

CLASSIFICATION: 09 77 53 Finishes: Vegetated Wall Systems

PRODUCT DESCRIPTION: Garden On The Wall offers a wide range of custom designed garden installations, created with all natural preserved plants. These long-lasting, maintenance-free gardens require no water, misting or irrigation, no light, and no soil – but retain a vibrant, fresh-cut look and feel for up to 10 years. This HPD covers Garden On The Wall's Preserved Wall Garden Systems using 1/4" thick Medium Density Fiberboard (MDF). Flame resistant MDF available.

Section 1: Summary

Nested Method / Material 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

Residuals/Impurities
Considered in 3 of 3 Materials

- 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

MDF BACKERBOARD [**WOOD FIBER - UNSPECIFIED** NoGS
UNDISCLOSED LT-UNK **WATER** BM-4 **UNDISCLOSED** LT-UNK
UNDISCLOSED LT-1 | REP | MUL] **ADHESIVE** [**WATER** BM-4
UNDISCLOSED LT-UNK | CAN **STYRENE BUTADIENE RUBBER (SBR)** LT-
UNK **UNDISCLOSED** LT-1 | PBT | CAN | MUL **UNDISCLOSED** NoGS **UREA**
LT-UNK **TITANIUM DIOXIDE** LT-1 | CAN | END **QUARTZ** LT-1 | CAN]
PRESERVED PLANTS [**UNDISCLOSED** LT-UNK **UNDISCLOSED** LT-P1 |
RES **UNDISCLOSED** LT-UNK **UNDISCLOSED** LT-UNK **UNDISCLOSED** LT-
UNK **BEECH** NoGS **TREE FERNS** NoGS **CALIFORNIA FAN PALM** NoGS
NORTHERN WHITECEDAR NoGS **OAK** NoGS **POPLAR** NoGS
THEOPHRASTUS'S DATE PALM NoGS **SC:MOSESSES (BRYOPHYTA)** Not
Screened **SC:ASPARAGUS SP.** Not Screened **SC:PITTOSPORUM SP.** Not
Screened **SC:ADIANTUM SP.** Not Screened **SC:BEAR GRASS** Not Screened
SC:SALAL Not Screened **SC:SCHINUS SP.** Not Screened **SC:HEDERA SP.**
Not Screened **EUCALYPTUS** NoGS **AMARANTH** LT-UNK
SC:HELICHRYSUM SP. Not Screened **SC:GYPSOPHILA SP** Not Screened
SC:SORBUS SP. Not Screened **SC:GYNERIUM SP.** Not Screened]

Number of Greenscreen BM-4/BM3 contents ... 2

Contents highest concern GreenScreen
Benchmark or List translator Score ... LT-1
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.

This Health Product Declaration (HPD) was completed in accordance with the HPD Standard version 2.1.1, and discloses hazards associated with all substances present at or above 1000 parts per million (ppm) in the finished product system, as well as the role and percent by weight. Substances not "Identified" are those considered proprietary to suppliers, or are those without a registered identifier.

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: CDPH Standard Method - Not Tested

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: 2019-03-06

PUBLISHED DATE: 2019-03-06

EXPIRY DATE: 2022-03-06



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

MDF BACKERBOARD

#: 54.9000 - 64.3000

MATERIAL THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were "Considered", as outlined in Emerging Best Practices. No residuals or impurities are known or expected to be present at or above the Content Inventory Threshold indicated that have a GS score of BM-1, LT-1, LT-P1 or NoGS based on information provided in supplier disclosure letters, supplier SDS, and as predicted by process chemistry (Pharos CML).

OTHER MATERIAL NOTES: Medium density fiberboard (MDF) to which preserved plants are attached. Percent range given for material due to the various plant species and densities available for this wall garden system. MDF certifications include: CARB Composite Wood ATCM CA 93120 No-Added Formaldehyde (NAF); ECC Eco-Certified Composite; SCS Material Content - No Added Formaldehyde; SCS Recycled Content Certification. Flame resistant MDF available.

