

CLASSIFICATION: 09 51 00

PRODUCT DESCRIPTION: Arboreal® is a finish option for Barz™, Radians®, Illusions™, Mirra™-Planx™, and Wallforms™. Arboreal® is a part of a real wood veneer panel system consisting of an aluminum core, adhesive system, and UV finish coating. The wood veneer is laminated to aluminum and is factory finished with a clear or stained UV coating.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

☐ Nested Materials Method

☒ Basic Method

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 except SC substances characterized according to SC guidance.

Screened

☒ Yes Ex/SC ☐ Yes ☐ No

All substances screened using Priority Hazard Lists with results disclosed except SC substances screened according to SC guidance.

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

ARBOREAL® FINISH FOR USG CEILINGS PLUS PRODUCTS [UNS A93105 ALUMINUM ALLOY NoGS SC:WOOD Not Screened UNDISCLOSED LT-UNK POLYURETHANE LT-P1 UNDISCLOSED BM-2 | RES AMORPHOUS SILICA NoGS]

Number of Greenscreen BM-4/BM3 contents ... 0

Contents highest concern GreenScreen Benchmark or List translator Score ... LT-P1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Special conditions applied: BiologicalMaterial

[LEED v4] "Yes ex/SC" result is due only to materials and substances for which Special Conditions were applied. Thus "Yes ex/SC" does not disqualify the product for the LEED v4 Materials and Resources Disclosure and Optimization credit, Option 1.

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: Self-declared

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

☐ Yes

☒ No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2019-08-21

PUBLISHED DATE: 2019-10-09

EXPIRY DATE: 2022-08-21

Arboreal Finish for USG Ceilings Plus Products
hpcrepository.hpdc-collaborative.org

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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

ARBOREAL® FINISH FOR USG CEILINGS PLUS PRODUCTS

PRODUCT THRESHOLD: 1000 ppm	RESIDUALS AND IMPURITIES CONSIDERED: Yes
RESIDUALS AND IMPURITIES NOTES: This HPD covers the Arboreal® finish options for Barz™, Radians®, Illusions™, Mirra™-Planx™, and Wallforms™.	
OTHER PRODUCT NOTES: This product is made at Los Angeles, CA.	

UNS A93105 ALUMINUM ALLOY		ID: Not registered
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-21
%: 90.00 - 92.00	GS: NoGS	RC: Both NANO: No ROLE: Product structure
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists
SUBSTANCE NOTES: This aluminum alloy contains a combination of aluminum, zinc, magnesium, silicon, manganese, and chromium (III). These alloying elements have various functions such as grain growth, electrical resistivity, strength, corrosive resistance, and stress cracking resistance. The elements in this alloy are solid and not in a respirable form .		

SC:WOOD		ID: SC:Bio
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-21
%: 5.00 - 7.00	GS: Not Screened	RC: None NANO: No ROLE: Wood veneer
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	Hazard Screening not performed	
SUBSTANCE NOTES: Version: SCBioMats/2018-02-23 Category: Tree-based materials Identifier: Prunus, Acer, Swietenia, Juglans, and Quercus		
This disclosure does not provide information on allergens, hyper-accumulation of metals, production of any toxic substances during normal metabolic activities, pesticides, and other potential hazards or sources of hazards which may be found in certain biological materials.		
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

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

HAZARD SCREENING DATE: **2019-08-21**

?: **1.10 - 1.80**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Topcoat/Curing additive**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: **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 4.0).**

POLYURETHANE

ID: **64440-88-6**

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

HAZARD SCREENING DATE: **2019-08-21**

?: **1.00 - 2.00**

GS: **LT-P1**

RC: **None**

NANO: **No**

ROLE: **Adhesive**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard 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.**

UNDISCLOSED

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

HAZARD SCREENING DATE: **2019-08-21**

?: **0.10 - 0.30**

GS: **BM-2**

RC: **None**

NANO: **No**

ROLE: **Topcoat fire resistance**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: **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 4.0).**

AMORPHOUS SILICA

ID: **112945-53-6**

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

HAZARD SCREENING DATE: **2019-08-21**

?: **0.00 - 0.20**

GS: **NoGS**

RC: **None**

NANO: **No**

ROLE: **Topcoat inert filler**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard 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.**

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	Self-declared		
CERTIFYING PARTY: Self-declared	ISSUE DATE: 2019-08-20	EXPIRY DATE:	CERTIFIER OR LAB: Self-declared
APPLICABLE FACILITIES: Los Angeles, CA			
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.

ABSORBING MATERIAL	HPD URL: No HPD Available
CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: A variety of sound absorbing backings are available. Ceilings Plus® can supply absorbing material which can achieve NRC values ranging from .65 - .95.	

Section 5: General Notes

Ingredient specific notes are included in Section 2.



MANUFACTURER INFORMATION

MANUFACTURER: **USG**

ADDRESS: **550 West Adams Street**

Chicago IL 60661, US

WEBSITE: **usg.com**

CONTACT NAME: **Stacy Simpson**

TITLE: **Sustainability Manger**

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.