

CLASSIFICATION: 09 65 00 Resilient Flooring

PRODUCT DESCRIPTION: Harbinger PVC Rigid with the increased stability of the Stone Product Composite (SPC) is perfect for areas in direct sunlight or humidity. The core of this product is composed of stone dust which procures superior stability and allows for installation over glycol or electric radiant flooring. The floating installation with I4F Drop Lock system is easy, quick and does not require adhesive. ERVP is made without the use of plasticizers. Harbinger provides a twenty year commercial warranty, and limited lifetime residential warranty on its regular (first quality) luxury vinyl tiles.

Section 1: Summary

Basic Method / Product 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

- 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.

Screened Yes Ex/SC Yes No

All substances screened using Priority Hazard Lists with results disclosed.

Identified Yes Ex/SC Yes No

All substances disclosed by Name (Specific or Generic) and Identifier.

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

HARBINGER ERVP RIGID WITH IXPE BACKING (5.5MM) [**CALCIUM CARBONATE** **BM-3** **POLYVINYL CHLORIDE (PVC)** **LT-P1** | RES **POLYETHYLENE** **LT-UNK** **BIS(2-ETHYLHEXYL) TEREPHTHALATE** **BM-3** **DIOCTYL TEREPHTHALATE (DOTP)** **NoGS** **METHYL METHACRYLATE, COPOLYMER WITH BUTYL ACRYLATE** **LT-UNK** **STEARIC ACID** **LT-P1** | **END CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE** **LT-UNK** **ZINC STEARATE** **LT-P1** **SODIUM HYDROXIDE** **LT-P1** | **SKI** | **PHY GLYCERYL MONOSTEARATE** **LT-UNK**]

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

Contents highest concern GreenScreen

Benchmark or List translator Score ... LT-P1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Bay Resource Group worked with a HPDC Approved Preparer to confirm that all residuals and impurities were considered under the preparation of this HPD. This was accomplished by obtaining full formulation disclosure, including residuals and impurities, down to the 1,000 ppm threshold.

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: RFCI FloorScore

VOC emissions: NSF-332 Sustainable Resilient Floor 2007 DRAFT trial - Platinum

Other: Environmental Product Declaration (EPD) by SCS

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

- Yes
 No

PREPARER: ToxServices LLC

VERIFIER: SCS Global Services

VERIFICATION #: qGE-5980

SCREENING DATE: 2019-04-01

PUBLISHED DATE: 2019-04-01

EXPIRY DATE: 2022-04-01



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

HARBINGER ERVP RIGID WITH IXPE BACKING (5.5MM)

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Bay Resource Group worked with a HPDC Approved Preparer to confirm that all residuals and impurities were considered under the preparation of this HPD. This was accomplished by obtaining full formulation disclosure, including residuals and impurities, down to the 1,000 ppm threshold.

OTHER PRODUCT NOTES:

CALCIUM CARBONATE

ID: 471-34-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-04-01

#: 57.3600 - 57.4600

GS: BM-3

RC: None

NANO: No

ROLE: Filler Component

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer. The GreenScreen® Benchmark assessment score of BM-3 was provided through the HPD 2.1 Builder Tool.

POLYVINYL CHLORIDE (PVC)

ID: 9002-86-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-04-01

#: 25.5500 - 25.5500

GS: LT-P1

RC: None

NANO: No

ROLE: PVC Resin, Wear Layer and Film Component

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

RESPIRATORY

AOEC - Asthmagen

Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

POLYETHYLENE

ID: 9002-88-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-04-01

#: 9.4900 - 9.4900

GS: LT-UNK

RC: None

NANO: No

ROLE: IXPE Component

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

BIS(2-ETHYLHEXYL) TEREPHTHALATE

ID: 6422-86-2

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

HAZARD SCREENING DATE: **2019-04-01**

#: **1.9900 - 1.9900**

GS: **BM-3**

RC: **None**

NANO: **No**

ROLE: **DOTP Component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer. The GreenScreen® Benchmark assessment score of BM-3 was provided through the HPD 2.1 Builder Tool.