WOOD FIBER - UNSPECIFIED

ID: Not registered

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-03-06

#: 70.0000 - 90.0000

GS: NoGS

RC: PreC

NANO: No

ROLE: Substrate

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: All wood fiber is qualified as 100% pre-consumer (post-industrial) recycled wood. Percent range given is due to use of optional flame retardant.

UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-03-06

#: 3.0000 - 7.0000

GS: LT-UNK

RC: None

NANO: No

ROLE: Polymer Binder

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: Supplier has shared substance identity under the terms of a non-disclosure agreement; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed.

WATER

ID: 7732-18-5

%: **3.0000 - 7.0000**GS: **BM-4**RC: **None**NANO: **No**ROLE: **Solvent**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: GreenScreen Benchmark® assessment score of BM-4 was provided by the HPD Builder Tool.

UNDISCLOSED%: **0.1000 - 0.5000**GS: **LT-UNK**RC: **None**NANO: **No**ROLE: **Sizing Wax**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: Supplier has shared substance identity under the terms of a non-disclosure agreement; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed.

UNDISCLOSED%: **0.0000 - 20.0000**GS: **LT-1**RC: **None**NANO: **No**ROLE: **Flame Retardant**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

REPRODUCTIVE

EU - GHS (H-Statements)

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

REPRODUCTIVE

EU - REACH Annex XVII CMRs

Toxic to Reproduction Category 2 - Substances which should be regarded as if they impair fertility or cause Developmental Toxicity in humans

MULTIPLE

ChemSec - SIN List

CMR - Carcinogen, Mutagen &/or Reproductive Toxicant

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: MDF Supplier has confirmed this substance is the sole flame retardant additive used in the current formulation, via a disclosure letter issued in confidentiality. Substance to remain proprietary; however, all known hazards have been disclosed. Percent range reported reflects optional use of flame retardant in MDF boards.

ADHESIVE%: **20.4000 - 25.9000**

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were “Considered”, as outlined in Emerging Best Practices. Residuals or impurities with the potential to be present at or above the Content Inventory Threshold indicated that return a GS score of BM-1, LT-1, LT-P1 or NoGS have been disclosed, based on information provided in supplier disclosure letters, supplier SDS, and as predicted by process chemistry (Pharos CML).

OTHER MATERIAL NOTES: Used to affix preserved plants to backer board. Solvent-free, VOC-free (calculated) adhesive with CRI Green Label Plus. Percent range given for material due to the various plant species and densities available for this wall garden system. Percent range given for substances as requested by supplier.

WATER

ID: 7732-18-5

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

HAZARD SCREENING DATE: **2019-03-06**

#: **30.0000 - 35.0000** GS: **BM-4** RC: **None** NANO: **No** ROLE: **Solvent, Diluent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

No hazards found

SUBSTANCE NOTES: GreenScreen Benchmark® assessment score of BM-4 was provided by the HPD Builder Tool.

UNDISCLOSED

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

HAZARD SCREENING DATE: **2019-03-06**

#: **25.0000 - 30.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Filler**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

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

SUBSTANCE NOTES: Substance to remain proprietary to Supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed.

STYRENE BUTADIENE RUBBER (SBR)

ID: 9003-55-8

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

HAZARD SCREENING DATE: **2019-03-06**

#: **20.0000 - 25.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Adhesive/Binder**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

No hazards found

SUBSTANCE NOTES:

UNDISCLOSED

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

HAZARD SCREENING DATE: **2019-03-06**

#: 5.0000 - 10.0000

GS: LT-1

RC: None

NANO: No

ROLE: Raw Material

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer
CANCER	EU - REACH Annex XVII CMRs	Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
CANCER	Japan - GHS	Carcinogenicity - Category 1A
CANCER	Australia - GHS	H350 - May cause cancer

SUBSTANCE NOTES: Substance to remain proprietary to Supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed.

UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-03-06

#: 5.0000 - 10.0000

GS: NoGS

RC: None

NANO: No

ROLE: Raw Material

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

SUBSTANCE NOTES: Substance to remain proprietary to Supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed.

