

CLASSIFICATION: 09 65 66

PRODUCT DESCRIPTION: Confetti flooring is manufactured in multiple colors and with random color percentages using both post-consumer recycled tires and post-industrial recycled trim from US Rubber Recycling's manufacturing stream. Each production batch used to produce Confetti contains a potpourri of U.S. Rubber's standard 19 colors. No two production runs are identical and cannot be matched to past Confetti flooring projects.

Section 1: Summary

Nested 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

Residuals/Impurities
Considered in 4 of 4 Materials

- 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
One or more substances not screened using Priority Hazard Lists with results disclosed and/ or one or more Special Condition did not follow guidance.

Identified Yes Ex/SC Yes No
One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.

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

POST CONSUMER RECYCLED CRUMB RUBBER [CARBON BLACK LT-1 | CAN LATEX, NATURAL RUBBER Not Screened STYRENE-BUTADIENE COPOLYMERS LT-UNK EXTRACTS (PETROLEUM), HEAVY PARAFFINIC DISTILLATE SOLVENT LT-1 | PBT | CAN | MUL OCTADECANOIC ACID, ZINC SALT LT-P1 SULFUR, ELEMENTAL LT-UNK | SKI 1,4-BENZENEDIAMINE, N-(1,3-DIMETHYLBUTYL)-N'-PHENYL- LT-P1 | MUL | SKI 2-BENZOTHAZOLESULFENAMIDE, N-CYCLOHEXYL- LT-P1 | AQU | SKI | MUL | REP POLYBUTADIENE LT-UNK TALC BM-1 | CAN BICYCLO[2.2.1]HEPT-2-ENE, 5-ETHYLIDENE-, POLYMER WITH ETHENE AND 1-PROPENE LT-UNK LEAD LT-1 | DEL | CAN | PBT | REP | MUL | END | GEN] SURVIVOR SPORTFLOOR POST INDUSTRIAL RECYCLED CONTENT [CARBON BLACK LT-1 | CAN LATEX, NATURAL RUBBER Not Screened STYRENE-BUTADIENE COPOLYMERS LT-UNK EXTRACTS (PETROLEUM), HEAVY PARAFFINIC DISTILLATE SOLVENT LT-1 | PBT | CAN | MUL OCTADECANOIC ACID, ZINC SALT LT-P1 SULFUR, ELEMENTAL LT-UNK | SKI 1,4-BENZENEDIAMINE, N-(1,3-DIMETHYLBUTYL)-N'-PHENYL- LT-P1 | MUL | SKI BENZENE, 1-ISOCYANATO-2-[(4-ISOCYANATOPHENYL)METHYL]- LT-UNK | MUL | SKI | EYE | RES | CAN 4,4'-METHYLENEDIPHENYL DIISOCYANATE LT-UNK | RES | MUL | SKI | EYE | CAN 2-BENZOTHAZOLESULFENAMIDE, N-CYCLOHEXYL- LT-P1 | AQU | SKI | MUL | REP POLYBUTADIENE LT-UNK TALC BM-1 | CAN BICYCLO[2.2.1]HEPT-2-ENE, 5-ETHYLIDENE-, POLYMER WITH ETHENE AND 1-PROPENE LT-UNK BENZENE, 1,1'-METHYLENEBIS[2-ISOCYANATO- LT-UNK | MUL | SKI | EYE | RES | CAN LEAD LT-1 | DEL | CAN | PBT | REP | MUL | END | GEN] QUIETSOUND UNDERLAYMENT POST INDUSTRIAL RECYCLED CONTENT [CARBON BLACK LT-1 | CAN LATEX,

Number of Greenscreen BM-4/BM3 contents ... 0

Contents highest concern GreenScreen Benchmark or List translator Score ... BM-1
Nanomaterial ... Yes

INVENTORY AND SCREENING NOTES:

This HPD is based on industry-standard data for the chemical composition of the post-consumer recycled content crumb rubber from tires and for determining the possible impurities and residuals of individual substances with the product. Pharoah's database of common materials was used to determine the material content of the post-consumer recycled content of the crumb rubber from used tires. Since the true chemical content is unknown this data was used as the basis for the raw material. For the residual and impurities, the toxnet database was used. This database is based on peer-reviewed journal articles and scientific studies. It details known impurities in materials studied. The actual materials used by U.S. Rubber have not been evaluated or tested therefore the impurities listed may or may not be in the actual finished product. This HPD contains one biobased substance without a CAS# in the post-consumer recycled rubber from tires. "SpecialConditionApplied:Biological Material" SC: Bio Category=Tree-based materials. Latex is harvested from the rubber tree.

