

Name greenscreen®



Product ID N/A Classification 10 82 00.00 Specialties: Grilles and Screens

Website www.greenscreen.com

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Description greenscreen® is a three dimensional, welded wire trellising system comprised of modular, rigid, lightweight trellis panels and engineered attachments that facilitate the incorporation of vegetation into diverse design applications This HPD covers a standard (48" x 96") greenscreen® panel in the following colors: White, Black, Bronze, Silver, and Green.

Release Date 2015-01-16 Expiry Date 2018-01-16
HPD URL https://tool.hpdcollaborative.org/uploads/files/hpds/66/2584-20150116124544.pdf
Certifier Certicate #

SUMMARY DISCLOSURE

The content of this product was assessed for health hazard warnings as required using Pharos

Residuals Disclosure Full Disclosure of Intentional Ingredients Full Disclosure of Known Hazards Disclosure Notes
As per MSDS (1,000 & 10,000 ppm) There was no residual content present identified at 1,000 & 10,000 ppm with any of the ingredients present in the final greenscreen® product formulation.

Contents in Descending Order of Quantity

IRON , ZINC , Unknown , Unknown , Unknown , EPICHLOROHYDRIN-BISPHENOL A RESIN , Titanium dioxide , Alumina trihydrate , Mica , NEPHELINE SYENITE , Unknown , BISPHENOL A (BPA) , ALUMINUM , TRIGLYCIDYL ISOCYANURATE (TGIC)

Hazards Highest concern GreenScreen score - Benchmark 1
PBT (Persistent Bioaccumulative Toxic) Cancer Gene Mutation
Development Reproductive Endocrine Respiratory
Neurotoxicity Mammal Skin or Eye Aquatic toxicity
Land toxicity Physical hazard Global warming Ozone depletion
Multiple Unknown

Total VOC Content Material (g/L) Regulatory (g/L)
N/A N/A
Does the product contain exempt VOCs? Are there VOC-free tints available?

Notes

Certifications + Compliance

VOC Emissions Not tested VOC Content N/A

The HPD Standard is solely a declaration of product content and direct health hazards associated with exposure to its individual contents. It is not a full assessment of environmental impacts from the life cycle of this product. It is not an assessment of risks associated with actual use of the product. It does not address the potential health impacts of substances used or created during manufacture that do not appear in the final product as residuals, nor substances created during combustion or other degradation processes.

This Health Product Declaration was generated following the requirements of the noted Standard version and is valid for a total of three years after date of issue or three months after a substantive change of product contents occurs. Users should verify that this Health Product Declaration is compliant with the most current version of the HPD Standard. Accuracy of claims made in this Health Product Declaration is the sole responsibility of the listed manufacturer and certifier (if applicable). The HPD Collaborative does not warrant any claim made herein, explicit or implicit. The HPD Standard is an "open standard" developed and managed by the HPD Collaborative, a nonprofit organization. For more information, visit [hpdcollaborative.org](http://hpdcollaborative.org).

## CONTENT IN DESCENDING ORDER OF QUANTITY

All ingredients must be assessed for health warnings against Priority Hazard Lists, regardless of disclosure level.

Priority Hazard Lists and information on the GreenScreen Benchmarks can be found at [www.hpdcollaborative.org/hazardlists](http://www.hpdcollaborative.org/hazardlists).

**GS:** GreenScreen Benchmark; **RC:** Recycled Content, **PC:** Post Consumer, **PI:** Post Industrial (Pre-consumer), **BO:** Both; **Nano:** comprised of nanoscale particles or nanotechnology

Name	CAS RN	% weight	GS	RC	Nano	Role
<b>Hazard A</b>	<b>Warning A</b>					
<b>Hazard B</b>	<b>Warning B</b>					
<b>Hazard C</b>	<b>Warning C</b>					
<b>Hazard D</b>	<b>Warning D</b>					
<b>Hazard E</b>	<b>Warning E</b>					
<b>Notes</b>						
<b>IRON</b>	7439-89-6	90.5 %	LT-U	BO	N	Structure Component
None found	No warnings found on HPD Priority lists					
Maximum ingredient % composition present in the final greenscreen® product formulation						
<b>ZINC</b>	7440-66-6	4.5 %	LT-P1	BO	N	Structure Component
ACUTE AQUATIC	EU H-Statements: H400 - Aquatic Acute 1 - Very toxic to aquatic life (also in EU R-Phrases)					
CHRON AQUATIC	EU H-Statements: H410 - Aquatic Chronic 1 - Very toxic to aquatic life with long lasting effects					
FLAMMABLE	EU H-Statements: H250 Catches fire spontaneously if exposed to air					
REACTIVE	EU H-Statements: H260 In contact with water releases flammable gases which may ignite spontaneously					
RESPIRATORY	AOEC: Asthmagen (ARs) - sensitizer-induced - inhalable forms only					
Maximum ingredient % composition present in the final greenscreen® product formulation						
<b>Unknown</b>	Unknown	1.7 %		U	U	Colorant Component
Unknown	Not disclosed by supplier					
Component of Silver Colorant - Colorant MSDS identifies that with the current knowledge of the supplier, and in the concentrations applicable, the undisclosed ingredient is not considered as hazardous to health or the environment. Maximum ingredient % composition present in the final greenscreen® product formulation						
<b>Unknown</b>	Unknown	1.3 - 1.5 %		U	U	Colorant Component
Unknown	Not disclosed by supplier					
Component of Green Colorant - Colorant MSDS identifies that with the current knowledge of the supplier, and in the concentrations applicable, the undisclosed ingredient is not considered as hazardous to health or the environment. Maximum ingredient % composition present in the final						

