

CLASSIFICATION: 09 84 00 Acoustic Room Components

PRODUCT DESCRIPTION: Versatile EchoPanel® acoustic panels and tiles add color and style to any space while absorbing extra noise. EchoPanel® panels and tiles are manufactured using recycled PET plastic bottles, eco-friendly dyes and no added adhesive, resulting in a Green Tag-certified product that can help qualify for LEED green building credits. This HPD covers EchoPanel in all available colors.

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 1 of 1 Materials

Explanation(s) provided
for Residuals/Impurities?

- Yes
- No

Are All Substances Above the Threshold Indicated:

Characterized Yes No

Percent Weight and Role Provided?

Screened Yes No

Using Priority Hazard Lists with Results Disclosed?

Identified Yes No

Name and Identifier Provided?

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

ECHOPANEL [POLYETHYLENE TEREPHTHALATE (PET) (POLYETHYLENE TEREPHTHALATE (PET)) **LT-UNK** 7H-BENZO[E]PERIMIDINE-4-CARBOXAMIDE, N-(9,10-DIHYDRO-9,10-DIOXO-1-ANTHRACENYL)-7-OXO- **LT-UNK** BISMUTH VANADIUM TETRAOXIDE **LT-P1** | MUL **C.I. PIGMENT BLUE 15** **BM-3** ULTRAMARINE (PIGMENT) **LT-UNK** 5,12-DIHYDROQUINO(2,3-B)ACRIDINE-7,14-DIONE **LT-UNK** CARBON BLACK **LT-1** | CAN 1,4-DIHYDROXYANTHRAQUINONE **LT-UNK** PERYLENE RED **NoGS** TITANIUM DIOXIDE (TITANIUM DIOXIDE) **LT-1** | CAN | END]

Number of Greenscreen BM-4/BM3 contents ... 1

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

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

This Health Product Declaration (HPD) was completed in accordance with the HPD Standard version 2.1, and discloses hazards associated with all substances present at or above 100 parts per million (ppm), along with the role and percent by weight in the finished product. Therefore, this HPD qualifies for the LEED v4 MR credit Building Product Disclosure and Optimization: Material Ingredient Reporting (Option 1). This HPD covers EchoPanel in all available colors. Not every pigment substance listed will be present in every color. Supplier confirms that EchoPanel contains no ILFI Red List Chemicals.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

CERTIFICATIONS AND COMPLIANCE *See Section 3 for additional listings.*

VOC emissions: CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom & Office scenario

Multi-attribute: GreenTag 3.1 - Gold - GreenRate Level A

LCA: ISO 14040:2006 Environmental management -- Life cycle assessment

Recycled content: TE Global Recycle Standard - V2.1

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: 2018-05-22

PUBLISHED DATE: 2018-06-06

EXPIRY DATE: 2021-05-22



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

ECHOPANEL

%: 100.0000

HPD URL:

MATERIAL THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: No residuals or impurities are known or expected to be present at or above the Inventory Threshold indicated for the finished product that would trigger a GS score of BM-1, LT-1, LT-P1 or NoGS based on supplier statements, supplier SDS, and as predicted by process chemistry (Pharos CML).

OTHER MATERIAL NOTES: Specific guidelines are being created by the HPD Collaborative to address known issues related to transparency and disclosure for several materials ("Special Conditions"), including Plastics/Polymers, and Recycled Content-Mixtures, such as the Post-Consumer PET used in this product (recycled colored PET; recycled white PET). This HPD will be updated as appropriate when these guidelines become available.

POLYETHYLENE TEREPHTHALATE (PET) (POLYETHYLENE TEREPHTHALATE (PET))

ID: 25038-59-9

%: 97.2000 - 99.5000

GS: LT-UNK

RC: PostC

NANO: No

ROLE: Substrate: Provides structure and rigidity

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: EchoPanel is made with up to 60 percent post-consumer recycled PET from a variety of sources (e.g. PET bottles). Certificate of Compliance for recycled fibres, as inspected and assessed according to the Global Recycle Standard (GRS) Version 2.1 (Control Union Certifications; 12 August 2013).

7H-BENZO[E]PERIMIDINE-4-CARBOXAMIDE, N-(9,10-DIHYDRO-9,10-DIOXO-1-ANTHRACENYL)-7-OXO-

ID: 4216-01-7

%: 0.0000 - 0.2000

GS: LT-UNK

RC: None

NANO: No

ROLE: Pigment

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Synonym: C.I. Pigment Yellow 108. Substance not present in all colors; contact manufacturer if more information is required.

BISMUTH VANADIUM TETRAOXIDE

ID: 14059-33-7

%: 0.0000 - 2.8000

GS: LT-P1

RC: None

NANO: No

ROLE: Pigment

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters

SUBSTANCE NOTES: **Synonym: Pigment Yellow 184.** Hazards not expected to apply once substance is bound in the matrix of the finished product. Substance not present in all colors; contact manufacturer if more information is required.

