

USG Sheetrock® Brand EcoSmart Panels Mold Tough® Firecode® X by USG

Health Product Declaration v2.1.1

created via: HPDC Online Builder

CLASSIFICATION: 09 20 00

PRODUCT DESCRIPTION: USG Sheetrock® Brand EcoSmart Panels Mold Tough® Firecode® X represent a revolution in wallboard manufacturing, significantly reducing the need for natural resources and impact on the environment. These 5/8 in. Type X lightweight gypsum panels have a noncombustible, moisture and mold-resistant gypsum core that is encased in moisture- and mold-resistant, 100% recycled green face and brown back papers. When tested in accordance with ASTM D3273, Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber, the panels score a 10 (highest). The long edges of the panels are tapered, allowing joints to be reinforced and concealed with USG Sheetrock® Brand joint treatment systems. The panels are UL Classified for fire resistance and can be used in any UL Design where Type ULIX panels are listed. On the face along the long edge of each panel, the UL Type Designation is printed for easy identification by building inspectors.

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

Explanation(s) provided for Residuals/Impurities?

- Yes
- No

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 SHEETROCK® BRAND ECOSMART PANELS MOLD TOUGH® FIRECODE® X [GYPSUM LT-UNK CELLULOSE, MICROCRYSTALLINE NoGS VERMICULITE (VERMICULITE) NoGS STARCH LT-UNK SOLID GLASS AND GLASS / MINERAL FIBER (SEE VARIANTS) (SOLID GLASS AND GLASS / MINERAL FIBER (SEE VARIANTS)) LT-UNK | CAN FLY ASH (FLY ASH) LT-UNK POLY(METHYLHYDROSILOXANE) NoGS BORIC ACID (BORIC ACID) LT-1 | REP | DEL | END | MUL UNDISCLOSED LT-UNK NAPHTHALENESULFONIC ACID, FORMALDEHYDE POLYMER, CALCIUM SALT LT-P1]

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 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
LCA: Environmental Product Declaration (EPD) by UL

CONSISTENCY WITH OTHER PROGRAMS

Third Party Verified?

- Yes
- No

PREPARER: **Self-Prepared**

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2017-10-11

PUBLISHED DATE: 2019-02-01

EXPIRY DATE: 2020-10-11



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, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

USG SHEETROCK® BRAND ECOSMART PANELS MOLD TOUGH® FIRECODE®

X

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED:

Yes

RESIDUALS AND IMPURITIES NOTES: Raw materials in this product may contain trace amounts of respirable crystalline silica. Testing has shown exposures to respirable crystalline silica are not expected to exceed the OSHA Permissible Exposure Level (PEL) during the normal use of this product. 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: This product is made at Bridgeport, AL, Plaster City, CA, Rainier, OR, Sperry, IA, and Washingtonville, PA. Percent ranges displayed for this HPD are for all manufacturing plants that make this product and may vary but are not expected to exceed a range beyond 10%.

GYPSUM

ID: 13397-24-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2017-10-11

#: 85.0000 - 95.0000

GS: LT-UNK

RC: PreC

NANO: No

ROLE: Core

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards 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. The use of FGD gypsum and the pre-consumer recycled content of USG Sheetrock® Brand EcoSmart Panels Mold Tough® Firecode® X will vary by the manufacturing plant.

CELLULOSE, MICROCRYSTALLINE

ID: 9004-34-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2017-10-11

#: 5.0000 - 8.0000

GS: NoGS

RC: PostC

NANO: No

ROLE: Paper face

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards 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.

VERMICULITE (VERMICULITE)

ID: 1318-00-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2017-10-11**%: **2.0000 - 3.0000**GS: **NoGS**RC: **None**NANO: **No**ROLE: **Fire endurance**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards 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.

STARCH

ID: 9005-25-8

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2017-10-11**%: **0.5000 - 2.0000**GS: **LT-UNK**RC: **None**NANO: **No**ROLE: **Binder**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards 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.