NATURAL RUBBER Not Screened STYRENE-BUTADIENE COPOLYMERS
LT-UNK EXTRACTS (PETROLEUM), HEAVY PARAFFINIC DISTILLATE
SOLVENT LT-1 | PBT | CAN | MUL OCTADECANOIC ACID, ZINC SALT LT-
P1 SULFUR, ELEMENTAL LT-UNK | SKI 1,4-BENZENEDIAMINE, N-(1,3-
DIMETHYLBUTYL)-N'-PHENYL- LT-P1 | MUL | SKI BENZENE, 1-
ISOCYANATO-2-[(4-ISOCYANATOPHENYL)METHYL]- LT-UNK | MUL | SKI |
EYE | RES | CAN 4,4'-METHYLENEDIPHENYL DIISOCYANATE LT-UNK |
RES | MUL | SKI | EYE | CAN 2-BENZOTHAZOLESULFENAMIDE, N-
CYCLOHEXYL- LT-P1 | AQU | SKI | MUL | REP POLYBUTADIENE LT-UNK
TALC BM-1 | CAN BICYCLO[2.2.1]HEPT-2-ENE, 5-ETHYLIDENE-,
POLYMER WITH ETHENE AND 1-PROPENE LT-UNK BENZENE, 1,1'-
METHYLENEBIS[2-ISOCYANATO- LT-UNK | MUL | SKI | EYE | RES | CAN
LEAD LT-1 | DEL | CAN | PBT | REP | MUL | END | GEN] BINDER T-424 [
BENZENE, 1-ISOCYANATO-2-[(4-ISOCYANATOPHENYL)METHYL]- LT-UNK
| MUL | SKI | EYE | RES | CAN 4,4'-METHYLENEDIPHENYL DIISOCYANATE
LT-UNK | RES | MUL | SKI | EYE | CAN BENZENE, 1,1'-METHYLENEBIS[2-
ISOCYANATO- LT-UNK | MUL | SKI | EYE | RES | CAN]

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: CDPH Standard Method V1.1 (Section 01350/CHPS) -
Classroom & Office scenario

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #:

SCREENING DATE: 2019-06-20
PUBLISHED DATE: 2019-06-27
EXPIRY DATE: 2022-06-20



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

POST CONSUMER RECYCLED CRUMB RUBBER

%: 47.49 - 47.49

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were screened using the toxnet database and were considered based on the material's post-consumer recycled status. The two biggest concerns for impurities are lead from the tire coming in contact with the roadway and nanoparticles in carbon black.

OTHER MATERIAL NOTES:

CARBON BLACK

ID: 1333-86-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-06-20

%: 27.00 - 40.00

GS: LT-1

RC: PostC

NANO: Yes

ROLE: Pigment

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: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

LATEX, NATURAL RUBBER

ID: Not Registered

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-06-20

%: 1.00 - 50.00

GS: Not Screened

RC: PostC

NANO: No

ROLE: Polymer

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	Hazard Screening not performed	

SUBSTANCE NOTES: Latex is a natural material and does not have a CAS#.

This is a biobased material without a CAS#:
"SpecialConditionApplied:Biological Material"

SC: Bio

Category=Tree-based materials. Latex is harvested from the rubber tree.

Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

STYRENE-BUTADIENE COPOLYMERS

ID: 9003-55-8

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

HAZARD SCREENING DATE: **2019-06-20**

#: **1.00 - 50.00** GS: **LT-UNK** RC: **PostC** NANO: **No** ROLE: **Base Polymer**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

EXTRACTS (PETROLEUM), HEAVY PARAFFINIC DISTILLATE SOLVENT

ID: 64742-04-7

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

HAZARD SCREENING DATE: **2019-06-20**

#: **1.00 - 20.00** GS: **LT-1** RC: **PostC** NANO: **No** ROLE: **Process Oil**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

PBT	EU - ESIS PBT	Under PBT evaluation
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
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
CANCER	Australia - GHS	H350 - May cause cancer

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

OCTADECANOIC ACID, ZINC SALT

ID: 557-05-1

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

HAZARD SCREENING DATE: **2019-06-20**

#: **1.00 - 6.00** GS: **LT-P1** RC: **PostC** NANO: **No** ROLE: **Diluent**

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

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

SULFUR, ELEMENTAL

ID: 7704-34-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-06-20**

#: **0.90 - 4.70** GS: **LT-UNK** RC: **PostC** NANO: **No** ROLE: **Vulcanization Accelerator**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

1,4-BENZENEDIAMINE, N-(1,3-DIMETHYLBUTYL)-N'-PHENYL-

ID: 793-24-8

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-06-20**

#: **0.80 - 2.00** GS: **LT-P1** RC: **PostC** NANO: **No** ROLE: **Antiozonant**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

2-BENZOTHAZOLESULFENAMIDE, N-CYCLOHEXYL-

ID: 95-33-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-06-20**

#: **0.20 - 2.00** GS: **LT-P1** RC: **PostC** NANO: **No** ROLE: **Vulcanization Accelerator**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
CHRON AQUATIC	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1B

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

POLYBUTADIENE

ID: 9003-17-2

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

HAZARD SCREENING DATE: **2019-06-20**

#: **0.10 - 40.00**

GS: **LT-UNK**

RC: **PostC**

NANO: **No**

ROLE: **Polymer**

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

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

TALC

ID: 14807-96-6

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

HAZARD SCREENING DATE: **2019-06-20**

#: **0.10 - 5.00**

GS: **BM-1**

RC: **PostC**

NANO: **No**

ROLE: **Filler**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

BICYCLO[2.2.1]HEPT-2-ENE, 5-ETHYLIDENE-, POLYMER WITH ETHENE AND 1-PROPENE

ID: 25038-36-2

%: **0.00 - 1.00**GS: **LT-UNK**RC: **PostC**NANO: **No**ROLE: **Base Polymer**

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

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

LEADID: **7439-92-1**%: **Impurity/Residual**GS: **LT-1**RC: **PostC**NANO: **No**ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
DEVELOPMENTAL	G&L - Neurotoxic Chemicals	Developmental Neurotoxicant
CANCER	US EPA - IRIS Carcinogens	(1986) Group B2 - Probable human Carcinogen
CANCER	IARC	Group 2a - Agent is probably Carcinogenic to humans
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity
PBT	US EPA - Priority PBTs (NWMP)	Priority PBT
PBT	WA DoE - PBT	PBT
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Female
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Male
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
PBT	US EPA - Toxics Release Inventory PBTs	PBT
REPRODUCTIVE	EU - SVHC Authorisation List	Toxic to reproduction - Candidate list
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action
PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
DEVELOPMENTAL	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Developmental Toxicity
REPRODUCTIVE	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Reproductive Toxicity
REPRODUCTIVE	EU - GHS (H-Statements)	H360FD - May damage fertility. May damage the unborn child
DEVELOPMENTAL	EU - GHS (H-Statements)	H362 - May cause harm to breast-fed children

REPRODUCTIVE	EU - REACH Annex XVII CMRs	Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
CANCER	Korea - GHS	Carcinogenicity - Category 1 [H350 - May cause cancer]
REPRODUCTIVE	Korea - GHS	Reproductive toxicity - Category 1 [H360 - May damage fertility or the unborn child]
REPRODUCTIVE	New Zealand - GHS	6.8A - Known or presumed human reproductive or developmental toxicants
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1A
GENE MUTATION	MAK	Germ Cell Mutagen 3a
REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1A
DEVELOPMENTAL	Australia - GHS	H360Df - May damage the unborn child. Suspected of damaging fertility

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

SURVIVOR SPORTFLOOR POST INDUSTRIAL RECYCLED CONTENT

#: 37.99 - 37.99

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were screened using the toxnet database and were considered based on the material's post-consumer recycled status. The two biggest concerns for impurities are lead from the tire coming in contact with the roadway and nanoparticles in carbon black.

