

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 J+J Flooring Group'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 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

J+J FLOORING - 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**
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

J+J FLOORING - 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
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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
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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
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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
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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
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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
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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
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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
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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 TYPE: **None found** AGENCY AND LIST TITLES: **None found** WARNINGS: **None found**
 %: **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.**

QUARTZID: **14808-60-7**

HAZARD TYPE: **CANCER** AGENCY AND LIST TITLES: **IARC** WARNINGS: **Group 1 - Agent is Carcinogenic to humans**
 %: **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 TYPE: **None found** AGENCY AND LIST TITLES: **None found** WARNINGS: **None found**
 %: **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.**

13-DOCOSENAMIDE, N-OCTADECYL-, (Z)-

ID: 10094-45-8

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: **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
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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
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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
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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
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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)-PYRIMIDINTRIONE 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**

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.jjflooringgroup.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: **www.jjflooringgroup.com**

CONTACT NAME: **Russ Delozier**

TITLE: **Director of Sustainability**

PHONE: **7065292100**

EMAIL: **Russ.Delozier@jjflooringgroup.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.