<b>Unknown</b>	Unknown	1.3 - 1.5 %		U	U	Colorant Component
Unknown	Not disclosed by supplier					
Component of Black Colorant - Colorant MSDS identifies that with the current knowledge of the supplier, and in the concentrations applicable, the undisclosed ingredient is not considered as hazardous to health or the environment. Range of ingredient % composition present in the final greenscreen® product formulation						
<b>EPICHLOROHYDRIN-BISPHENOL A RESIN</b>	25068-38-6	0.62 - 1.8 %	LT-P1	N	N	Primer Coating Component
EYE IRRITATION	EU R-Phrases: R36: Irritating to eyes. (also in EU H-Statements)					
SKIN IRRITATION	EU R-Phrases: R38: Irritating to skin. (also in EU H-Statements)					
SKIN SENSITIZE	EU R-Phrases: R43: May cause sensitization by skin contact.					
ACUTE AQUATIC	EU R-Phrases: R51: Toxic to aquatic organisms.					
CHRON AQUATIC	EU H-Statements: H411 - Aquatic Chronic 2 - Toxic to aquatic life with long lasting effects					
MULTIPLE	VwVwS: Class 2 Hazard to Waters (also in EPA Action)					
DEVELOPMENTAL	EPA Action: Developmental Effects					
REPRODUCTIVE	EPA Action: Reproductive effects					
Range of ingredient % composition present in the final greenscreen® product formulation						
<b>Titanium dioxide</b>	13463-67-7	0.61 - 1.9 %	LT-1	N	N	Primer Coating Component & Colorant Component
CANCER	NIOSH-C: Occupational carcinogen (also in Prop 65, IARC, MAK)					
Range of ingredient % composition present in the final greenscreen® product formulation						
<b>Alumina trihydrate</b>	21645-51-2	0.55 - 1.1 %	2	N	N	Colorant Component
RESPIRATORY	AOEC: Asthmagen (ARs) - sensitizer-induced - inhalable forms only					
Range of ingredient % composition present in the final greenscreen® product formulation						
<b>Mica</b>	12001-26-2	0.5 - 0.62 %	LT-U	N	N	Primer Coating Component
None found	No warnings found on HPD Priority lists					
Range of ingredient % composition present in the final greenscreen® product formulation						
<b>NEPHELINE SYENITE</b>	37244-96-5	0.4 - 0.6 %	LT-U	N	N	Colorant Component
None found	No warnings found on HPD Priority lists					
Component of Green and Black Colorants. Range of ingredient % composition present in the final greenscreen® product formulation						
<b>Unknown</b>	Unknown	0.1 - 0.2 %		U	U	Colorant Component
Unknown	Not disclosed by supplier					
Component of Green Colorant - Colorant MSDS identifies that with the current knowledge of the supplier, and in the concentrations applicable, the undisclosed ingredient is not considered as hazardous to health or the environment. Range of ingredient % composition present in the final greenscreen® product formulation						
<b>BISPHENOL A (BPA)</b>	80-05-7	0.06 - 0.25 %	1	N	N	Primer Coating Component
DEVELOPMENTAL	NTP-OHAaT: A-Clear evidence of adverse developmental toxicant effects (also in EPA Action)					

REPRODUCTIVE	NTP-OHAaT: B-Some evidence of adverse reproductive toxicant effects (also in EU R-Phrases, EU H-Statements, EPA Action)					
ENDOCRINE	EU ED: Category 1 - In vivo evidence of endocrine disruption activity (also in OSPAR, SIN, TEDX)					
EYE IRRITATION	EU H-Statements: H318 Causes serious eye damage (also in EU R-Phrases)					
SKIN IRRITATION	EU H-Statements: H317 May cause an allergic skin reaction					
SKIN SENSITIZE	EU R-Phrases: R43: May cause sensitization by skin contact. (also in MAK)					
ACUTE AQUATIC	EU R-Phrases: R52: Harmful to aquatic organisms.					
MULTIPLE	VwVwS: Class 2 Hazard to Waters (also in EPA Action)					
Range of ingredient % composition present in the final greenscreen® product formulation						

