

CLASSIFICATION: 09 68 16

PRODUCT DESCRIPTION: The problems that can arise when carpet is exposed to moisture are well documented: mold and mildew, odor, product deterioration and total installation failure. However, specifying and installing the right backing, such as EF Contract's TitanBac Plus, can effectively prevent typical moisture problems. TitanBac Plus also improves carpet performance by allowing it to be more vigorously cleaned to retain its aesthetic appeal for a longer period of time.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

☐ Nested Materials Method

☒ Basic Method

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
EF CONTRACT - TITANBAC® PLUS BROADLOOM	NYLON 6	LT-UNK
ALUMINUM HYDROXIDE	BM-2	RES STYRENE-BUTADIENE COPOLYMERS
LT-UNK	CALCIUM CARBONATE	LT-UNK
POLYPROPYLENE	LT-UNK	HEXANEDIOIC ACID, POLYMER WITH HEXAHYDRO-2H-AZEPIN-2-ONE AND 1,6-HEXANEDIAMINE
LT-UNK	POLY[IMINO(1,6-DIOXO-1,6- HEXANEDIYL)IMINO-1,6-HEXANEDIYL]	LT-UNK
UNK	SULFONIC ACIDS, C14-16-ALKANE HYDROXY AND C14-16-ALKENE, SODIUM SALTS	LT-UNK
CAPROLACTAM	LT-UNK	SKI EYE 2-PROPENOIC ACID, 2-METHYL-, POLYMER WITH ETHYL 2-PROPENOATE
LT-UNK	FATTY ACIDS, C16-18 AND C18-UNSATD., BRANCHED AND LINEAR, ETHOXYLATED	LT-UNK
QUARTZ	LT-1	CAN 1,3,5-TRIAZINE-2,4,6(1H,3H,5H)-TRIONE, 1,3,5-TRIS[[3,5-BIS(1,1-DIMETHYLETHYL)-4-HYDROXYPHENYL]METHYL]-
LT-UNK	13-DOCOSENAMIDE, N-OCTADECYL-, (Z)-	LT-UNK
1H-IMIDAZOLE-1-ETHANOL, 2-(HEPTADECENYL)-4,5-DIHYDRO-	LT-P1	MUL 2-(2-AMINOETHYLAMINO)ETHANOL
LT-1	RES SKI DEL MUL REP 2-PROPENOIC ACID, POLYMER WITH ETHENE, ZINC SALT	LT-UNK
9-OCTADECENAMIDE, N-(2-AMINOETHYL)-N-(2-HYDROXYETHYL)-, (9Z)-	NoGS	BENZENEPROPANOIC ACID, 3-(1,1-DIMETHYLETHYL)-4-HYDROXY-5-METHYL-, 1,2-ETHANEDIYLBIS(OXY-2,1-ETHANEDIYL) ESTER
LT-P1	BUTANEDIOIC ACID, SULFO-, 1,4-BIS(2-ETHYLHEXYL) ESTER, SODIUM SALT	LT-P1
MUL	DODECANEDIOIC ACID	LT-UNK
RES	FATTY ACIDS, C16-18	LT-UNK
FATTY ACIDS, MONTAN-WAX, 1-METHYL-1,3-PROPANEDIYL ESTERS	NoGS	MELAMINE
LT-P1	CAN END	OCTADECANOIC ACID, ZINC SALT
LT-P1	PETROLEUM RESINS	LT-1
CAN	PHENOL, 2,4-BIS(1,1-DIMETHYLETHYL)-, PHOSPHITE (3:1)	LT-UNK
PBT	PHOSPHOROUS TRICHLORIDE, REACTION PRODUCTS WITH 1,1'-BIPHENYL AND 2,4-BIS(1,1-METHYLETHYL)PHENOL	LT-UNK

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:

POLYETHYLENE **LT-UNK** SORBITAN, TRI-9-OCTADECENOATE,
POLY(OXY-1,2-ETHANEDIYL) DERIVS., (Z,Z,Z)- **LT-UNK** C.I. PIGMENT
YELLOW 119 **LT-UNK** TITANIUM DIOXIDE **LT-1** | CAN | END ANTHRA[2,1,9-
DEF:6,5,10-D'E'F'] DIISOQUINOLINE-1,3,8,10(2H,9H)-TETRONE, 2,9-
BIS(3,5-DIMETHYLPHENYL)- **LT-P1** C. I. PIGMENT BLUE 15 **BM-3** C.I.
PIGMENT BROWN 24 **LT-UNK** C.I. PIGMENT GREEN 7 **LT-UNK** CARBON
BLACK **LT-1** | CAN **DIIRON TRIOXIDE** **BM-2** | CAN **IRON OXIDE** **LT-UNK**
NICKEL, 5,5'-AZOBIS-2,4,6(1H,3H,5H)-PYRIMIDINETRIONE COMPLEXES
LT-1 | RES | CAN **DISTILLATES (PETROLEUM), HYDROTREATED MIDDLE**
LT-1 | CAN | MUL]

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: CRI Green Label Plus - Carpets
Multi-attribute: NSF/ANSI 140-2007e - Gold

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: 2019-07-11

PUBLISHED DATE: 2019-07-11

EXPIRY DATE: 2022-07-11



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 2.1.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-1-standard

EF CONTRACT - TITANBAC® PLUS BROADLOOM

PRODUCT THRESHOLD: 1000 ppm	RESIDUALS AND IMPURITIES CONSIDERED: Yes
RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were collected from all suppliers and those that fall above the stated threshold are included.	
OTHER PRODUCT NOTES:	

NYLON 6

ID: 25038-54-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-07-11		
%: 30.00 - 35.00	GS: LT-UNK	RC: None	NANO: No	ROLE: Fiber
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.				

ALUMINUM HYDROXIDE

ID: 21645-51-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-07-11		
%: 15.00 - 20.00	GS: BM-2	RC: None	NANO: No	ROLE: Backing
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced		
SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers. The GreenScreen Assessment was updated by Rosenblum Environmental on April 1, 2019 and can be found at https://www.pharosproject.net/uploads/files/gs/ba27ee568cc93348374020dad5936b84f383704b.pdf.				

STYRENE-BUTADIENE COPOLYMERS

ID: 9003-55-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-07-11		
%: 10.00 - 15.00	GS: LT-UNK	RC: None	NANO: No	ROLE: Backing

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists
SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.		

CALCIUM CARBONATE

ID: 1317-65-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-07-11		
%: 5.00 - 10.00	GS: LT-UNK	RC: None	NANO: No	ROLE: Backing
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers. The recycled content is produced by a proprietary re-milling process.				

POLYPROPYLENE

ID: 9003-07-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-07-11		
%: 5.00 - 10.00	GS: LT-UNK	RC: None	NANO: No	ROLE: Backing
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.				

HEXANEDIOIC ACID, POLYMER WITH HEXAHYDRO-2H-AZEPIN-2-ONE AND 1,6-HEXANEDIAMINE

ID: 24993-04-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-07-11		
%: 0.00 - 5.00	GS: LT-UNK	RC: None	NANO: No	ROLE: Additive
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.				

POLY[IMINO(1,6-DIOXO-1,6- HEXANEDIYL)IMINO-1,6-HEXANEDIYL]

ID: 32131-17-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-07-11		
#: 0.00 - 5.00	GS: LT-UNK	RC: None	NANO: No	ROLE: Fiber

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists
SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.		

SULFONIC ACIDS, C14-16-ALKANE HYDROXY AND C14-16-ALKENE, SODIUM SALTS

ID: 68439-57-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-07-11		
%: 0.00 - 1.00	GS: LT-UNK	RC: None	NANO: No	ROLE: Additive
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.				

CAPROLACTAM

ID: 105-60-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-07-11		
%: 0.00 - 1.00	GS: LT-UNK	RC: None	NANO: No	ROLE: Fiber
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation		
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation		
SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.				

