created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: 23789

CLASSIFICATION: 07 13 52 Modified Bituminous Sheet Waterproofing

PRODUCT DESCRIPTION: COPLHENE BSW PROTECT'R and COPLHENE BSW PROTECTOR 3.0 are self-adhesive protective membrane used

over the COLPHENE BSW H membranes prior to placement of the reinforcement steel bars and pouring of the concrete slab.



Section 1: Summary

Nested Method / Material Threshold

CONTENT INVENTORY

Inventory Reporting Format

Nested Materials Method

C Basic Method

Threshold Disclosed Per

Material

Product

Threshold level

C 1,000 ppm

O Per GHS SDS

Other

Residuals/Impurities

Residuals/Impurities

Considered in 3 of 6 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.

All substances screened using Priority Hazard Lists with

results disclosed.

Identified C Yes Ex/SC ⊙ Yes C 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

SBS-MODIFIED BITUMEN MIXTURE [ASPHALT (ASPHALT) LT-1 | CAN LIMESTONE; CALCIUM CARBONATE (LIMESTONE; CALCIUM **CARBONATE) LT-UNK STYRENE BUTADIENE RUBBER (SBR)** (STYRENE BUTADIENE RUBBER (SBR)) LT-UNK HYDROGEN SULFIDE (HYDROGEN SULFIDE) LT-P1 | AQU | MAM | END | MUL | PHY NICKEL (NICKEL) LT-1 | RES | CAN | SKI | MAM | MUL VANADIUM (VANADIUM) LT-1 | MUL | CAN | GEN LEAD (LEAD) BM-1 | DEV | CAN | PBT | REP | MUL | END | GEN POLYCYCLIC AROMATIC HYDROCARBONS (POLYCYCLIC AROMATIC HYDROCARBONS) LT-1 | PBT | CAN NAPHTHALENE (NAPHTHALENE) LT-1 | CAN | PBT | AQU | MUL | END] SELF-ADHESIVE BITUMEN MIXTURE [ASPHALT (ASPHALT) LT-1 | CAN STYRENE BUTADIENE RUBBER (SBR) (STYRENE BUTADIENE RUBBER (SBR)) LT-UNK HYDROGEN SULFIDE (HYDROGEN SULFIDE) LT-P1 | AQU | MAM | END | MUL | PHY NICKEL (NICKEL) LT-1 | RES | CAN | SKI | MAM | MUL VANADIUM (VANADIUM) LT-1 | MUL | CAN | GEN LEAD (LEAD) BM-1 | DEV | CAN | PBT | REP | MUL | END | GEN POLYCYCLIC AROMATIC HYDROCARBONS (POLYCYCLIC AROMATIC HYDROCARBONS/ LT-1 | PBT | CAN DISTILLATES (PETROLEUM), HYDROTREATED (MILD) HEAVY NAPHTHENIC (9CI); (DISTILLATES (PETROLEUM), HYDROTREATED (MILD) HEAVY NAPHTHENIC (9CI);) LT-1 | PBT | CAN | MUL LUBRICATING OILS, PETROLEUM, HYDROTREATED SPENT (LUBRICATING OILS, PETROLEUM, HYDROTREATED SPENT) LT-P1 | CAN GAS OILS, PETROLEUM, HEAVY VACUUM (GAS OILS, PETROLEUM, HEAVY VACUUM) LT-1 CAN | MUL] SATURANT FOR POLYESTER REINFORCEMENT [ASPHALT, OXIDIZED (ASPHALT, OXIDIZED) LT-1 | CAN HYDROGEN SULFIDE (HYDROGEN SULFIDE) LT-P1 | AQU | MAM | END | MUL | PHY NICKEL (NICKEL) LT-1 | RES | CAN | SKI | MAM | MUL VANADIUM (VANADIUM) LT-1 | MUL | CAN | GEN LEAD (LEAD) BM-1 | DEV | CAN | PBT | REP | MUL | END | GEN POLYCYCLIC AROMATIC HYDROCARBONS (POLYCYCLIC AROMATIC HYDROCARBONS) LT-1 PBT | CAN NAPHTHALENE (NAPHTHALENE) LT-1 | CAN | PBT | AQU |

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

Contents highest concern GreenScreen

Benchmark or List translator Score ... BM - 1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

No substance other than those listed in this HPD have been added to the finished product during its manufacturing. Residuals or impurities could only be considered for some materials because information was not provided to the manufacturer by some raw materials vendors. The precise compositions of the bitumen mixtures were not disclosed to protect proprietary information; ranges were given.

MUL | END] MINERAL AGGREGATE SURFACING [FELDSPAR (FELDSPAR) LT-UNK | RES ALUMINUM SILICATE, NATURAL (ALUMINUM SILICATE, NATURAL - FELDSPATH) LT-UNK QUARTZ (QUARTZ) LT-1 | CAN MICA (MICA) LT-UNK FERRIC OXIDE (FERRIC OXIDE) BM-1 | CAN SODIUM OXIDE (SODIUM OXIDE) LT-UNK DIPOTASSIUM OXIDE (DIPOTASSIUM OXIDE) LT-UNK CALCIUM OXIDE) LT-P1 MAGNESIUM OXIDE (MAGNESIUM OXIDE) LT-UNK | CAN] COMPOSITE REINFORCING MAT [POLYETHYLENE TEREPHTHALATE (PET) LT-UNK NYLON 6 LT-UNK] SILICONE-COATED RELEASE FILM [POLYETHYLENE (POLYETHYLENE) LT-UNK POLYDIMETHYLSILOXANES (POLYDIMETHYLSILOXANES) LT-P1 | PBT]

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 - N/A

Management: ISO 9001:2008 Quality management systems

Management: ISO 14001:2004 Environmental management systems Management: OHSAS-18001 Occupational Health and Safety

Assessment Standard

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients Option 1

Third Party Verified?