C.I. PIGMENT BLUE 15

ID: **147-14-8**

%: **0.0000 - 0.4000** GS: **BM-3** RC: **None** NANO: **No** ROLE: **Pigment**

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

SUBSTANCE NOTES: **Identified on the US EPA Safer Chemical Ingredient List.** Substance not present in all colors; contact manufacturer for more information.

ULTRAMARINE (PIGMENT)

ID: **57455-37-5**

%: **0.0000 - 0.1000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Pigment**

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

SUBSTANCE NOTES: **Synonym: Pigment Blue 29.** Substance not present in all colors; contact manufacturer if more information is required.

5,12-DIHYDROQUINO(2,3-B)ACRIDINE-7,14-DIONE

ID: **1047-16-1**

%: **0.0000 - 0.9000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Pigment**

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

SUBSTANCE NOTES: **Synonym: C.I. Pigment Violet 19.** Substance not present in all colors; contact manufacturer if more information is required.

CARBON BLACK

ID: **1333-86-4**

%: **0.0000 - 0.7000** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Pigment**

HAZARDS:	AGENCY(IES) WITH 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

CANCER

MAK

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

SUBSTANCE NOTES: Hazards not expected to apply once substance is bound in the matrix of the finished product. Substance not present in all colors; contact manufacturer if more information is required. Carbon Black is one of several compounds with warnings restricted to unbound/respirable forms. Specific guidelines are being created to address known issues related to transparency and disclosure for several materials ("Special Conditions"), including those with Form-Specific Hazards such as Carbon Black. This HPD will be updated as appropriate when these guidelines become available.

1,4-DIHYDROXYANTHRAQUINONE

ID: 81-64-1

#: **0.0000 - 1.6000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Pigment**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Synonym: Solvent Orange 86. Substance not present in all colors; contact manufacturer if more information is required.

PERYLENE RED

ID: 123174-58-3

#: **0.0000 - 2.5000** GS: **NoGS** RC: **None** NANO: **No** ROLE: **Pigment**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Substance not present in all colors; contact manufacturer if more information is required.

TITANIUM DIOXIDE (TITANIUM DIOXIDE)

ID: 13463-67-7

#: **0.0000 - 1.7000** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Pigment**

HAZARDS:

AGENCY(IES) WITH 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

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List. Hazards not expected to apply once substance is bound in the matrix of the finished product. Substance not present in all colors; contact manufacturer if more information is required. Form-specific hazards: airborne particles of respirable size – occupational setting. Specific guidelines are being created to address known issues related to transparency and disclosure for several materials ("Special Conditions"), including those with Form-Specific Hazards such as Titanium Dioxide. This HPD will be updated as appropriate when these guidelines become available. The Material Health Harmonization Task Group convened by the USGBC states that pigmentary titanium dioxide was "determined to be Benchmark 2 using the full GS (GreenScreen) method" (<http://ow.ly/Z5ken>).

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 V1.2 (Section 01350/CHPS) - Classroom & Office scenario

CERTIFYING PARTY: **Third Party**
ISSUE DATE: **2017-09-20** EXPIRY DATE:
APPLICABLE FACILITIES: **Woven Image, Brookvale NSW, Australia**
CERTIFIER OR LAB: **Berkeley Analytical**
CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **Compliance Tested. VOC Emission Test Certificate. Certificate No: 170920-02. Reference Standard: California Department of Public Health CDPH/EHLB/Standard Method Version 1.2, 2017 (Emission testing method for CA Specification 01350). The results of the test are presented in Berkeley Analytical report, 986-001-01A-Sep2017. Results - School Classroom: Compliant; Private Office: Compliant.**

MULTI-ATTRIBUTE

GreenTag 3.1 - Gold - GreenRate Level A

CERTIFYING PARTY: **Third Party**
ISSUE DATE: **2015-04-20** EXPIRY DATE: **2019-04-20** CERTIFIER OR LAB: **Global GreenTag Pty Ltd**
APPLICABLE FACILITIES: **Woven Image, NSW AUSTRALIA**
CERTIFICATE URL:
<http://www.ecospecifier.com.au/products/product-summary/?prodid=28169>

CERTIFICATION AND COMPLIANCE NOTES: **GreenTag LCARate Gold GreenRate Level A Certified. Rigid 60% recycled PET paneling products suitable for acoustic and privacy screen applications in commercial workstation, partitioning, wall and ceiling systems. Available thicknesses: 7mm (plain and printed), 12mm (plain and printed) and 24mm (plain only). The products have achieved GreenRate Level A for GBCA Design and As Built v1 and Interiors v1 Sustainable Products third party certification. The products are GreenTag LCARate Gold Certified achieving the GreenTag EcoPoint score of 0.44 (12mm), 0.47 (7mm) and 0.39 (24mm).**