2-PROPENOIC ACID, 2-METHYL-, POLYMER WITH ETHYL 2-PROPENOATE

ID: 25212-88-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-07-11		
%: 0.00 - 1.00	GS: LT-UNK	RC: None	NANO: No	ROLE: Backing
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.				

FATTY ACIDS, C16-18 AND C18-UNSATD., BRANCHED AND LINEAR, ETHOXYLATED

ID: 96349-73-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-07-11		
%: 0.00 - 1.00	GS: LT-UNK	RC: None	NANO: No	ROLE: Backing
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.				

QUARTZ

ID: **14808-60-7**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-07-11		
%: 0.00 - 1.00	GS: LT-1	RC: None	NANO: No	ROLE: Backing
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: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.				

1,3,5-TRIAZINE-2,4,6(1H,3H,5H)-TRIONE, 1,3,5-TRIS[[3,5-BIS(1,1-DIMETHYLETHYL) -4-HYDROXYPHENYL]METHYL]-

ID: **27676-62-6**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-07-11		
%: 0.00 - 1.00	GS: LT-UNK	RC: None	NANO: No	ROLE: Additive
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.				

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-07-11

%: 0.00 - 1.00

GS: LT-UNK

RC: None

NANO: No

ROLE: Additive

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.

1H-IMIDAZOLE-1-ETHANOL, 2-(HEPTADECENYL)-4,5-DIHYDRO-

ID: 27136-73-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-07-11

%: 0.00 - 1.00

GS: LT-P1

RC: None

NANO: No

ROLE: Additive

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.

2-(2-AMINOETHYLAMINO)ETHANOL

ID: 111-41-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-07-11

%: 0.00 - 1.00

GS: LT-1

RC: None

NANO: No

ROLE: Additive

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

SKIN IRRITATION

EU - GHS (H-Statements)

H314 - Causes severe skin burns and eye damage

SKIN SENSITIZE

EU - GHS (H-Statements)

H317 - May cause an allergic skin reaction

DEVELOPMENTAL

EU - GHS (H-Statements)

H360Df - May damage the unborn child. Suspected of damaging fertility

MULTIPLE

ChemSec - SIN List

CMR - Carcinogen, Mutagen &/or Reproductive Toxicant

REPRODUCTIVE

New Zealand - GHS

6.8A - Known or presumed human reproductive or developmental toxicants

REPRODUCTIVE

Japan - GHS

Toxic to reproduction - Category 1B

REPRODUCTIVE

EU - Annex VI CMRs

Reproductive Toxicity - Category 1B

DEVELOPMENTAL

Australia - GHS

H360Df - May damage the unborn child. Suspected of damaging fertility

SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.

2-PROPENOIC ACID, POLYMER WITH ETHENE, ZINC SALT

ID: 28208-80-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-07-11

%: 0.00 - 1.00
GS: LT-UNK
RC: None
NANO: No
ROLE: Additive

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.

9-OCTADECENAMIDE, N-(2-AMINOETHYL)-N-(2-HYDROXYETHYL)-, (9Z)-

ID: 93-81-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-07-11

%: 0.00 - 1.00
GS: NoGS
RC: None
NANO: No
ROLE: Additive

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.

BENZENEPROPANOIC ACID, 3-(1,1-DIMETHYLETHYL)-4-HYDROXY-5-METHYL-, 1,2-ETHANEDIYLBIS(OXY-2,1-ETHANEDIYL) ESTER

ID: 36443-68-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-07-11

%: 0.00 - 1.00
GS: LT-P1
RC: None
NANO: No
ROLE: Additive

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.

BUTANEDIOIC ACID, SULFO-, 1,4-BIS(2-ETHYLHEXYL) ESTER, SODIUM SALT

ID: 577-11-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-07-11

%: 0.00 - 1.00
GS: LT-P1
RC: None
NANO: No
ROLE: Additive

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.

DODECANEDIOIC ACID

ID: 693-23-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-07-11		
?: 0.00 - 1.00	GS: LT-UNK	RC: None	NANO: No	ROLE: Additive
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced		

SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.