OTHER MATERIAL NOTES:

CARBON BLACK

ID: 1333-86-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-06-20

#: 27.00 - 40.00

GS: LT-1

RC: PreC

NANO: Yes

ROLE: Pigment

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: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

LATEX, NATURAL RUBBER

ID: **Not Registered**

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

HAZARD SCREENING DATE: **2019-06-20**

#: **1.00 - 50.00** GS: **Not Screened** RC: **PreC** NANO: **No** ROLE: **Polymer**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES: Natural Latex does not have a CAS# it is a natural material.

This is a biobased material without a CAS#:

"SpecialConditionApplied:Biological Material"

SC: Bio

Category=Tree-based materials. Latex is harvested from the rubber tree.

Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

STYRENE-BUTADIENE COPOLYMERS

ID: **9003-55-8**

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

HAZARD SCREENING DATE: **2019-06-20**

#: **1.00 - 50.00** GS: **LT-UNK** RC: **PreC** NANO: **No** ROLE: **Base Polymer**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap).

The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

EXTRACTS (PETROLEUM), HEAVY PARAFFINIC DISTILLATE SOLVENT

ID: **64742-04-7**

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

HAZARD SCREENING DATE: **2019-06-20**

#: **1.00 - 20.00** GS: **LT-1** RC: **PreC** NANO: **No** ROLE: **Process Oil**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PBT	EU - ESIS PBT	Under PBT evaluation
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
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
CANCER	Australia - GHS	H350 - May cause cancer

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

OCTADECANOIC ACID, ZINC SALT

ID: 557-05-1

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

HAZARD SCREENING DATE: **2019-06-20**

#: **1.00 - 6.00**

GS: **LT-P1**

RC: **PreC**

NANO: **No**

ROLE: **Diluent**

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

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

SULFUR, ELEMENTAL

ID: 7704-34-9

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

HAZARD SCREENING DATE: **2019-06-20**

#: **0.90 - 4.70**

GS: **LT-UNK**

RC: **PreC**

NANO: **No**

ROLE: **Vulcanization Accelerator**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

1,4-BENZENEDIAMINE, N-(1,3-DIMETHYLBUTYL)-N'-PHENYL-

ID: 793-24-8

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

HAZARD SCREENING DATE: **2019-06-20**

#: **0.80 - 2.00**

GS: **LT-P1**

RC: **PreC**

NANO: **No**

ROLE: **Antiozonant**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

BENZENE, 1-ISOCYANATO-2-[(4-ISOCYANATOPHENYL)METHYL]-

ID: 5873-54-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-06-20		
%: 0.55 - 1.37	GS: LT-UNK	RC: PreC	NANO: No	ROLE: Additive
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published		
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation		
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction		
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation		
RESPIRATORY	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled		
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer		
RESPIRATORY	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage		

SUBSTANCE NOTES:

4,4'-METHYLENEDIPHENYL DIISOCYANATE

ID: 101-68-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-06-20		
%: 0.55 - 1.10	GS: LT-UNK	RC: PreC	NANO: No	ROLE: Additive

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (G) - generally accepted
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
RESPIRATORY	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
RESPIRATORY	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization

SUBSTANCE NOTES:

2-BENZOTHAZOLESULFENAMIDE, N-CYCLOHEXYL-

ID: 95-33-0

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

HAZARD SCREENING DATE: **2019-06-20**

#: **0.20 - 2.00**

GS: **LT-P1**

RC: **PreC**

NANO: **No**

ROLE: **Vulcanization Accelerator**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
CHRON AQUATIC	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1B

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

POLYBUTADIENE

ID: 9003-17-2

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

HAZARD SCREENING DATE: **2019-06-20**

#: **0.10 - 40.00** GS: **LT-UNK** RC: **PreC** NANO: **No** ROLE: **Polymer**

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

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

TALC ID: **14807-96-6**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-06-20**

