

CLASSIFICATION: 09 65 19

PRODUCT DESCRIPTION: barenaked PVC Free Floors™ CS Collection™ resilient sheet is a new generation of natural, responsible and durable floor design. Be confident in total accountability with a design containing no PVC, phthalates, polyurethane or halogens. Its unique homogeneous construction eliminates any requirement for additional polishes and finishes while maintaining exceptional durability and performance. PVC-Free and plasticizer-free composition for heavy commercial use. Excellent maintenance properties make it ideal for many healthcare projects.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

<p>Inventory Reporting Format</p> <p><input type="radio"/> Nested Materials Method</p> <p><input checked="" type="radio"/> Basic Method</p> <p>Threshold Disclosed Per</p> <p><input type="radio"/> Material</p> <p><input checked="" type="radio"/> Product</p>	<p>Threshold level</p> <p><input type="radio"/> 100 ppm</p> <p><input checked="" type="radio"/> 1,000 ppm</p> <p><input type="radio"/> Per GHS SDS</p> <p><input type="radio"/> Per OSHA MSDS</p> <p><input type="radio"/> Other</p>	<p>Residuals/Impurities</p> <p><input checked="" type="radio"/> Considered</p> <p><input type="radio"/> Partially Considered</p> <p><input type="radio"/> Not Considered</p> <p>Explanation(s) provided for Residuals/Impurities?</p> <p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>	<p><i>Are All Substances Above the Threshold Indicated:</i></p> <p>Characterized <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p><i>Percent Weight and Role Provided?</i></p> <p>Screened <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p><i>Using Priority Hazard Lists with Results Disclosed?</i></p> <p>Identified <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p><i>Name and Identifier Provided?</i></p>
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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

BARENAKED PVC FREE FLOORS CS COLLECTION | CALCIUM CARBONATE BM-3 THERMOPLASTIC ELASTOMER NoGS ETHYLENE VINYL ACETATE POLYMER (EVA) LT-UNK ETHYLENE/METHACRYLIC ACID COPOLYMER, ZINC SALT (EMAA-XZN) LT-UNK ACRYLIC POLYMERS NoGS TITANIUM DIOXIDE LT-1 | CAN | END CARBON BLACK LT-1 | CAN IRON HYDROXIDE (FE(OH)3) LT-UNK BUTANAMIDE, 2,2'-[1,2-ETHANEDIYLBIS(OXY- 2,1-PHENYLENEAZO)]BIS[N-(2,3-DIHYDRO-2-OXO-1H-BENZIMIDAZOL -5-YL)-3-OXO- LT-UNK C.I. PIGMENT BLUE 15 BM-3 2-NAPHTHALENECARBOXAMIDE, N-(2,3-DIHYDRO-2-OXO-1H-BENZIMIDAZOL- 5-YL)-3-HYDROXY-4-[[2-METHOXY-5-METHYL -4-[(METHYLAMINO)SULFONYL]PHENYL]AZO]- LT-P1 IRON OXIDE BLACK LT-UNK FERRIC OXIDE YELLOW LT-UNK FERRIC OXIDE BM-2 | CAN]

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:

This HPD was created with Basic Inventory. All Substances over 1000 ppm or 100 ppm of the Product are reported. The component ID or CAS# were used to identify associated hazards of components above the threshold limit.

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
Other: REACH European Union Regulation (EC) 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared

VERIFIER:
VERIFICATION #:

SCREENING DATE: 2018-12-12

PUBLISHED DATE: 2018-12-12

EXPIRY DATE: 2021-12-12



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

BARENAKED PVC FREE FLOORS CS COLLECTION

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were considered for all raw materials and those that show up above the stated threshold were listed.

OTHER PRODUCT NOTES: Some variation may occur inside given percentages. Biggest variation is with color pigments as their use varies in different colored products. Large collection is consisting of many different colored products.

CALCIUM CARBONATE

ID: 471-34-1

%: 58.0000 - 62.0000	GS: BM-3	RC: None	NANO: No	ROLE: Filler
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Calcium carbonate is a natural mineral. Does have also synonyms as limestone. No warnings found on HPD Priority lists

THERMOPLASTIC ELASTOMER

ID: 308079-71-2

%: 16.0000 - 18.0000	GS: NoGS	RC: None	NANO: No	ROLE: Binder
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Thermoplastic elastomer as a part of the binder system of product.

ETHYLENE VINYL ACETATE POLYMER (EVA)

ID: 24937-78-8

%: 11.0000 - 13.0000	GS: LT-UNK	RC: None	NANO: No	ROLE: Binder
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Polyethylene based polyolefin copolymer is used as a soft binder. By using naturally soft polymer no plasticizer is needed.