FATTY ACIDS, C16-18

ID: 67701-03-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-07-11		
?: 0.00 - 1.00	GS: LT-UNK	RC: None	NANO: No	ROLE: Additive
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		

SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.

FATTY ACIDS, MONTAN-WAX, 1-METHYL-1,3-PROPANEDIYL ESTERS

ID: 73138-44-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-07-11		
?: 0.00 - 1.00	GS: NoGS	RC: None	NANO: No	ROLE: Additive
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		

SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.

MELAMINE

ID: 108-78-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-07-11		
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?: 0.00 - 1.00		GS: LT-P1	RC: None	NANO: No	ROLE: Additive
HAZARD TYPE		AGENCY AND LIST TITLES		WARNINGS	
CANCER		IARC		Group 2b - Possibly carcinogenic to humans	
ENDOCRINE		TEDX - Potential Endocrine Disruptors		Potential Endocrine Disruptor	
SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.					

OCTADECANOIC ACID, ZINC SALT				ID: 557-05-1
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-07-11		
%: 0.00 - 1.00	GS: LT-P1	RC: None	NANO: No	ROLE: Additive
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.				

PETROLEUM RESINS				ID: 64742-16-1
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-07-11		
%: 0.00 - 1.00	GS: LT-1	RC: None	NANO: No	ROLE: Additive
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
CANCER	CA EPA - Prop 65	Carcinogen		
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen		
CANCER	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources		
SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.				

PHENOL, 2,4-BIS(1,1-DIMETHYLETHYL)-, PHOSPHITE (3:1)				ID: 31570-04-4
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-07-11		
?: 0.00 - 1.00	GS: LT-UNK	RC: None	NANO: No	ROLE: Additive
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
PBT	EU - ESIS PBT	Under PBT evaluation		

SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.

PHOSPHOROUS TRICHLORIDE, REACTION PRODUCTS WITH 1,1'-BIPHENYL AND 2,4-BIS(1,1-METHYLETHYL)PHENOL

ID: 119345-01-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-07-11

%: 0.00 - 1.00
GS: LT-UNK
RC: None
NANO: No
ROLE: Additive

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.

POLYETHYLENE

ID: 9002-88-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-07-11

%: 0.00 - 1.00
GS: LT-UNK
RC: None
NANO: No
ROLE: Backing

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.

SORBITAN, TRI-9-OCTADECENOATE, POLY(OXY-1,2-ETHANEDIYL) DERIVS., (Z,Z,Z)-

ID: 9005-70-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-07-11

%: 0.00 - 1.00
GS: LT-UNK
RC: None
NANO: No
ROLE: Additive

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.

C.I. PIGMENT YELLOW 119

ID: 68187-51-9

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-07-11

%: 0.00 - 1.00
GS: LT-UNK
RC: None
NANO: No
ROLE: Colorant

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.

TITANIUM DIOXIDE

ID: 13463-67-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-07-11

?: 0.00 - 1.00 GS: LT-1 RC: None NANO: No ROLE: Colorant

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: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.

ANTHRA[2,1,9-DEF:6,5,10-D'E'F'] DIISOQUINOLINE-1,3,8,10(2H,9H)-TETRONE, 2,9-BIS(3,5-DIMETHYLPHENYL)-

ID: 4948-15-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-07-11

?: 0.00 - 1.00 GS: LT-P1 RC: None NANO: No ROLE: Colorant

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.

C. I. PIGMENT BLUE 15

ID: 147-14-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-07-11

?: 0.00 - 1.00 GS: BM-3 RC: None NANO: No ROLE: Colorant

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists
SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers. The expired GreenScreen Assessment was performed by ToxServices on Oct. 14, 2014 and can be found at https://www.pharosproject.net/uploads/files/gs/d78ea37fe855f5ed4bd31fe7da77da864eba60ac.pdf .		

C.I. PIGMENT BROWN 24

ID: 68186-90-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-07-11		
%: 0.00 - 1.00	GS: LT-UNK	RC: None	NANO: No	ROLE: Colorant
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.				

