

CLASSIFICATION: 09 20 00

created via: HPDC Online Builder

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 <input type="radio"/> Nested Materials Method <input checked="" type="radio"/> Basic Method	Threshold level <input type="radio"/> 100 ppm <input checked="" type="radio"/> 1,000 ppm <input type="radio"/> Per GHS SDS <input type="radio"/> Per OSHA MSDS <input type="radio"/> Other	Residuals/Impurities <input checked="" type="radio"/> Considered <input type="radio"/> Partially Considered <input type="radio"/> Not Considered <small>Explanation(s) provided for Residuals/Impurities?</small> <input checked="" type="radio"/> Yes <input type="radio"/> No	<i>Are All Substances Above the Threshold Indicated:</i> Characterized <input checked="" type="radio"/> Yes <input type="radio"/> No <i>Percent Weight and Role Provided?</i> Screened <input checked="" type="radio"/> Yes <input type="radio"/> No <i>Using Priority Hazard Lists with Results Disclosed?</i> Identified <input type="radio"/> Yes <input checked="" type="radio"/> No <i>Name and Identifier Provided?</i>
---	--	---	--

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 (GYPSUM) LT-UNK CELLULOSE,
MICROCRYSTALLINE NoGS VERMICULITE (VERMICULITE) NoGS STARCH
(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) (POLY(METHYLHYDROSILOXANE))
NoGS BORIC ACID (BORIC ACID) LT-1 | REP | DEL | END | MUL
UNDISCLOSED LT-UNK NAPHTHALENESULFONIC ACID, FORMALDEHYDE
POLYMER, CALCIUM SALT (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

Material (g/l):
Does the product contain exempt VOCs: No
Are ultra-low VOC tints available: No

Regulatory (g/l):

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

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified? <input type="radio"/> Yes <input checked="" type="radio"/> No	PREPARER: Self-Prepared VERIFIER: VERIFICATION #:	SCREENING DATE: 2017-10-11 PUBLISHED DATE: 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 (GYPSUM) ID: 13397-24-5

%: 85.0000 - 95.0000 GS: LT-UNK RC: PreC NANO: No ROLE: Core

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

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

%: 5.0000 - 8.0000 GS: NoGS RC: PostC NANO: No ROLE: Paper face

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

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

%: 2.0000 - 3.0000 GS: NoGS RC: None NANO: No ROLE: Fire endurance

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

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 (STARCH)

ID: 9005-25-8

%: 0.5000 - 2.0000
GS: LT-UNK
RC: None
NANO: No
ROLE: Binder

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

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

%: 0.1000 - 0.7000
GS: LT-UNK
RC: None
NANO: No
ROLE: Structure

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
CANCER	EU - R-phrases	R40 - Limited Evidence of Carcinogenic Effects
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

%: 0.1000 - 0.7000
GS: LT-UNK
RC: None
NANO: No
ROLE: Catalyst

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

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) (POLY(METHYLHYDROSILOXANE))

ID: 63148-57-2

%: 0.1000 - 0.7000
GS: NoGS
RC: None
NANO: No
ROLE: Water repellant

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

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.

<div> <div>%:</div> <div>0.0500 - 0.1000</div> </div>	<div> <div>GS:</div> <div>LT-1</div> </div>	<div> <div>RC:</div> <div>None</div> </div>	<div> <div>NANO:</div> <div>No</div> </div>	<div> <div>ROLE:</div> <div>Biocide</div> </div>
HAZARDS:		AGENCY(IES) WITH 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

<div>%: 0.0500 - 0.2000</div>		<div>GS: LT-UNK</div>	<div>RC: None</div>	<div>NANO: No</div>	<div>ROLE: Core strengthening</div>
HAZARDS:		AGENCY(IES) WITH WARNINGS:			
None Found		No warnings found on HPD Priority lists			

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 (NAPHTHALENESULFONIC ACID, FORMALDEHYDE POLYMER, CALCIUM SALT)

ID: 37293-74-6

<div>%: 0.0100 - 0.2000</div>		<div>GS: LT-P1</div>		<div>RC: None</div>		<div>NANO: No</div>		<div>ROLE: Dispersant</div>	
HAZARDS:		AGENCY(IES) WITH WARNINGS:							
None Found		No warnings found on HPD Priority lists							

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	ISSUE	EXPIRY DATE:	CERTIFIER OR LAB: UL
APPLICABLE FACILITIES: All	DATE: 2017-10-		Environment
CERTIFICATE URL:	01		
https://spot.ulprospector.com/en/na/BuiltEnvironment/Suppliers/32898/USG?st=1			
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	ISSUE	EXPIRY DATE:	CERTIFIER OR LAB: UL
APPLICABLE FACILITIES: All	DATE : 2017-10-		Environment
CERTIFICATE URL:	01		
https://spot.ulprospector.com/en/na/BuiltEnvironment/Suppliers/32898/USG?st=1			
CERTIFICATION AND COMPLIANCE NOTES: Environmental Product Declaration for the Life-Cycle Assessment of USG Sheetrock® Brand EcoSmart Panels Mold Tough® Firecode® X and can be found at usg.com/sustainability .			

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

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.

Section 6: References

MANUFACTURER INFORMATION

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

GreenScreen (GS)

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

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.