ETHYLENE/METHACRYLIC ACID COPOLYMER, ZINC SALT (EMAA-XZN)

ID: 28516-43-0

%: **8.0000 - 10.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Binder**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: This polymer structure is more known as ionomer. Small amounts of metal (Zn, Na) salt is used for neutralizing. It is used as a surface reinforcement and also as a part of binder system of the product. Zinc and sodium are tied strongly in the structure and amount of these metals is under reported treshold level.

ACRYLIC POLYMERS

ID: 903501-20-2

%: **0.5000 - 1.0000** GS: **NoGS** RC: **None** NANO: **No** ROLE: **Fulling cured surface treatment**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Fully cured acrylic polymers. UV cured in highly controlled conditions. Amount of possible residuals will be low because very small amount of material used with highly controlled curing process.

TITANIUM DIOXIDE

ID: 13463-67-7

%: **0.0000 - 2.0000** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Color 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
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

SUBSTANCE NOTES: This material is most common white colorant used everywhere white color is needed. Amount used varies according color of the product, and some colors may not have this at all.

CARBON BLACK

ID: 1333-86-4

%: **0.0000 - 0.5000** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Color Pigment**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
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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: C.I. Pigment Black 7. This material is widely used most common black colorant. Amount used varies according color of the product. Therefore some colors do not have this at all. As this is very effective color pigments it is always used at very small quantities.

IRON HYDROXIDE (FE(OH)3)

ID: 1309-33-7

#: 0.0000 - 2.0000 GS: LT-UNK RC: None NANO: No ROLE: Color Pigment

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: This is presenting group of iron hydroxide pigments. Amount used varies according color of the product. Therefore some colors may not have this at all.

BUTANAMIDE, 2,2'-[1,2-ETHANEDIYLBIS(OXY- 2,1-PHENYLENEAZO)]BIS[N-(2,3-DIHYDRO-2-OXO-1H-BENZIMIDAZOL -5-YL)-3-OXO-

ID: 77804-81-0

#: 0.0000 - 0.5000 GS: LT-UNK RC: None NANO: No ROLE: Color Pigment

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: C.I. Pigment Yellow 180. Used very small amounts where bright yellow colors are needed.

C.I. PIGMENT BLUE 15

ID: 147-14-8

#: 0.0000 - 0.5000 GS: BM-3 RC: None NANO: No ROLE: Color Pigment

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: C.I. Pigment Blue 15:1. Used very small quantities in colors where cyan blue colors are needed.

2-NAPHTHALENECARBOXAMIDE, N-(2,3-DIHYDRO-2-OXO-1H-BENZIMIDAZOL- 5-YL)-3-HYDROXY-4-[[2-METHOXY-5-METHYL -4-[(METHYLAMINO)SULFONYL]PHENYL]AZO]-

ID: 51920-12-8

#: 0.0000 - 0.5000 GS: LT-P1 RC: None NANO: No ROLE: Color Pigment

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Pigment Red. Used small amount where bright red color is needed.

IRON OXIDE BLACK

ID: 12227-89-3

#: 0.0000 - 2.0000 GS: LT-UNK RC: None NANO: No ROLE: Color Pigment

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Pigment black. Used in where black color is needed.

FERRIC OXIDE YELLOW

ID: 51274-00-1

#: 0.0000 - 1.0000 GS: LT-UNK RC: None NANO: No ROLE: Color Pigment

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: C.I. Pigment Yellow 42

FERRIC OXIDE

ID: 1309-37-1

#: 0.0000 - 1.0000 GS: BM-2 RC: None NANO: No ROLE: Color pigment

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

MAK

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

SUBSTANCE NOTES: C.I. Pigment Red 101. Iron oxide pigment.

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**

ISSUE DATE: **2018-**

EXPIRY DATE:

CERTIFIER OR LAB: **SCS**

APPLICABLE FACILITIES: **Ikaalinen, Finland**

12-01

2019-11-30

Global Services

CERTIFICATE URL:

https://www.scs-certified.com/products/cert_pdfs/Karelia-UpofloorOy_2018_SCS-FS-02256_s.pdf

CERTIFICATION AND COMPLIANCE NOTES: **SCS-FS-02256**

OTHER

REACH European Union Regulation (EC) 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals

CERTIFYING PARTY: **Third Party**

ISSUE DATE: **2016-**

EXPIRY DATE:

CERTIFIER OR LAB: **SGS**

APPLICABLE FACILITIES: **All**

08-31

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **REACH Certified - Tested for Substances of Very High Concern.**

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.