C.I. PIGMENT GREEN 7

ID: 1328-53-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-07-11		
%: 0.00 - 1.00	GS: LT-UNK	RC: None	NANO: No	ROLE: Colorant
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.				

CARBON BLACK

ID: 1333-86-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-07-11		
?: 0.00 - 1.00	GS: LT-1	RC: None	NANO: No	ROLE: Colorant
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		
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification		

SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.

DIIRON TRIOXIDE

ID: 1309-37-1

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

HAZARD SCREENING DATE: **2019-07-11**

?: **0.00 - 1.00**

GS: **BM-2**

RC: **None**

NANO: **No**

ROLE: **Colorant**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

CANCER

MAK

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

SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers. The expired GreenScreen Assessment was performed by SciVera on August 8, 2012, revised on September 10, 2013, and can be found at <https://www.pharosproject.net/uploads/files/gs/1405438632.pdf>.

IRON OXIDE

ID: 1332-37-2

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

HAZARD SCREENING DATE: **2019-07-11**

?: **0.00 - 1.00**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Colorant**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.

NICKEL, 5,5'-AZOBIS-2,4,6(1H,3H,5H)-PYRIMIDINETRIONE COMPLEXES

ID: 68511-62-6

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

HAZARD SCREENING DATE: **2019-07-11**

?: **0.00 - 1.00**

GS: **LT-1**

RC: **None**

NANO: **No**

ROLE: **Colorant**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

CANCER

IARC

Group 1 - Agent is Carcinogenic to humans

CANCER

CA EPA - Prop 65

Carcinogen

CANCER

US NIH - Report on Carcinogens

Known to be a human Carcinogen

SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.

DISTILLATES (PETROLEUM), HYDROTREATED MIDDLE

ID: 64742-46-7

%: **0.00 - 1.00**GS: **LT-1**RC: **None**NANO: **No**ROLE: **Backing**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

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 2 - Hazard to Waters

CANCER

EU - Annex VI CMRs

Carcinogen Category 1B - Presumed Carcinogen based on animal evidence

CANCER

Australia - GHS

H350 - May cause cancer

SUBSTANCE NOTES: A range is provided to protect the proprietary formulation information of both the manufacturing process and the suppliers.

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

CRI Green Label Plus - Carpets

CERTIFYING PARTY: Third Party

ISSUE DATE: 2013-02-26

EXPIRY DATE: 2020-03-31

CERTIFIER OR LAB: Carpet and Rug Institute

APPLICABLE FACILITIES: All
CERTIFICATE URL: <https://services.carpet-rug.org/api/GLPCertificate/2690>

CERTIFICATION AND COMPLIANCE NOTES: GLP2690

MULTI-ATTRIBUTE

NSF/ANSI 140-2007e - Gold

CERTIFYING PARTY: Third Party

ISSUE DATE: 2009-05-05

EXPIRY DATE: 2021-12-31

CERTIFIER OR LAB: NSF International for the Carpet & Rug Institute

APPLICABLE FACILITIES: All
CERTIFICATE URL: <http://info.nsf.org/Certified/Sustain/listings.asp>

CERTIFICATION AND COMPLIANCE NOTES: C0032167-101

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.

COMMERCIALON® PREMIUM CARPET ADHESIVE

HPD URL: No HPD Available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

It is recommended that the installation of carpet be accomplished through the use Commercialon® Premium Carpet Adhesive. Full instructions regarding installation of carpet are provided in the J+J Flooring Group's Carpet Installation handbook located at: <https://www.efcontractflooring.com/technical/adhesives/>

Section 5: General Notes



MANUFACTURER INFORMATION

MANUFACTURER: **Engineered Floors**
ADDRESS: **818 J&J Drive**
P.O. Box 1287
Dalton GA 30722, USA
WEBSITE: **https://www.efcontractflooring.com**

CONTACT NAME: **Russ Delozier**
TITLE: **Director of Sustainability**
PHONE: **7065292100**
EMAIL: **Russ.Delozier@engineeredfloors.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.