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HPD URL:</strong></td>
<td><strong><a href="https://www.usg.com/content/usgcom/en.html">https://www.usg.com/content/usgcom/en.html</a></strong></td>
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</tbody>
</table>

Section 5: General Notes
Ingredient specific notes are included in Section 2.
# Section 6: References

## Manufacturer Information

<table>
<thead>
<tr>
<th>Manufacturer: USG</th>
<th>Contact Name: Stacy Simpson</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address: 550 West Adams Street Chicago IL 60661, United States</td>
<td>Title: Sustainability Manager</td>
</tr>
<tr>
<td>Website: usg.com</td>
<td>Phone: 1-800-USG4YOU</td>
</tr>
<tr>
<td>Email: <a href="mailto:sustainability@usg.com">sustainability@usg.com</a></td>
<td></td>
</tr>
</tbody>
</table>

## 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

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

### GreenScreen (GS)

- BM-4 Benchmark 4 (prefer-safer chemical)
- BM-3 Benchmark 3 (use but still opportunity for improvement)
- BM-2 Benchmark 2 (use but search for safer substitutes)
- BM-1 Benchmark 1 (avoid - chemical of high concern)
- BM-U Benchmark Unspecified (insufficient data to benchmark)

### 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 Terms

- **Inventory Methods:**
  - Nested Method / Material Threshold: Substances listed within each material per threshold indicated per material
  - Nested Method / Product Threshold: Substances listed within each material per threshold indicated per product
  - Basic Method / Product Threshold: Substances listed individually per threshold indicated per product
- **Nano:** Composed of nano scale particles or nanotechnology
- **Third Party Verified:** Verification by independent certifier approved by HPDC
- **Preparer:** Third party preparer, if not self-prepared by manufacturer
- **Applicable facilities:** Manufacturing sites to which testing applies

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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 v2.1 is not:

- a method for the assessment of exposure or risk associated with product handling or use,
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

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

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 standard noted.