LCA

ISO 14040:2006 Environmental management -- Life cycle assessment

CERTIFYING PARTY: **Self-declared**
ISSUE DATE: **2014-06-27** EXPIRY DATE:
APPLICABLE FACILITIES: **Woven Image, NSW, AUSTRALIA**
CERTIFIER OR LAB: **Edge Environment**
CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **The study assessed environmental impacts over a 6-stage cycle from cradle to grave. This study considers the life-cycle environmental impacts of the 7mm, 12mm and 24mm thick EchoPanel® office partition or wall covering (plain and printed), the 1.9mm EchoPanel Mura®, and the 10mm and 24mm Phoenix office partitioning core fill board. The study followed the ISO and Australian BPIC building products level playing field guidelines for life cycle assessments, including the BPIC EcoPoints system to assess overall environmental impacts, including global warming, water use and non-renewable energy resource depletion. The Carbon Footprint listed above represents the average of the four products currently available from Kirei USA (EchoPanel 24mm board: 12.1 kgCO₂-eq; EchoPanel 12mm board: 9.6-10.0 kgCO₂-eq; EchoPanel 7mm board: 5.6-5.9 kgCO₂-eq; EchoPanel Mura: 1.5 kgCO₂-eq).**

RECYCLED CONTENT

TE Global Recycle Standard - V2.1

CERTIFYING PARTY: **Self-declared**
ISSUE DATE: **2013-** EXPIRY DATE:
CERTIFIER OR LAB: **Control Union**

AUSTRALIA

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: Polyethylene terephthalate (PET), Post-consumer recycled content (Fibres).

OTHER**Global GreenTag Product Health Declaration (PhD)**

CERTIFYING PARTY: Third Party

ISSUE DATE: 2018-

EXPIRY DATE: 2021-

CERTIFIER OR LAB: Global

APPLICABLE FACILITIES: Ingleburn NSW, Villawood NSW

05-16

04-20

GreenTag International

AUSTRALIACERTIFICATE URL: http://www.globalgreentag.com/wp-content/uploads/2018/05/180524_WOV_Echopanel-and-Mura-Plain-PHD_v4.pdf

CERTIFICATION AND COMPLIANCE NOTES: Global GreenTag Health Rate: GOLD. Scope of Range: EchoPanel® and Mura™ non printed. Life Cycle Assessed: Raw materials, manufacturing, in-use. Licence Number: WOV-002-v1-2018. Standard: GGT International v4.0. Percentage Assessed: 100%. Declaration Limit: 100 ppm. GreenTag Banned List Compliant. Product Meets Optimization requirements (No Grey or Red Light category ingredients). The Global GreenTag International (GGT) Product Health Declaration (PhD) is intended to indicate: Chemical hazards of both finished product and unique ingredients to a minimum level of 100ppm for each homogeneous ingredient throughout the product life cycle (including any VOC or other gaseous emissions); An assessment of exposure or risk associated with ingredient handling, product use, and disposal in relation to established mitigation and management processes.

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.

ECHOSKY ALUMINUM RACK SYSTEMHPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Required for installation of EchoSky racked baffle systems. Various sizes available according to the specification. If more information is required, please contact manufacturer or see relevant Spec Sheets at <http://kireiusa.com/downloads-2/>

VELCRO STRIPSHPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Required for installation of EchoStar Acoustic Systems. 1-inch wide velcro strips to be attached to top of EchoPanel infield where necessary. If more information is required, please contact manufacturer or see relevant Spec Sheets at <http://kireiusa.com/downloads-2/>

ECHOSCREEN ALUMINUM CHANNELHPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Used for installation of EchoScreen dividers. If more information is required, please contact manufacturer or see relevant Spec Sheets at <http://kireiusa.com/downloads-2/>

MURA TILES CLIPSHPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Plastic clip used during installation of Mura Tiles. If more information is required, please contact manufacturer or see relevant Spec Sheets at <http://kireiusa.com/downloads-2/>

PIVOT JOINERS

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

ABS plastic Pivot Joiners are used to connect EchoPanel Partitions. Pivot joiners fold 360-degrees for a variety of standing configurations, and enable pack-flat storage of complete systems when not in use. If more information is required, please contact manufacturer or see relevant Spec Sheets at <http://kireiusa.com/downloads-2/>

LOW-VOC CONSTRUCTION ADHESIVE

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Used for installation of Mura Tiles and other EchoPanel products, depending on specification. If more information is required, please contact manufacturer or see relevant Spec Sheets at <http://kireiusa.com/downloads-2/>

INSTALLATION HARDWARE

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Required for installation of various EchoPanel Systems components. If more information is required, please contact manufacturer or see relevant Spec Sheets at <http://kireiusa.com/downloads-2/>

Section 5: General Notes



MANUFACTURER INFORMATION

MANUFACTURER: **Kirei USA**
 ADDRESS: **412 N. Cedros Ave.**
San Diego CA 92075, USA
 WEBSITE: **www.KireiUSA.com**

CONTACT NAME: **Leigh Anne Magnatta**
 TITLE: **VP Operations**
 PHONE: **619-236-9924**
 EMAIL: **leighanne@kireiusa.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	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.