<b>ALUMINUM</b>	7429-90-5	0.05 - 0.2 %	LT-P1	N	N	Colorant Component
ENDOCRINE	TEDX: Potential Endocrine Disruptor					
RESPIRATORY	AOEC: Asthmagen (ARs) - sensitizer-induced - inhalable forms only					
FLAMMABLE	EU H-Statements: H228 Flammable solid					
REACTIVE	EU H-Statements: H261 In contact with water releases flammable gases					
Range of ingredient % composition present in the final greenscreen® product formulation						

<b>TRIGLYCIDYL ISOCYANURATE (TGIC)</b>	2451-62-9	0.05 - 0.2 %	LT-1	U	N	Colorant Component
GENE MUTATION	EU R-Phrases: R46: May cause heritable genetic damage. (also in EU H-Statements, EU CMR (1), EU SVHC, EU CMR (2))					
RESPIRATORY	AOEC: Asthmagen (ARs) - sensitizer-induced (also in MAK)					
MAMMALIAN	EU R-Phrases: R25: Toxic if swallowed. (also in EU H-Statements)					
EYE IRRITATION	EU H-Statements: H318 Causes serious eye damage (also in EU R-Phrases)					
SKIN IRRITATION	EU H-Statements: H317 May cause an allergic skin reaction					
SKIN SENSITIZE	EU R-Phrases: R43: May cause sensitization by skin contact.					
ORGAN TOXICANT	EU R-Phrases: R48: Danger of serious damage to health by prolonged exposure.					
ACUTE AQUATIC	EU R-Phrases: R52: Harmful to aquatic organisms.					
MULTIPLE	SIN: Classified CMR (Carcinogen, Mutagen &/or Reproductive Toxicant) (also in VwVwS)					
Colorant component used in White, Black, Silver, and Bronze product colors. Range of ingredient % composition present in the final greenscreen® product formulation						

**CERTIFICATIONS AND COMPLIANCE**

**Certifying Party** = First: Manufacturer's self-declaration; Second: Verification by trade association or other interested party; Third: Verification by independent certifier (ideal).

**Applicable facilities** = Manufacturing sites to which testing applies.

Type	Standard or Certification			Certifier or Laboratory
	Certifying Party	Issue Date	Expiry Date	Certificate URL
	Applicable Facilities			
	Notes			

VOC Emissions	Not tested			
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VOC Content	N/A		
Recycled Content	Not tested		
Other			

**ACCESSORY MATERIALS**

This section is for additional products required by warranty or recommended by the manufacturer for installation (such as adhesives, fasteners, or factory coatings) or for maintenance, cleaning, or operations. Refer to Health Product Declarations, published separately, for a complete view of these products.

Note: This declaration is not intended to address hazards of the installation process.

Required or Recommended Product	URL for Companion Health Product Declaration
<b>Condition when required or recommended and/or other notes</b>	
Edge Trim	N/A
Edge Trim is used as closure strips at the edges of the greenscreen® panels - recommended on panel edges adjacent to pedestrian traffic or where edge treatment for plant maintenance is desired	
Adjustable Mounting Clips	N/A
Clips are used as a flush mounting clip for wall mounted or steel mounted greenscreen® panels - clips provide full depth panel support for uplift and downloading	
Standoff Brackets	N/A
Standoff brackets are recommended for use as a mounting bracket for wall mounted greenscreen® panels to support screens held off the wall surface at a maximum of 18"	
Snap Clips	N/A
Snap clips are used for mounting greenscreen® panels in freestanding, flush applications	
"C" Clips	N/A
"C" clips are used on greenscreen® panels with channel or edge trim to hold screen edge to a vertical wall, column or post, or to attach a screen bottom edge to a horizontal slab or beam	

Steel Posts & Post Caps	N/A
Steel posts are used for freestanding modular screens and fences	
Planter Straps	N/A
Planter straps are used for mounting standard 4' wide greenscreen® panels to custom planters	
Spacer	N/A
Spacers are used with mounting clips to provide a clear space between the clip and the mounting surface/structure or used for spacing mounting clips away from wall or floor surfaces	
Flex "C" Ring	N/A
Flex "C" rings are used for "in-field" joining of greenscreen® panels together edge to edge. Can be factory or field applied	

**NOTES**

Life Cycle Assessment: A Life Cycle Assessment (LCA) was performed on the greenscreen® product by PE International, Inc. on October 31, 2011. The approach used to carry out the LCA is compliant with the ISO 14040 (2006) and ISO 14044 (2006) principles and requirements. For more information, please visit the Education + Research tab on the greenscreen® website at: [www.greenscreen.com](http://www.greenscreen.com)