PREPARER: Self-Prepared

SCREENING DATE: 2021-02-11

C Yes

VERIFIER:

PUBLISHED DATE: 2021-02-11 EXPIRY DATE: 2024-02-11

⊙ No

VERIFICATION #:



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

SBS-MODIFIED BITUMEN MIXTURE

%: 32.0000 - 38.0000

MATERIAL THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals were considered through information disclosed to the manufacturer by the materials suppliers.

OTHER MATERIAL NOTES: The modified bitumen is composed of different substances blended to a homogeneous mixture.

ASPHALT (ASPHALT)				ID: 8052-42-4
HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD S	CREENING D	ATE: 2021-02-11
%: 45.0000 - 55.0000	GS: LT-1	RC: None	NANO: No	SUBSTANCE ROLE: Water resistance
HAZARD TYPE	AGENCY AND LIST TITLES	WA	RNINGS	
CAN	IARC	Gro	oup 2b - Possil	bly carcinogenic to humans
CAN	US CDC - Occupational Carcinogens	Occ	cupational Car	rcinogen
CAN	IARC		oup 2B - Possi n occupationa	bly carcinogenic to humans - inhaled
CAN	MAK			p 3B - Evidence of carcinogenic effects for classification
CAN	CA EPA - Prop 65	Car	cinogen	

LIMESTONE; CALCIUM	CARBONATE	(LIMESTONE;	CALCIUM

ID: 1317-65-3

CARBONATE)

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-02-11

%: 35.0000 - 50.0000

GS: LT-UNK

RC: None

NANO: No

SUBSTANCE ROLE: Filler

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

102.1017.110 2.01 111220

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Exact percentage not disclosed to protect proprietary information.

SUBSTANCE NOTES: Exact percentage not disclosed to protect proprietary information.

STYRENE BUTADIENE RUBBER (SBR) (STYRENE BUTADIENE RUBBER (SBR))

ID: 9003-55-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-02-11

%: 5.0000 - 10.0000

GS: LT-UNK

RC: None NANO

NANO: No

SUBSTANCE ROLE: Polymer species

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

None found No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Exact percentage not disclosed to protect proprietary information.

SUBSTANCE NOTES: Hydrogen sulfide may be present as an impurity in asphalt.

HYDROGEN SULFIDE (HYDROGEN SULFIDE)

ID: 7783-06-4

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2021-02-11
%: Impurity/Residual	GS: LT-P1	RC: None NANO: No SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
AQU	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
MAM	EU - GHS (H-Statements)	H330 - Fatal if inhaled
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MUL	German FEA - Substances Hazardous Waters	to Class 2 - Hazard to Waters
MAM	US EPA - EPCRA Extremely Hazardous Substances	Extremely Hazardous Substances
PHY	EU - GHS (H-Statements)	H220 - Extremely flammable gas

NICKEL (NICKEL)				ID: 7440-02-0
HAZARD SCREENING METHOD: Pharos Chemic	cal and Materials Library	HAZARD S	CREENING D	ATE: 2021-02-11
%: Impurity/Residual	GS: LT-1	RC: None	NANO: No	SUBSTANCE ROLE: Impurity/Residual

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RES	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
CAN	IARC	Group 1 - Agent is Carcinogenic to humans
CAN	IARC	Group 2b - Possibly carcinogenic to humans
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
CAN	US NIH - Report on Carcinogens	Known to be a human Carcinogen
CAN	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
SKI	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
CAN	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
MAM	EU - GHS (H-Statements)	H372 - Causes damage to organs through prolonged or repeated exposure
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
CAN	MAK	Carcinogen Group 1 - Substances that cause cancer in man
RES	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
CAN	CA EPA - Prop 65	Carcinogen

SUBSTANCE NOTES: Nickel may be present as an impurity in asphalt.

VANADIUM (VANADIUM)		ID: 7440-62-2
HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2021-02-11
%: Impurity/Residual	GS: LT-1	RC: None NANO: No SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	German FEA - Substances Hazardous Waters	to Class 3 - Severe Hazard to Waters
CAN	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
GEN	MAK	Germ Cell Mutagen 2
SUBSTANCE NOTES: Vanadium	n may be present as an impurity in asphalt.	

LEAD (LEAD)		ID: 7439-92-1
HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2021-02-11
%: Impurity/Residual	GS: BM-1	RC: None NANO: No SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
DEV	G&L - Neurotoxic Chemicals	Developmental Neurotoxicant
CAN	US EPA - IRIS Carcinogens	(1986) Group B2 - Probable human Carcinogen