UREA

ID: 57-13-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-03-06

#: 1.0000 - 5.0000

GS: LT-UNK

RC: None

NANO: No

ROLE: Freeze-Thaw Stability

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	No hazards found	

SUBSTANCE NOTES:

TITANIUM DIOXIDE

ID: 13463-67-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-03-06

%: **Impurity/Residual** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

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
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

SUBSTANCE NOTES: This substance is a possible impurity within the Inert Filler. Form-specific hazards are restricted to respirable forms of this substance, and thus are not expected to apply to this product.

QUARTZ

ID: **14808-60-7**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-03-06**

%: **Impurity/Residual** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources
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	New Zealand - GHS	6.7A - Known or presumed human carcinogens
CANCER	Japan - GHS	Carcinogenicity - Category 1A
CANCER	Australia - GHS	H350i - May cause cancer by inhalation

SUBSTANCE NOTES: This substance is a possible impurity within the Inert Filler. Form specific hazards restricted to respirable form of crystalline silica, and thus are not expected to apply to this product.

PRESERVED PLANTS

%: **16.2000 - 19.2000**

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were “Considered”, as outlined in Emerging Best Practices. No residuals or impurities are known or expected to be present at or above the Content Inventory Threshold indicated that have a GS score of BM-1, LT-1, LT-P1 or NoGS based on information provided in supplier disclosure letters, supplier SDS, and as predicted by process chemistry (Pharos CML).

OTHER MATERIAL NOTES: Percent range given for material and substances due to the various plant species and densities available for this wall garden system.

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-03-06**
 %: **68.3000 - 71.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Plant Preservative**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List (Green Half-Circle - Expected Low Concern). Substance to remain proprietary to Supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed.

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-03-06**
 %: **0.0000 - 0.2500** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Red Pigment**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagen	Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: Substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed.

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-03-06**
 %: **0.0000 - 0.3800** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Yellow Pigment**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

SUBSTANCE NOTES: Substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed.

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-03-06**

#: 0.0000 - 0.0600

GS: LT-UNK

RC: None

NANO: No

ROLE: Blue Pigment

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: Substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed.

UNDISCLOSED

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

HAZARD SCREENING DATE: **2019-03-06**

#: 0.0000 - 0.0300

GS: LT-UNK

RC: None

NANO: No

ROLE: Blue Pigment

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: Substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed.

BEECH

ID: **Not registered**

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

HAZARD SCREENING DATE: **2019-03-06**

#: 0.0000 - 30.0000

GS: NoGS

RC: None

NANO: No

ROLE: Plant Species

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: Fagus spp. Percent range given due to various plant species and densities available.

TREE FERNS

ID: **Not registered**

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

HAZARD SCREENING DATE: **2019-03-06**

#: 0.0000 - 30.0000

GS: NoGS

RC: None

NANO: No

ROLE: Plant Species

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: Cyanthea spp. Percent range given due to various plant species and densities available.

CALIFORNIA FAN PALM

ID: **Not registered**

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

HAZARD SCREENING DATE: **2019-03-06**

#: 0.0000 - 30.0000

GS: NoGS

RC: None

NANO: No

ROLE: Plant Species

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

SUBSTANCE NOTES: *Washingtonia filifera*. Percent range given due to various plant species and densities available.

NORTHERN WHITECEDAR

ID: **Not registered**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2019-03-06			
%: 0.0000 - 30.0000	GS: NoGS	RC: None	NANO: No	ROLE: Plant Species

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

SUBSTANCE NOTES: *Thuja occidentalis*, *Arborvitae*. Percent range given due to various plant species and densities available.

OAK

ID: **Not registered**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2019-03-06			
%: 0.0000 - 30.0000	GS: NoGS	RC: None	NANO: No	ROLE: Plant Species

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

SUBSTANCE NOTES: *Quercus* spp. Percent range given due to various plant species and densities available.