SOLID GLASS AND GLASS / MINERAL FIBER (SEE VARIANTS) (SOLID GLASS AND GLASS / MINERAL FIBER (SEE VARIANTS))

ID: 65997-17-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2017-10-11**%: **0.1000 - 0.7000**GS: **LT-UNK**RC: **None**NANO: **No**ROLE: **Structure**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

CANCER

EU - GHS (H-Statements)

H351 - Suspected of causing cancer

SUBSTANCE NOTES: As manufactured, continuous filament glass fibers in this product are not respirable. 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.

FLY ASH (FLY ASH)

ID: 68131-74-8

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2017-10-11**%: **0.1000 - 0.7000**GS: **LT-UNK**RC: **None**NANO: **No**ROLE: **Catalyst**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards 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.

POLY(METHYLHYDROSILOXANE)

ID: 63148-57-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2017-10-11**

#: **0.1000 - 0.7000**

GS: **NoGS**

RC: **None**

NANO: **No**

ROLE: **Water repellent**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards 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.

BORIC ACID (BORIC ACID)

ID: 10043-35-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2017-10-11**

#: **0.0500 - 0.1000**

GS: **LT-1**

RC: **None**

NANO: **No**

ROLE: **Biocide**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

REPRODUCTIVE

EU - R-phrases

R60 - May impair fertility

DEVELOPMENTAL

EU - R-phrases

R61 - May cause harm to the unborn child

ENDOCRINE

EU - Priority Endocrine Disruptors

Category 1 - In vivo evidence of Endocrine Disruption Activity

REPRODUCTIVE

EU - SVHC Authorisation List

Toxic to reproduction - Prioritized for listing

REPRODUCTIVE

EU - GHS (H-Statements)

H360FD - May damage fertility. May damage the unborn child

MULTIPLE

ChemSec - SIN List

CMR - Carcinogen, Mutagen &/or Reproductive Toxicant

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

DEVELOPMENTAL

MAK

Pregnancy Risk Group B

REPRODUCTIVE

Japan - GHS

Toxic to reproduction - Category 1B

REPRODUCTIVE

EU - Annex VI CMRs

Reproductive Toxicity - Category 1B

REPRODUCTIVE

Australia - GHS

H360Fd - May damage fertility. Suspected of damaging the unborn child

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. US EPA - DfE SCIL - Yellow Triangle - best available in class but some hazard profile issues.

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2017-10-11**

#: **0.0500 - 0.2000**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Core strengthening**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards 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.

NAPHTHALENESULFONIC ACID, FORMALDEHYDE POLYMER, CALCIUM SALT

ID: 37293-74-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2017-10-11**

#: **0.0100 - 0.2000**

GS: **LT-P1**

RC: **None**

NANO: **No**

ROLE: **Dispersant**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: **USG** has made an effort to decrease and will ultimately replace this dispersant. 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.

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

UL/GreenGuard Gold Certified

CERTIFYING PARTY: **Third Party**

APPLICABLE FACILITIES: **All**

CERTIFICATE URL:

<https://spot.ulprospector.com/en/na/BuiltEnvironment/Suppliers/32898/USG?st=1>

ISSUE DATE: EXPIRY

2017-10-01

CERTIFIER OR LAB:

UL Environment

CERTIFICATION AND COMPLIANCE NOTES: **VOC emissions testing according to the CDPH 01350 v1.1 2010 criteria.**

LCA

Environmental Product Declaration (EPD) by UL

CERTIFYING PARTY: **Third Party**

APPLICABLE FACILITIES: **All**

CERTIFICATE URL:

<https://spot.ulprospector.com/en/na/BuiltEnvironment/Suppliers/32898/USG?st=1>

ISSUE DATE: EXPIRY

2017-10-01

CERTIFIER OR LAB:

UL Environment

CERTIFICATION AND COMPLIANCE NOTES: **Environmental Product Declaration for the Life-Cycle Assessment of USG Sheetrock® Brand EcoSmart Panels Mold Tough® Firecode® X.**

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.

No accessories are required for this product.

Section 5: General Notes

Ingredient specific notes are included in Section 2.



MANUFACTURER INFORMATION

MANUFACTURER: **USG**

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

WEBSITE: **usg.com**

CONTACT NAME: **USG Sustainability**

TITLE: **Sustainability Manager**

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

SKI 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)

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)

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)

NoGS 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 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

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.