CAN	IARC	Group 2a - Agent is probably Carcinogenic to humans
CAN	IARC	Group 2b - Possibly carcinogenic to humans
PBT	US EPA - Priority PBTs (NWMP)	Priority PBT
PBT	WA DoE - PBT	PBT
REP	CA EPA - Prop 65	Reproductive Toxicity - Female
REP	CA EPA - Prop 65	Reproductive Toxicity - Male
CAN	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
PBT	US EPA - Toxics Release Inventory PBTs	PBT
REP	EU - SVHC Authorisation List	Toxic to reproduction - Candidate list
PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
DEV	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Developmental Toxicity
REP	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Reproductive Toxicity
REP	EU - GHS (H-Statements)	H360FD - May damage fertility. May damage the unborn child
DEV	EU - GHS (H-Statements)	H362 - May cause harm to breast-fed children
REP	EU - REACH Annex XVII CMRs	Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans
MUL	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CAN	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
GEN	MAK	Germ Cell Mutagen 3a
REP	EU - Annex VI CMRs	Reproductive Toxicity - Category 1A
CAN	GHS - Korea	Carcinogenicity - Category 1 [H350 - May cause cancer]
REP	GHS - Korea	Reproductive toxicity - Category 1 [H360 - May damage fertility or the unborn child]
REP	GHS - New Zealand	6.8A - Known or presumed human reproductive or developmental toxicants
REP	GHS - Japan	Toxic to reproduction - Category 1A [H360]
DEV	GHS - Australia	H360Df - May damage the unborn child. Suspected of damaging fertility
CAN	CA EPA - Prop 65	Carcinogen
DEV	CA EPA - Prop 65	Developmental toxicity
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action

SUBSTANCE NOTES: Lead may be present as an impurity in asphalt.

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZAF	RD SC	CREENING D	ATE: 2021-02-11
%: Impurity/Residual	GS: LT-1	RC: No	ne	NANO: No	SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES		WAF	RNINGS	
PBT	WA DoE - PBT		PBT		
CAN	US NIH - Report on Carcinogens		Reas	sonably Antic	cipated to be Human Carcinogen
PBT	US EPA - Toxics Release Inventory PB	Ts	PBT		
CAN	MAK		Card man	•	p 1 - Substances that cause cancer in
PBT	OSPAR - Priority PBTs & EDs & equiva concern	lent	PBT	- Chemical f	or Priority Action

NAPHTHALENE (NAPHTHALENE)				ID: 91-20-3
HAZARD SCREENING METHOD: Phare	os Chemical and Materials Library	HAZARD S	CREENING D	ATE: 2021-02-11
%: Impurity/Residual	GS: LT-1	RC: None	NANO: No	SUBSTANCE ROLE: Impurity/Residual

SUBSTANCE NOTES: Polycyclic aromatic hydrocarbons may be present as impurity in asphalt.

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	US EPA - IRIS Carcinogens	(1986) Group C - Possible human Carcinogen
CAN	IARC	Group 2b - Possibly carcinogenic to humans
PBT	US EPA - Priority PBTs (NWMP)	Priority PBT
PBT	WA DoE - PBT	PBT
CAN	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
PBT	US EPA - Toxics Release Inventory PBTs	PBT
AQU	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
AQU	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
CAN	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
MUL	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
END	ChemSec - SIN List	Endocrine Disruption
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MUL	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
CAN	MAK	Carcinogen Group 1 - Substances that cause cancer in man
CAN	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
CAN	CA EPA - Prop 65	Carcinogen
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action

SUBSTANCE NOTES: Naphthalene may be present as an impurity in asphalt.

SELF-ADHESIVE	BITUMEN MIXTURE	%: 20.0000 - 25.0000

MATERIAL THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals were considered through information disclosed to the manufacturer by the materials suppliers.

OTHER MATERIAL NOTES: The self-adhesive bitumen is composed of different substances blended to a homogeneous mixture.

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-02-11

ASPHALT (ASPHALT)	052-42-4

%: 75.0000 - 85.0000 GS: LT-1 RC: None NANO: No SUBSTANCE ROLE: Water resistance

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	IARC	Group 2b - Possibly carcinogenic to humans
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
CAN	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
CAN	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
CAN	CA EPA - Prop 65	Carcinogen
CAN	CA EPA - Prop 65	Carcinogen

STYRENE BUTADIENE RUBBER (SBR) (STYRENE BUTADIENE RUBBER

ID: 9003-55-8

(SBR)) HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-02-11

SUBSTANCE NOTES: Exact percentage not disclosed to protect proprietary information.

%: 7.0000 - 15.0000 GS: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Polymer species

WARNINGS **HAZARD TYPE** AGENCY AND LIST TITLES

None found No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Exact percentage not disclosed to protect proprietary information.

HYDROGEN SULFIDE (HYDROGEN SULFIDE)

ID: 7783-06-4

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2021-02-11
%: Impurity/Residual	GS: LT-P1	RC: None NANO: No SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
AQU	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
МАМ	EU - GHS (H-Statements)	H330 - Fatal if inhaled
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MUL	German FEA - Substances Hazardous t Waters	o Class 2 - Hazard to Waters
MAM	US EPA - EPCRA Extremely Hazardous Substances	Extremely Hazardous Substances
PHY	EU - GHS (H-Statements)	H220 - Extremely flammable gas

SUBSTANCE NOTES: Hydrogen sulfide may be present in asphalt and petroleum oil.

NICKEL (NICKEL) ID: 7440-02-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-02-11

%: Impurity/Residual GS: LT-1 RC: None NANO: No SUBSTANCE ROLE: Impurity/Residual

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
RES	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced		
CAN	IARC	Group 1 - Agent is Carcinogenic to humans		
CAN	IARC	Group 2b - Possibly carcinogenic to humans		
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen		
CAN	US NIH - Report on Carcinogens	Known to be a human Carcinogen		
CAN	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen		
SKI	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction		
CAN	EU - GHS (H-Statements)	H351 - Suspected of causing cancer		
MAM	EU - GHS (H-Statements)	H372 - Causes damage to organs through prolonged or repeated exposure		
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters		
CAN	MAK	Carcinogen Group 1 - Substances that cause cancer in man		
RES	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization		
CAN	CA EPA - Prop 65	Carcinogen		

SUBSTANCE NOTES: Nickel may be present as an impurity in asphalt.