TUF STIK 9000 - TRANSITIONAL PRESSURE SENSITIVE (TPS) ADHESIVE

HPD URL: https://www.shannonspecialtyfloors.com/wp-content/uploads/2016/05/Product-Data-Sheet_Tuf-Stik-9000-Adhesive_REV-Jan-2016.pdf

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

SUITABLE SUBSTRATES: Properly prepared double layer wood subfloors with a minimum 1 inch total thickness using APA or other suitable ¼ inch or thicker underlayment grade plywood; terrazzo; ceramic; existing well adhered non-cushion vinyl tile and sheet goods; radiant heated subfloors where surface temperatures do not exceed 85° F (29.40° C); and above, on, or below grade concrete in the absence of hydrostatic pressure, excessive moisture or surface alkalinity. The pH level of concrete must be between 8.0 and 10.0 (do not install if over 10.0 pH). Moisture level of concrete must be at or below 90.0% Relative Humidity (ASTM F-2170) and or 8.0 lbs./1000 sq. ft./24 hours Moisture Vapor Emissions Rate (ASTM F-1869). Wood substrates must be checked with a calibrated pin moisture meter. Readings between the subfloor / structural wood and underlayment panels must be within 2% and be less than 14% moisture content. If test results exceed the adhesive limitations, the installation should not proceed until the problem has been corrected. **SUBSTRATE PREPARATION:** All substrates must be sound, clean, flat and smooth, dry and free of dust, dirt, wax, grease and oil, marker and paint, and any other deleterious contaminants that may stain the flooring or interfere with a good bond. Concrete must be fully cured and free of hydrostatic pressure or excessive moisture or out of spec surface alkalinity conditions and shall be free of incompatible curing compounds or sealers, fire retardant chemicals, release agents and other concrete treatments or additives that may prevent a good bond. Level high spots and fill low spots, crack or depressions using a high quality 3,500 psi cement or calcium aluminate smoothing and patching underlayment according to the instruction of the underlayment manufacturer. Do not fill expansion joints or other moving joints. Always perform a bond test prior to installation. **DO NOT** install over chemically abated or chemically cleaned substrates. It is the sole

responsibility of the installer/contractor to ensure the substrate is suitable and is properly prepared prior to installation.

TUF STIK SPX - MULTI-FUNCTIONAL ADHESIVE

HPD URL: https://www.shannonspecialtyfloors.com/wp-content/uploads/2018/08/TUF_STIK_SPX_Product_data_sheet_022016_Final.pdf

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

TUF STIK SPX™ features extremely low permeability ratings, withstands maximum moisture levels of 10 lbs. and 90% RH, provides sound deadening performance up to IIC 59 & STC 61 sound ratings with a Delta IIC of 19, imparts crack isolation protection up to 1/8", enhances thermal insulating properties, and is unaffected by concrete slab alkalinity. TUF STIK SPX™ has low odor, negligible VOC content, contains no hazardous chemicals as per OSHA Regulation CFR 1910.1200 and meets all federal, state, and local governmental indoor air quality regulations. This specially formulated adhesive provides early strength and quickly builds into a tenacious but elastic resilient bond as the adhesive cross-links. Plasticizer migration resistance allows installation of a broad variety of resilient floor products. TUF STIK SPX™ may be used over APA grade underlayment plywood, association grade particleboard, OSB, cork underlayment, existing well-bonded resilient flooring, terrazzo, cementitious and anhydrite screeds, concrete, and radiant heated subfloors where surface temperatures do not exceed 85° F (29.40° C). Install above, on, or below grade, in the absence of excessive moisture. While this adhesive is waterproof when cured, during installation and curing, the adhesive must be protected from excessive moisture. Moisture levels of concrete must be below 10 lbs. per 1000 sq. feet per 24 hours (according to ASTM F-1869 test method) and 90.0% RH (tested in accordance with ASTM F-2170).

Section 5: General Notes

All information with health warnings has been made using automated tool.



MANUFACTURER INFORMATION

MANUFACTURER: **Shannon Specialty Floors, Inc.**

ADDRESS: **1005 South 60th Street**

Milwaukee WI 53214, USA

WEBSITE: **www.shannonspecialtyfloors.com**

CONTACT NAME: **Tim Davis**

TITLE: **Technical Services Manager**

PHONE: **414-465-9729**

EMAIL: **timd@shannonspecialtyfloors.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.