#: **0.10 - 5.00** GS: **BM-1** RC: **PreC** NANO: **No** ROLE: **Filler**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

BICYCLO[2.2.1]HEPT-2-ENE, 5-ETHYLIDENE-, POLYMER WITH ETHENE AND 1-PROPENE ID: **25038-36-2**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-06-20**

#: **0.02 - 20.80** GS: **LT-UNK** RC: **PreC** NANO: **No** ROLE: **Base Polymer**

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

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

BENZENE, 1,1'-METHYLENEBIS[2-ISOCYANATO- ID: **2536-05-2**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-06-20**

#: **0.00 - 0.11** GS: **LT-UNK** RC: **PreC** NANO: **No** ROLE: **Reactor**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
RESPIRATORY	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
RESPIRATORY	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage

SUBSTANCE NOTES:

LEAD

ID: 7439-92-1

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

HAZARD SCREENING DATE: **2019-06-20**

#: **Impurity/Residual** GS: **LT-1** RC: **PreC** NANO: **No** ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
DEVELOPMENTAL	G&L - Neurotoxic Chemicals	Developmental Neurotoxicant
CANCER	US EPA - IRIS Carcinogens	(1986) Group B2 - Probable human Carcinogen
CANCER	IARC	Group 2a - Agent is probably Carcinogenic to humans
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity
PBT	US EPA - Priority PBTs (NWMP)	Priority PBT
PBT	WA DoE - PBT	PBT
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Female
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Male
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
PBT	US EPA - Toxics Release Inventory PBTs	PBT
REPRODUCTIVE	EU - SVHC Authorisation List	Toxic to reproduction - Candidate list
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action
PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
DEVELOPMENTAL	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Developmental Toxicity

REPRODUCTIVE	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Reproductive Toxicity
REPRODUCTIVE	EU - GHS (H-Statements)	H360FD - May damage fertility. May damage the unborn child
DEVELOPMENTAL	EU - GHS (H-Statements)	H362 - May cause harm to breast-fed children
REPRODUCTIVE	EU - REACH Annex XVII CMRs	Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
CANCER	Korea - GHS	Carcinogenicity - Category 1 [H350 - May cause cancer]
REPRODUCTIVE	Korea - GHS	Reproductive toxicity - Category 1 [H360 - May damage fertility or the unborn child]
REPRODUCTIVE	New Zealand - GHS	6.8A - Known or presumed human reproductive or developmental toxicants
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1A
GENE MUTATION	MAK	Germ Cell Mutagen 3a
REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1A
DEVELOPMENTAL	Australia - GHS	H360Df - May damage the unborn child. Suspected of damaging fertility

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

QUIETSOUND UNDERLAYMENT POST INDUSTRIAL RECYCLED CONTENT

%: 9.50 - 9.50

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were screened using the toxnet database and were considered based on the material's post-consumer recycled status. The two biggest concerns for impurities are lead from the tire coming in contact with the roadway and nanoparticles in carbon black.

OTHER MATERIAL NOTES:

CARBON BLACK

ID: 1333-86-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-06-20

%: 25.65 - 37.99

GS: LT-1

RC: PreC

NANO: Yes

ROLE: Pigment

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: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

LATEX, NATURAL RUBBER

ID: **Not Registered**

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

HAZARD SCREENING DATE: **2019-06-20**

#: **0.95 - 47.48**

GS: **Not Screened**

RC: **PreC**

NANO: **No**

ROLE: **Polymer**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
Hazard Screening not performed		

SUBSTANCE NOTES: Natural Latex does not have a CAS # and therefore is not screened on this HPD.

This is a biobased material without a CAS#: "SpecialConditionApplied:Biological Material"
SC: Bio

Category=Tree-based materials. Latex is harvested from the rubber tree.

Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

STYRENE-BUTADIENE COPOLYMERS

ID: **9003-55-8**

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

HAZARD SCREENING DATE: **2019-06-20**

#: **0.95 - 47.48**

GS: **LT-UNK**

RC: **PreC**

NANO: **No**

ROLE: **Base Polymer**

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

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

EXTRACTS (PETROLEUM), HEAVY PARAFFINIC DISTILLATE SOLVENT

ID: **64742-04-7**

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

HAZARD SCREENING DATE: **2019-06-20**

#: **0.95 - 18.99**

GS: **LT-1**

RC: **PreC**

NANO: **No**

ROLE: **Process Oil**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PBT	EU - ESIS PBT	Under PBT evaluation
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
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
CANCER	Australia - GHS	H350 - May cause cancer

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

OCTADECANOIC ACID, ZINC SALT

ID: 557-05-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-06-20		
%: 0.95 - 5.70	GS: LT-P1	RC: PreC	NANO: No	ROLE: Diluent
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

SULFUR, ELEMENTAL

ID: 7704-34-9

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-06-20		
%: 0.85 - 4.46	GS: LT-UNK	RC: PreC	NANO: No	ROLE: Vulcanization Accelerator
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation		

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

1,4-BENZENEDIAMINE, N-(1,3-DIMETHYLBUTYL)-N'-PHENYL-

ID: 793-24-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-06-20		
%: 0.76 - 1.90	GS: LT-P1	RC: PreC	NANO: No	ROLE: Antiozonant

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

BENZENE, 1-ISOCYANATO-2-[(4-ISOCYANATOPHENYL)METHYL]-

ID: 5873-54-1

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

HAZARD SCREENING DATE: **2019-06-20**

#: **0.51 - 1.25** GS: **LT-UNK** RC: **PreC** NANO: **No** ROLE: **Additive**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
RESPIRATORY	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
RESPIRATORY	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage

SUBSTANCE NOTES:

4,4'-METHYLENEDIPHENYL DIISOCYANATE

ID: 101-68-8

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

HAZARD SCREENING DATE: **2019-06-20**

#: **0.51 - 1.00** GS: **LT-UNK** RC: **PreC** NANO: **No** ROLE: **Additive**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (G) - generally accepted
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
RESPIRATORY	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
RESPIRATORY	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization

SUBSTANCE NOTES:

2-BENZOTHAZOLESULFENAMIDE, N-CYCLOHEXYL-

ID: 95-33-0

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

HAZARD SCREENING DATE: **2019-06-20**

#: **0.19 - 1.90**

GS: **LT-P1**

RC: **PreC**

NANO: **No**

ROLE: **Vulcanization Accelerator**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
CHRON AQUATIC	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1B

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

POLYBUTADIENE

ID: 9003-17-2

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

HAZARD SCREENING DATE: **2019-06-20**

#: **0.10 - 37.99**

GS: **LT-UNK**

RC: **PreC**

NANO: **No**

ROLE: **Polymer**

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

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

TALC ID: 14807-96-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-06-20		
%: 0.10 - 4.75	GS: BM-1	RC: PreC	NANO: No	ROLE: Filler
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
CANCER	IARC	Group 2b - Possibly carcinogenic to humans		
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification		

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

BICYCLO[2.2.1]HEPT-2-ENE, 5-ETHYLIDENE-, POLYMER WITH ETHENE AND 1-PROPENE ID: 25038-36-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-06-20		
%: 0.00 - 0.95	GS: LT-UNK	RC: PreC	NANO: No	ROLE: Base Polymer
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

BENZENE, 1,1'-METHYLENEBIS[2-ISOCYANATO- ID: 2536-05-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-06-20		
%: 0.00 - 0.11	GS: LT-UNK	RC: PreC	NANO: No	ROLE: Reactor

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
RESPIRATORY	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
RESPIRATORY	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage

SUBSTANCE NOTES:

LEAD

ID: 7439-92-1

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

HAZARD SCREENING DATE: **2019-06-20**

#: **Impurity/Residual** GS: **LT-1** RC: **PreC** NANO: **No** ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
DEVELOPMENTAL	G&L - Neurotoxic Chemicals	Developmental Neurotoxicant
CANCER	US EPA - IRIS Carcinogens	(1986) Group B2 - Probable human Carcinogen
CANCER	IARC	Group 2a - Agent is probably Carcinogenic to humans
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity
PBT	US EPA - Priority PBTs (NWMP)	Priority PBT
PBT	WA DoE - PBT	PBT
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Female
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Male
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
PBT	US EPA - Toxics Release Inventory PBTs	PBT
REPRODUCTIVE	EU - SVHC Authorisation List	Toxic to reproduction - Candidate list
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action
PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
DEVELOPMENTAL	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Developmental Toxicity