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2021-02-11				
%: Impurity/Residual	GS: LT-1	RC: None NANO: No SUBSTANCE ROLE: Impurity/Res	idual			
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS				
MUL	German FEA - Substances Hazardous Waters	o Class 3 - Severe Hazard to Waters				
CAN	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man				
GEN	MAK	Germ Cell Mutagen 2				
SUBSTANCE NOTES: Vanadium may be present as an impurity in asphalt.						

LEAD (LEAD) ID: 7439-92-1

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD S	CREENING D	ATE: 2021-02-11
%: Impurity/Residual	GS: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES	WA	RNINGS	
DEV	G&L - Neurotoxic Chemicals	Developmental Neurotoxicant		
CAN	US EPA - IRIS Carcinogens	(1986) Group B2 - Probable human Carcinogen		

VANADIUM (VANADIUM)

ID: 7440-62-2

CAN	IARC	Group 2a - Agent is probably Carcinogenic to humans
CAN	IARC	Group 2b - Possibly carcinogenic to humans
РВТ	US EPA - Priority PBTs (NWMP)	Priority PBT
РВТ	WA DoE - PBT	PBT
REP	CA EPA - Prop 65	Reproductive Toxicity - Female
REP	CA EPA - Prop 65	Reproductive Toxicity - Male
CAN	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
РВТ	US EPA - Toxics Release Inventory PBTs	PBT
REP	EU - SVHC Authorisation List	Toxic to reproduction - Candidate list
РВТ	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
DEV	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Developmental Toxicity
REP	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Reproductive Toxicity
REP	EU - GHS (H-Statements)	H360FD - May damage fertility. May damage the unborn child
DEV	EU - GHS (H-Statements)	H362 - May cause harm to breast-fed children
REP	EU - REACH Annex XVII CMRs	Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans
MUL	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CAN	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
GEN	MAK	Germ Cell Mutagen 3a
REP	EU - Annex VI CMRs	Reproductive Toxicity - Category 1A
CAN	GHS - Korea	Carcinogenicity - Category 1 [H350 - May cause cancer]
REP	GHS - Korea	Reproductive toxicity - Category 1 [H360 - May damage fertility or the unborn child]
REP	GHS - New Zealand	6.8A - Known or presumed human reproductive or developmental toxicants
REP	GHS - Japan	Toxic to reproduction - Category 1A [H360]
DEV	GHS - Australia	H360Df - May damage the unborn child. Suspected of damaging fertility
CAN	CA EPA - Prop 65	Carcinogen
DEV	CA EPA - Prop 65	Developmental toxicity
РВТ	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action

SUBSTANCE NOTES: Lead may be present as an impurity in asphalt.

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2021-02-11				
%: Impurity/Residual	GS: LT-1	RC: N	lone	NANO: No	SUBSTANCE ROLE: Impurity/Residual	
HAZARD TYPE	AGENCY AND LIST TITLES		WA	RNINGS		
PBT	WA DoE - PBT	РВТ				
CAN	US NIH - Report on Carcinogens			Reasonably Anticipated to be Human Carcinogen		
PBT	US EPA - Toxics Release Inventory PBTs		PBT			
CAN	MAK		Car	•	p 1 - Substances that cause cancer in	
РВТ	OSPAR - Priority PBTs & EDs & equiva concern	lent	РВТ	- Chemical f	or Priority Action	

DISTILLATES (PETROLEUM), HYDROTREATED (MILD) HEAVY NAPHTHENIC (9CI); (DISTILLATES (PETROLEUM), HYDROTREATED (MILD) HEAVY NAPHTHENIC (9CI);)

SUBSTANCE NOTES: Polycyclic aromatic hydrocarbons may be present as an impurity in asphalt.

ID: 64742-52-5

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2021-02-11			2021-02-11
%: 0.0000 - 15.0000	GS: LT-1	RC: N	: None NANO: No		SUBSTANCE ROLE: Plasticizer
HAZARD TYPE	AGENCY AND LIST TITLES		WARN	IINGS	
PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently to humans			ulative and inherently Toxic (PBiTH)
CAN	EU - GHS (H-Statements)	H350 - May cause cancer			ncer
CAN	EU - REACH Annex XVII CMRs	Carcinogen Category 2 - Substances which regarded as if they are Carcinogenic to mar			
MUL	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproducti			utagen &/or Reproductive Toxicant
MUL	German FEA - Substances Hazardous Waters	to Class 3 - Severe Hazard to Waters			rd to Waters
CAN	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen on animal evidence			1B - Presumed Carcinogen based
CAN	GHS - Japan		Carcir	nogenicity - Cate	egory 1A [H350]
CAN	GHS - Australia		H350	- May cause can	ocer

 ${\small \texttt{SUBSTANCE NOTES:}} \ \textbf{Exact percentage not disclosed to protect proprietary information.}$

LUBRICATING OILS, PETROLEUM, HYDROTREATED SPENT (LUBRICATING OILS, PETROLEUM, HYDROTREATED SPENT)

ID: 64742-58-1

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE:		2021-02-11
%: 0.0000 - 12.0000	GS: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Plasticizer

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
CAN	GHS - Australia	H350 - May cause cancer	

SUBSTANCE NOTES: Exact percentage not disclosed to protect proprietary information.