POPLAR

ID: **Not registered**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2019-03-06			
%: 0.0000 - 30.0000	GS: NoGS	RC: None	NANO: No	ROLE: Plant Species

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

SUBSTANCE NOTES: *Populus* spp. Percent range given due to various plant species and densities available.

THEOPHRASTUS'S DATE PALM

ID: **Not registered**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2019-03-06			
%: 0.0000 - 30.0000	GS: NoGS	RC: None	NANO: No	ROLE: Plant Species

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

SUBSTANCE NOTES: Phoenix sp. Percent range given due to various plant species and densities available.

SC:MOSESSES (BRYOPHYTA)

ID: **SC:Bio**

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

HAZARD SCREENING DATE: **2019-03-06**

#: **0.0000 - 30.0000**

GS: **Not Screened**

RC: **None**

NANO: **No**

ROLE: **Plant Species**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES:

Version: SCBioMats/2018-02-23

Category: Plant-based materials

Identifier: MOSESSES (BRYOPHYTA)

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.

Flat moss, pole moss, ball moss. Percent range given due to various plant species and densities available.

SC:ASPARAGUS SP.

ID: **SC:Bio**

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

HAZARD SCREENING DATE: **2019-03-06**

#: **0.0000 - 30.0000**

GS: **Not Screened**

RC: **None**

NANO: **No**

ROLE: **Plant Species**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES:

Version: SCBioMats/2018-02-23

Category: Plant-based materials

Identifier: ASPARAGUS SP.

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.

Ming fern (*A. retrofractus*, *A. macowanii*), Foxtail fern (*A. densiflorus*). Percent range given due to various plant species and densities available.

SC:PITOSPORUM SP.

ID: **SC:Bio**

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

HAZARD SCREENING DATE: **2019-03-06**

#: **0.0000 - 30.0000**

GS: **Not Screened**

RC: **None**

NANO: **No**

ROLE: **Plant Species**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES:

Version: SCBioMats/2018-02-23

Category: Plant-based materials

Identifier: PITTOSPORUM SP.

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.

Percent range given due to various plant species and densities available.

SC:ADIANTUM SP.

ID: **SC:Bio**

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

HAZARD SCREENING DATE: **2019-03-06**

#: **0.0000 - 30.0000**

GS: **Not Screened**

RC: **None**

NANO: **No**

ROLE: **Plant Species**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES:

Version: SCBioMats/2018-02-23

Category: Plant-based materials

Identifier: ADIANTUM SP.

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.

Maidenhair fern, five-fingered fern. Percent range given due to various plant species and densities available.

SC:BEAR GRASS

ID: **SC:Bio**

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

HAZARD SCREENING DATE: **2019-03-06**

#: **0.0000 - 30.0000**

GS: **Not Screened**

RC: **None**

NANO: **No**

ROLE: **Plant Species**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES:

Version: SCBioMats/2018-02-23

Category: Plant-based materials

Identifier: Xerophyllum tenax

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.

Indian basket grass. Percent range given due to various plant species and densities available.

SC:SALAL

ID: **SC:Bio**

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

HAZARD SCREENING DATE: **2019-03-06**

#: **0.0000 - 30.0000**

GS: **Not Screened**

RC: **None**

NANO: **No**

ROLE: **Plant Species**

Hazard Screening not performed

SUBSTANCE NOTES:

Version: SCBioMats/2018-02-23
 Category: Plant-based materials
 Identifier: Gaultheria shallon

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.

Percent range given due to various plant species and densities available.

SC: SCHINUS SP.ID: **SC:Bio**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-03-06**%: **0.0000 - 30.0000**GS: **Not Screened**RC: **None**NANO: **No**ROLE: **Plant Species**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES:

Version: SCBioMats/2018-02-23
 Category: Plant-based materials
 Identifier: SCHINUS SP.

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.

Peppertree. Percent range given due to various plant species and densities available.

SC: HEDERA SP.ID: **SC:Bio**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-03-06**%: **0.0000 - 30.0000**GS: **Not Screened**RC: **None**NANO: **No**ROLE: **Plant Species**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES:

Version: SCBioMats/2018-02-23
 Category: Plant-based materials
 Identifier: HEDERA SP.