REPRODUCTIVE	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Reproductive Toxicity
REPRODUCTIVE	EU - GHS (H-Statements)	H360FD - May damage fertility. May damage the unborn child
DEVELOPMENTAL	EU - GHS (H-Statements)	H362 - May cause harm to breast-fed children
REPRODUCTIVE	EU - REACH Annex XVII CMRs	Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
CANCER	Korea - GHS	Carcinogenicity - Category 1 [H350 - May cause cancer]
REPRODUCTIVE	Korea - GHS	Reproductive toxicity - Category 1 [H360 - May damage fertility or the unborn child]
REPRODUCTIVE	New Zealand - GHS	6.8A - Known or presumed human reproductive or developmental toxicants
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1A
GENE MUTATION	MAK	Germ Cell Mutagen 3a
REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1A
DEVELOPMENTAL	Australia - GHS	H360Df - May damage the unborn child. Suspected of damaging fertility

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

BINDER T-424

%: 5.00 - 5.00

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were screened using the toxnet database. The actual raw materials were not tested therefore the actual product may or may not contain those substances.

OTHER MATERIAL NOTES:

BENZENE, 1-ISOCYANATO-2-[(4-ISOCYANATOPHENYL)METHYL]-

ID: 5873-54-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-06-20

%: 10.00 - 25.00

GS: LT-UNK

RC: PreC

NANO: No

ROLE: Additive

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
RESPIRATORY	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
RESPIRATORY	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage

SUBSTANCE NOTES:

4,4'-METHYLENEDIPHENYL DIISOCYANATE

ID: 101-68-8

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

HAZARD SCREENING DATE: **2019-06-20**

#: **10.00 - 20.00**

GS: **LT-UNK**

RC: **PreC**

NANO: **No**

ROLE: **Additive**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (G) - generally accepted
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
RESPIRATORY	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
RESPIRATORY	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization

SUBSTANCE NOTES:

BENZENE, 1,1'-METHYLENEBIS[2-ISOCYANATO-

ID: 2536-05-2

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

HAZARD SCREENING DATE: **2019-06-20**

#: **0.00 - 2.00**

GS: **LT-UNK**

RC: **PreC**

NANO: **No**

ROLE: **Reactor**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
RESPIRATORY	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
RESPIRATORY	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage

SUBSTANCE NOTES:

Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

VOC EMISSIONS

CDPH Standard Method V1.1 (Section 01350/CHPS) - Classroom & Office scenario

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2019-**

EXPIRY DATE:

CERTIFIER OR LAB: **U.S. Rubber**

APPLICABLE FACILITIES: **This is not a facility-specific certification.**

06-20

Recycling

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **Conducted in general accordance with the emission testing guidelines specified under ASTM D 5116-10. Specific testing parameters and VOC emission limits were based on the California Department of Public Health (CDPH) Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Test Chambers Version 1.1 (Section 01350). Results: Predicted airborne concentrations of acetaldehyde and phenol, as well as all other CDPH compounds, in both a classroom and private office environment, are compliant with the specified California Office of Environmental Health Hazard Assessment (OEHHA) 1/2 CREL limit. This is equal to the v1.2 less than .05 mg/m3.**

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

Residuals and impurities were screened using the toxnet database. This database is based on scientific findings and peer-reviewed journal articles. Since the actual raw material used is not tested the actual residuals and impurities are unknown and therefore the reported impurities contained in this HPD may or may not be in the actual product.



MANUFACTURER INFORMATION

MANUFACTURER: **US Rubber**

ADDRESS: **1231 South Lincoln Street
Colton California 92324, USA**

WEBSITE: **www.usrubber.com**

CONTACT NAME: **Jeff Baldassari**

TITLE: **General Manager**

PHONE: **1-833-877-8223**

EMAIL: **info@usrubber.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.