GAS OILS, PETROLEUM, HEAVY VACUUM (GAS OILS, PETROLEUM, HEAVY VACUUM)

ID: 64741-57-7

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZA	RD SC	2021-02-11		
%: 0.0000 - 12.0000	GS: LT-1	RC: N	None NANO: No		SUBSTANCE ROLE: Plasticizer	
HAZARD TYPE	AGENCY AND LIST TITLES		WARN	IINGS		
CAN	EU - GHS (H-Statements)		H350 - May cause cancer			
CAN	EU - REACH Annex XVII CMRs		Carcinogen Category 2 - Substances which s regarded as if they are Carcinogenic to man			
MUL	ChemSec - SIN List		CMR - Carcinogen, Mutagen &/or Reproductive			
MUL	German FEA - Substances Hazardous Waters	to	Class	3 - Severe Haza	rd to Waters	
CAN	EU - Annex VI CMRs			nogen Category mal evidence	1B - Presumed Carcinogen based	
CAN	GHS - Australia		H350	- May cause can	ncer	
SUBSTANCE NOTES: Exact per	centage not disclosed to protect proprieta	ry infor	mation.			

SATURANT FOR POLYESTER REINFORCEMENT

%: 13.0000 - 19.0000

MATERIAL THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES

MATERIAL TYPE: Other: Asphalt derived from

CONSIDERED: No crude oil

RESIDUALS AND IMPURITIES NOTES: Residuals were not considered because information could not be disclosed to the manufacturer by the materials suppliers.

OTHER MATERIAL NOTES: Saturant fills voids in reinforcing fabric to avoid blisters.

ASPHALT, OXIDIZED (ASPHALT, OXIDIZED)

ID: 64742-93-4

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD S	CREENING DA	ATE: 2021-02-11
%: 100.0000	GS: LT-1	RC: None	NANO: No	SUBSTANCE ROLE: Water resistance

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	IARC	Group 2a - Agent is probably Carcinogenic to humans
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
CAN	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
CAN	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
CAN	CA EPA - Prop 65	Carcinogen

SUBSTANCE NOTES: Oxidized asphalt is one option for reinforcement saturation.

HYDROGEN SULFIDE (HYDROGEN SULFIDE)

ID: 7783-06-4

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2021-02-11				
%: Impurity/Residual	GS: LT-P1	RC: None NANO: No SUBSTANCE ROLE: Impurity/Residual				
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS				
AQU	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life				
MAM	EU - GHS (H-Statements)	H330 - Fatal if inhaled				
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor				
MUL	German FEA - Substances Hazardous t Waters	to Class 2 - Hazard to Waters				
MAM	US EPA - EPCRA Extremely Hazardous Substances	Extremely Hazardous Substances				
PHY	EU - GHS (H-Statements)	H220 - Extremely flammable gas				
SUBSTANCE NOTES: Hydrogen sulfide may be present as an impurity in asphalt.						

NICKEL (NICKEL)				ID: 7440-02-0
HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD S	CREENING D	ATE: 2021-02-11
%: Impurity/Residual	GS: LT-1	RC: None	NANO: No	SUBSTANCE ROLE: Impurity/Residual

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
RES	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced			
CAN	IARC	Group 1 - Agent is Carcinogenic to humans			
CAN	IARC	Group 2b - Possibly carcinogenic to humans			
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen			
CAN	US NIH - Report on Carcinogens	Known to be a human Carcinogen Reasonably Anticipated to be Human Carcinogen			
CAN	US NIH - Report on Carcinogens				
SKI	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction			
CAN	EU - GHS (H-Statements)	H351 - Suspected of causing cancer			
MAM	EU - GHS (H-Statements)	H372 - Causes damage to organs through prolonged or repeated exposure			
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters			
CAN	MAK	Carcinogen Group 1 - Substances that cause cancer in man			
RES	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization			
CAN	CA EPA - Prop 65	Carcinogen			

VANADIUM (VANADIUM)	NADIUM (VANADIUM) ID: 7440-62-2					
IAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-02-11				1
%: Impurity/Residual	GS: LT-1	RC: No	ne	NANO: No	SUBSTANCE R	OLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS Class 3 - Severe Hazard to Waters			
MUL	German FEA - Substances Hazardous Waters	to				
CAN	MAK		Card man	Carcinogen Group 2 - Considered to be carcinogman		to be carcinogenic for
GEN	MAK		Gerr	n Cell Mutag	en 2	
SUBSTANCE NOTES: Vanadiur	n may be present as an impurity in asphalt.					

LEAD (LEAD) ID: 7439-92-1					
HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2021-02-11			
%: Impurity/Residual	GS: BM-1	RC: None NANO: No SUBSTANCE ROLE: Impurity/Residual			
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
DEV	G&L - Neurotoxic Chemicals	Developmental Neurotoxicant			
CAN	US EPA - IRIS Carcinogens	(1986) Group B2 - Probable human Carcinogen			
CAN	IARC	Group 2a - Agent is probably Carcinogenic to humans			