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.

Common ivy, English ivy (H. helix, H. arborea). Percent range given due to various plant species and densities available.

EUCALYPTUSID: **Not registered**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-03-06**%: **0.0000 - 30.0000**GS: **NoGS**RC: **None**NANO: **No**ROLE: **Plant Species**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: **Cinerea (E. cinerea), Gunny (E. gunnii), Nicoloy (E. nicholii), Parvafolia (E. parvula).** Percent range given due to various plant species and densities available.

AMARANTHID: **915-67-3**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-03-06**%: **0.0000 - 30.0000**GS: **LT-UNK**RC: **None**NANO: **No**ROLE: **Plant Species**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: **Percent range given due to various plant species and densities available.**

SC:HELICHRYSUM SP.ID: **SC:Bio**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-03-06**%: **0.0000 - 30.0000**GS: **Not Screened**RC: **None**NANO: **No**ROLE: **Plant Species**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES:

Version: **SCBioMats/2018-02-23**Category: **Plant-based materials**Identifier: **HELICHRYSUM SP.**

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.

White dogwood, rice flower (H. diosmi). Percent range given due to various plant species and densities available.

SC:GYPSOPHILA SPID: **SC:Bio**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-03-06**%: **0.0000 - 30.0000**GS: **Not Screened**RC: **None**NANO: **No**ROLE: **Plant Species**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES:

Version: SCBioMats/2018-02-23

Category: Plant-based materials

Identifier: GYPSOPHILA SP

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.

Mini Gyppo, baby's-breath. Percent range given due to various plant species and densities available.

SC:SORBUS SP.

ID: **SC:Bio**

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

HAZARD SCREENING DATE: **2019-03-06**

#: **0.0000 - 30.0000**

GS: **Not Screened**

RC: **None**

NANO: **No**

ROLE: **Plant Species**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES:

Version: SCBioMats/2018-02-23

Category: Plant-based materials

Identifier: SORBUS SP.

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.

Red Alisier. Percent range given due to various plant species and densities available.

SC:GYNERIUM SP.

ID: **SC:Bio**

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

HAZARD SCREENING DATE: **2019-03-06**

#: **0.0000 - 30.0000**

GS: **Not Screened**

RC: **None**

NANO: **No**

ROLE: **Plant Species**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES:

Version: SCBioMats/2018-02-23

Category: Plant-based materials

Identifier: Gynerium sagittatum

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.

Gynerium grass. Percent range given due to various plant species and densities available.

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

CDPH Standard Method - Not Tested

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2019-**

EXPIRY DATE:

CERTIFIER OR LAB: **N/A**

APPLICABLE FACILITIES: **N/A**

03-06

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **The MDF backer board used as a component of this product is CDPH Standard Method V1.2 Compliant. The standard adhesive used as a component of this product has VOC content of 0 g/L. Please contact Garden On The Wall for more information if required.**

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.

MOUNTING HARDWARE

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Used to mount Garden on the Wall's Preserved Wall Garden Systems.

STYROFOAM® FLORAL FOAM

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Used to add fullness to some Preserved Wall Gardens. Product Safety Assessment for this product can be found at: <http://ow.ly/hW1a30nWLGP>

Section 5: General Notes

Various options are available for Garden On The Wall's Preserved Wall Garden Systems, including the species and density of preserved plants, type and flame resistance of backer board, and even the adhesive used to affix the preserved plants to the backer board. The HPDs published by Garden On The Wall reflect the options most commonly used in our Preserved Wall Garden Systems.



MANUFACTURER INFORMATION

MANUFACTURER: **Garden On The Wall**

ADDRESS: **5 Washington Court**

Livingston NJ 07039, USA

WEBSITE: **www.gardenonthewall.com**

CONTACT NAME: **Miné Hisim**

TITLE: **Architectural Sales Manager**

PHONE: **888-234-3392**

EMAIL: **mine@gardenonthewall.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.