DIOCTYL TEREPHTHALATE (DOTP)

ID: 4654-26-6

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

HAZARD SCREENING DATE: **2019-04-01**

#: **1.8100 - 1.8100**

GS: **NoGS**

RC: **None**

NANO: **No**

ROLE: **PVC Wear Layer Component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

METHYL METHACRYLATE, COPOLYMER WITH BUTYL ACRYLATE

ID: 25852-37-3

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

HAZARD SCREENING DATE: **2019-04-01**

#: **0.9000 - 0.9000**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Additive Component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

STEARIC ACID

ID: 57-11-4

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

HAZARD SCREENING DATE: **2019-04-01**

#: **0.8900 - 0.8900**

GS: **LT-P1**

RC: **None**

NANO: **No**

ROLE: **Stabilizer Component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE

ID: 65997-17-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-04-01**

#: **0.5100 - 0.5100** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Fiberglass Component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

ZINC STEARATE

ID: 557-05-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-04-01**

#: **0.4600 - 0.4600** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Stabilizer Component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
No hazards found		

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

SODIUM HYDROXIDE

ID: 1310-73-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-04-01**

#: **0.1200 - 0.1200** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Stabilizer Component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKIN IRRITATION	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage
PHYSICAL HAZARD (REACTIVE)	Korea - GHS	H290 - May be corrosive to metals

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

GLYCERYL MONOSTEARATE

ID: 123-94-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-04-01**

#: **0.1000 - 0.2000**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **IXPE Component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: **This substance was properly screened by the HPD Approved Preparer.**

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

RFCI FloorScore

CERTIFYING PARTY: **Third Party**

APPLICABLE FACILITIES: **All Facilities**

CERTIFICATE URL:

https://www.scs-certified.com/products/cert_pdfs/BayResource_2018_SCS-FS-03863_s.pdf

ISSUE DATE: EXPIRY DATE: CERTIFIER OR LAB:

2018-12-01 2019-11-30 SCS Global

CERTIFICATION AND COMPLIANCE NOTES: Indoor Air Quality Certified to SCS-EC10.3-2014 v4.0 Conforms to the CDPH/EHLB Standard Method v1.2-2017 (California Section 01350), effective April 1, 2017, for the school classroom and private office parameters when modeled as Flooring.

VOC EMISSIONS

NSF-332 Sustainable Resilient Floor 2007 DRAFT trial - Platinum

CERTIFYING PARTY: **Third Party**

APPLICABLE FACILITIES: **All Facilities**

CERTIFICATE URL:

https://www.scs-certified.com/products/cert_pdfs/BayResourceGroup_2018_SCS-RF-05188_s.pdf

ISSUE DATE: EXPIRY DATE: CERTIFIER OR LAB:

2018-11-19 2021-11-30 SCS Global

CERTIFICATION AND COMPLIANCE NOTES: Conforms to the NSF/ANSI 332-2015 Sustainability Assessment for Resilient Floor Coverings.

OTHER

Environmental Product Declaration (EPD) by SCS

CERTIFYING PARTY: **Third Party**

APPLICABLE FACILITIES: **All Facilities**

CERTIFICATE URL:

https://www.scs-certified.com/products/cert_pdfs/SCS-EPD-04951_BayResourceGroup_041618.pdf

ISSUE DATE: 2018-04-06 EXPIRY DATE: 2023-04-15 CERTIFIER OR LAB: SCS Global

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.

No accessories are required for this product.

Section 5: General Notes

Use of Special Condition - No CAS# Available: The Bay Resource Group models, which are covered under this

current HPD, contain an additive chemical in which a CAS# was not able to be determined for. The component "PVC Wear Layer" contains an additive ingredient identified by the manufacturer as an "Environmental Stabilizer" that is present in the final product formulation at a maximum of 0.16% (1,600 ppm). The HPDC Approved Preparer worked with the supplier of the PVC Wear Layer and it was determined that a CAS# is not available for the environmental stabilizer additive. Therefore, the HPDC Approved Preparer has concluded that the Safety Data Sheet (SDS) published on March 13, 2015 for the PVC Wear Layer, that contains the environmental stabilizer ingredient, is compliant with the Commission Regulation (EU) No 2015/830 (EU CLP) and that no GHS Category 1 hazards are disclosed on the SDS., therefore, no HPD target hazards would be flagged for this ingredient.

MANUFACTURER INFORMATION

MANUFACTURER: **Bay Resource Group**
ADDRESS: **Unit #173 - 11280 Twigg Place**
Richmond British Columbia V6V 0A6, Canada
WEBSITE: **www.harbingerfloors.com**

CONTACT NAME: **Bay Resource Group Customer Service**
TITLE: **Customer Service**
PHONE: **604-324-8819 or North America Toll Free 1-866-646-6519**
EMAIL: **media@bayresourcegroup.ca**

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