PBT WAR REP CAE REP CAE CAN US N PBT US E REP EU- PBT OR I DEV US N Mon REP US N Mon	EPA - Priority PBTs (NWMP) DoE - PBT	Priority PBT
REP CA E REP CA E CAN US N PBT US E REP EU- PBT OR I DEV US N Mon REP US N Mon	DoE - PBT	
REP CA E CAN US N PBT US E REP EU- PBT OR I DEV US N Mon REP US N Mon		PBT
CAN US N PBT US E REP EU - PBT OR I DEV US N Mon REP US N Mon	EPA - Prop 65	Reproductive Toxicity - Female
PBT US E REP EU- PBT OR I DEV US N Mon REP US N Mon	EPA - Prop 65	Reproductive Toxicity - Male
REP EU - PBT OR I DEV US N Mon REP US N Mon	NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
PBT OR I DEV US N Mon REP US N Mon	EPA - Toxics Release Inventory PBTs	PBT
DEV US N Mon REP US N Mon	- SVHC Authorisation List	Toxic to reproduction - Candidate list
REP US Mon	DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
Mon	NIH - Reproductive & Developmental nographs	Clear Evidence of Adverse Effects - Developmental Toxicity
REP EU -	NIH - Reproductive & Developmental nographs	Clear Evidence of Adverse Effects - Reproductive Toxicity
	- GHS (H-Statements)	H360FD - May damage fertility. May damage the unborn child
DEV EU -	- GHS (H-Statements)	H362 - May cause harm to breast-fed children
REP EU -	- REACH Annex XVII CMRs	Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans
MUL Cher	emSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
END TED:	DX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CAN MAK	Κ	Carcinogen Group 2 - Considered to be carcinogenic for man
GEN MAK	K	Germ Cell Mutagen 3a
REP EU -	- Annex VI CMRs	Reproductive Toxicity - Category 1A
CAN GHS	S - Korea	Carcinogenicity - Category 1 [H350 - May cause cancer]
REP GHS	S - Korea	Reproductive toxicity - Category 1 [H360 - May damage fertility or the unborn child]
REP GHS	S - New Zealand	6.8A - Known or presumed human reproductive or developmental toxicants
REP GHS	S - Japan	Toxic to reproduction - Category 1A [H360]
DEV GHS	S - Australia	H360Df - May damage the unborn child. Suspected of damaging fertility
CAN CA E	EPA - Prop 65	Carcinogen
DEV CA E	EPA - Prop 65	Developmental toxicity
PBT OSP		PBT - Chemical for Priority Action

SUBSTANCE NOTES: Lead may be present as an impurity in asphalt.

POLYCYCLIC AROMATIC HYDROCARBONS (POLYCYCLIC AROMATIC HYDROCARBONS)

ID: 130498-29-2

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZAF	ATE: 2021-02-11			
%: Impurity/Residual	GS: LT-1	RC: No	ne	NANO: No	SUBSTANCE ROLE: Impurity/Residual	
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS			
РВТ	WA DoE - PBT		PBT			
CAN	US NIH - Report on Carcinogens		Reasonably Anticipated to be Human Carcinogen			
PBT	US EPA - Toxics Release Inventory PB	Ts	PBT Carcinogen Group 1 - Substances that cause cancer in man			
CAN	MAK					
РВТ	OSPAR - Priority PBTs & EDs & equivalent concern		lent PBT - Chemical for Priority Action			

SUBSTANCE NOTES: Polycyclic aromatic hydrocarbons may be present as an impurity in asphalt.

NAPHTHALENE (NAPHTHALENE)

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2021-02-11
%: Impurity/Residual	GS: LT-1	RC: None NANO: No SUBSTANCE ROLE: Impurity/Residua
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	US EPA - IRIS Carcinogens	(1986) Group C - Possible human Carcinogen
CAN	IARC	Group 2b - Possibly carcinogenic to humans
PBT	US EPA - Priority PBTs (NWMP)	Priority PBT
РВТ	WA DoE - PBT	PBT
CAN	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
PBT	US EPA - Toxics Release Inventory PB	rs PBT
AQU	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
AQU	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
CAN	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
MUL	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
END	ChemSec - SIN List	Endocrine Disruption
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MUL	German FEA - Substances Hazardous to Waters	o Class 3 - Severe Hazard to Waters
CAN	MAK	Carcinogen Group 1 - Substances that cause cancer in man
CAN	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
CAN	CA EPA - Prop 65	Carcinogen
РВТ	OSPAR - Priority PBTs & EDs & equival concern	ent PBT - Chemical for Priority Action

ID: 91-20-3

MINERAL AGGREGATE SURFACING %: 10.0000 - 15.0000

MATERIAL THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

MATERIAL TYPE: Geologically Derived Material

RESIDUALS AND IMPURITIES NOTES: Residuals were considered through information disclosed to the manufacturer by the materials suppliers.

OTHER MATERIAL NOTES: Top surfacing material used to improve adhesion of poured concrete.

FELDSPAR (FELDSPAR) ID: 68476-25-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-02-11 %: 28.0000 - 32.0000 GS: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Anti-adhesive agent **WARNINGS HAZARD TYPE** AGENCY AND LIST TITLES RES Asthmagen (Rs) - sensitizer-induced AOEC - Asthmagens

SUBSTANCE NOTES: Mineral aggregate surfacing is composed of natural sand, which is composed of different minerals. Feldspar is one of these minerals.

ALUMINUM SILICATE, NATURAL (ALUMINUM SILICATE, NATURAL -**FELDSPATH)**

ID: 12141-46-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-02-11

%: 27.0000 - 31.0000 GS: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Anti-adhesive agent

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

No warnings found on HPD Priority Hazard Lists None found

SUBSTANCE NOTES: Mineral aggregate surfacing is composed of natural sand, which is composed of different minerals. Feldspath is one of these minerals.

QUARTZ (QUARTZ) ID: 14808-60-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-02-11

%: 26.0000 - 35.0000 GS: LT-1 RC: None NANO: No SUBSTANCE ROLE: Anti-adhesive agent

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
CAN	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CAN	IARC	Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources
CAN	US NIH - Report on Carcinogens	Known to be Human Carcinogen (respirable size - occupational setting)
CAN	MAK	Carcinogen Group 1 - Substances that cause cancer in man
CAN	IARC	Group 1 - Agent is Carcinogenic to humans
CAN	GHS - New Zealand	6.7A - Known or presumed human carcinogens
CAN	GHS - Japan	Carcinogenicity - Category 1A [H350]
CAN	GHS - Australia	H350i - May cause cancer by inhalation

SUBSTANCE NOTES: Mineral aggregate surfacing is composed of natural sand, which is composed of different minerals. Quartz is one of these minerals.

L	MICA (MICA) ID: 12001-26-					
	HAZARD SCREENING METHOD: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2021-02-11		
	%: 2.0000 - 5.0000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Anti-adhesive agent	
	HAZARD TYPE	AGENCY AND LIST TITLES	WA	RNINGS		
None found				No wa	rnings found on HPD Priority Hazard Lists	

SUBSTANCE NOTES: Mineral aggregate surfacing is composed of natural sand, which is composed of different minerals. Mica is one of these minerals.

FERRIC OXIDE (FERRIC OXIDE)	ID: 1309-37-1			
HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD S	CREENING DA	ATE: 2021-02-11
%: Impurity/Residual	GS: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES	WA	RNINGS	
CAN	MAK	Car	cinogen Grou	p 3B - Evidence of carcinogenic effects

SUBSTANCE NOTES: Mineral aggregate surfacing is composed of natural sand, which is composed of different minerals. Iron oxide may be present as an impurity in natural sand.

SODIUM OXIDE (SODIUM OXIDE)

ID: 1313-59-3

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SO	CREENING DA	ATE: 2021-02-11
%: Impurity/Residual	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES	WA	RNINGS	
None found			No warr	nings found on HPD Priority Hazard Lists

but not sufficient for classification

SUBSTANCE NOTES: Mineral aggregate surfacing is composed of natural sand, which is composed of different minerals. Sodium oxide may be present as an impurity in natural sand.

DIPOTASSIUM OXIDE (DIPOTASSIUM OXIDE)

ID: 12136-45-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-02-11

%: Impurity/Residual GS: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Impurity/Residual

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

None found No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Mineral aggregate surfacing is composed of natural sand, which is composed of different minerals. Dipotassium oxide may be present as an impurity in natural sand.

CALCIUM OXIDE (CALCIUM OXIDE)

ID: 1305-78-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-02-11

%: Impurity/Residual GS: LT-P1 RC: None NANO: No SUBSTANCE ROLE: Impurity/Residual

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

None found No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Mineral aggregate surfacing is composed of natural sand, which is composed of different minerals. Calcium oxide may be present as an impurity in natural sand.

MAGNESIUM OXIDE (MAGNESIUM OXIDE)

ID: 1309-48-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-02-11

COMPROSURES/RESIDENT CING MAT %: 7.0000/1-78/UNIO RC: None NANO: No SUBSTANCE ROLE: Impurity/Residual

MATERIAL THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES CONSIDERED: No MATERIAL TYPE: Polymeric Material WARNINGS

RESIDUALS AND IMPURITIES NOTES: Residuals were not considered because information could not be disclosed to the manufacturer by the Carcinogen Group 4 - Non-genotoxic carcinogen with materials suppliers.

| Ow risk under MAK/BAT levels

DTHER MATERIAL NOTES: Polyester reinforcing mat is responsible for the product's mechanical properties.

SUBSTANCE NOTES: Mineral aggregate surfacing is composed of natural sand, which is composed of different minerals. Magnesium oxide may be present as an impurity in natural sand.

SUBSTANCE NOTES: Residuals were not considered because information could not be disclosed to the manufacturer by the materials

NYLON 6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-02-11

%: 10.0000 - 30.0000

GS: LT-UNK

RC: None NANO: No SUBSTANCE ROLE: Structure component

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Low-melt component of the fiber used in reinforcement. Residuals were not considered because information could not be disclosed to the manufacturer by the materials suppliers.

SILICONE-COATED RELEASE FILM %: 0.5000 - 1.5000

suppliers.

MATERIAL THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES CONSIDERED: No MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals were not considered because information could not be disclosed to the manufacturer by the materials suppliers.

OTHER MATERIAL NOTES: Silicone-coated release film is composed of a base polymeric film (polyolefin type) coated with a silicone-based release material.

POLYETHYLENE (POLYETHYLE)	NE)			ID: 9002-88-4
HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD S	CREENING [DATE: 2021-02-11
%: 95.0000 - 99.0000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Anti-adhesive agent
HAZARD TYPE	AGENCY AND LIST TITLES	WA	ARNINGS	
None found			No wa	rnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Base film for removable backing material. The exact nature of the polymer used in this film is a proprietary information from the raw material supplier. It was impossible to obtain disclosure of the nature of the film. Because it is named "polyolefin film" we chose to classify it as polyethylene in this HPD.

POLYDIMETHYLSILOXANES (POLYDIMETHYLSILOXANES)

ID: 63148-62-9

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2021-02-11
%: 1.0000 - 5.0000	GS: LT-P1	RC: None NANO: No SUBSTANCE ROLE: Anti-adhesive agent
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
РВТ	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans

SUBSTANCE NOTES: Release compound to allow installation of adhesive product. The exact nature of the silicone polymer used as a release agent in this film is a proprietary information from the raw material supplier. It was impossible to obtain disclosure of the nature of the silicone.

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 - N/A

CERTIFYING PARTY: Self-declared APPLICABLE FACILITIES: N/A

CERTIFYING PARTY: Third Party

ISSUE DATE: 2020-05-

EXPIRY DATE:

CERTIFIER OR LAB: N/A

CERTIFIER OR LAB: SGS ICS

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: N/A - This product is an exterior product therefore is not to be tested for VOC emissions.

01

MANAGEMENT

ISO 9001:2008 Quality management systems

05-07

APPLICABLE FACILITIES: Facilities covered by this certification: St Julien du Sault, France; Strasbourg, France; Val de Reuil, France; Sorgues, France; Luynes, France; Ambert, France; Cestas, France; Drummondville, Québec, Canada; Chilliwack, British Columbia, Canada; Wadsworth, Ohio, USA; Richmond, Québec, Canada; Gulfport, Mississippi, USA; Beauport, Québec, Canada; Oberrosbach, Germany; Grobbendonk, Belgium; Ijlst, Netherlands; Chignolo d'Isola Bergamo, Italy; Frosinone, Italy; Blonie, Poland; Spreitenbach, Switzerland. CERTIFICATE URL: https://www.soprema.ca/wp-

content/uploads/2017/06/SOPREMA-certificat-iso-9001-

EXPIRY DATE: 2021-**CERTIFIER OR LAB: SGS ICS** ISSUE DATE: 2018-05-

CERTIFICATION AND COMPLIANCE NOTES: Certificate number FR18/81842815. Although all the plants cited above are covered by the certification, the only plants that manufacture the product covered by this HPD are the plants in Drummondville and Chilliwack.

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ISSUE DATE: 2018-05-

MANAGEMENT

v2-ENG.pdf

ISO 14001:2004 Environmental management systems

05-07

EXPIRY DATE: 2021-

CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Facilities covered by this France; Val de Reuil, France; Sorgues, France;

certification: St Julien du Sault, France; Strasbourg, Drummondville, Québec, Canada; Chilliwack, British

Columbia, Canada; Wadsworth, Ohio, USA; Richmond,

Québec, Canada; Beauport, Québec, Canada; Grobbendonk, Belgium; Ijlst, Netherlands; Chignolo d'Isola

Bergamo, Italy; Frosinone, Italy; Blonie, Poland;

Spreitenbach, Switzerland.

CERTIFICATE URL: https://www.soprema.ca/wp-

content/uploads/2017/06/SOPREMA-certificat-iso-14001-

v2-ENG.pdf

CERTIFICATION AND COMPLIANCE NOTES: Certificate number FR18/81842816. Although all the plants cited above are covered by the certification, the only plants that manufacture COLPHENE BSW H are the plants in Drummondville and Chilliwack.

MANAGEMENT

OHSAS-18001 Occupational Health and Safety Assessment Standard

CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Facilities covered by this

certification: St Julien du Sault, France; Strasbourg,

18001-v2-ENG.pdf

France; Drummondville, Québec, Canada; Chilliwack, British Columbia, Canada; Wadsworth, Ohio, USA; Gulfport, Mississippi, USA; Beauport, Québec, Canada. CERTIFICATE URL: https://www.soprema.ca/wpcontent/uploads/2017/06/SOPREMA-certificat-ohsasISSUE DATE: 2018-05-EXPIRY DATE: 2021-CERTIFIER OR LAB: SGS ICS 05-07

CERTIFICATION AND COMPLIANCE NOTES: Certificate number FR18/81842817. Although all the plants cited above are covered by the certification, the only plants that manufacture the product covered by this HPD are the plants in Drummondville and Chilliwack.



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.

ALSAN FLASHING HPD URL: No HPD available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

ALSAN FLASHING liquid waterproofing membrane may be used for sealing around penetrations through the COLPHENE BSW system.



Residuals could not be considered for all materials as information was not provided to the manufacturer by all raw materials suppliers.

MANUFACTURER INFORMATION

MANUFACTURER: Soprema

ADDRESS: 1688 Jean-Berchmans-Michaud

Drummondville QC J2C 8E9, Canada

WEBSITE: www.soprema.ca

CONTACT NAME: Jean-François Côté

TITLE: Director, Standards and Scientific Affairs

PHONE: 819-478-8166 x.3290 EMAIL: jfcote@soprema.ca

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

Hazard Types

AQU Aquatic toxicity

CAN Cancer

DEV Developmental toxicity

END Endocrine activity

EYE Eye irritation/corrosivity

GEN Gene mutation

GLO Global warming

LAN Land toxicity

MAM Mammalian/systemic/organ toxicity

MUL Multiple

NEU Neurotoxicity

NF Not found on Priority Hazard Lists

OZO Ozone depletion

PBT Persistent, bioaccumulative, and toxic

PHY Physical hazard (flammable or reactive)

REP Reproductive

RES Respiratory sensitization

SKI Skin sensitization/irritation/corrosivity

UNK Unknown

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 (due to insufficient data)

LT-P1 List Translator Possible 1 (Possible Benchmark-1)

LT-1 List Translator 1 (Likely Benchmark-1)

LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the

information contained within the list did not result in a clear mapping

to a LT-1 or LTP1 score.)

Recycled Types

PreC Pre-consumer recycled content

PostC Post-consumer recycled content

UNK Inclusion of recycled content is unknown

None Does not include recycled content

NoGS No GreenScreen.

Other Terms:

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

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.