SOPRALENE 180 SP 3.5 by Soprema

Health Product Declaration v2.1.1

created via: HPDC Online Builder

CLASSIFICATION: 07 52 16

PRODUCT DESCRIPTION: SOPRALENE 180 SP 3.5 is a SBS-modified bitumen vapor barrier used in low-slope roofing assemblies. It has a mineral top surface and is reinforced with a non-woven polyester mat.



Section 1: Summary

Nested Method / Material Threshold

CONTENT INVENTORY

Inventory Reporting Format

- Nested Materials Method
- C Basic Method

Threshold Disclosed Per

- Material
- C Product

Threshold level

- C 100 ppm
- ① 1,000 ppm
- Per GHS SDS C Per OSHA MSDS
- C Other

Residuals/Impurities

Residuals/Impurities

Considered in 3 of 5 Materials

Explanation(s) provided for Residuals/Impurities?

Yes O No

All Substances Above the Threshold Indicated Are:

Characterized

C Yes Ex/SC © Yes C No

% weight and role provided for all substances.

Screened

C Yes Ex/SC • Yes C No

All substances screened using Priority Hazard Lists with results disclosed.

Identified

O Yes Ex/SC O Yes O 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 | PHY | MAM | END | MUL NICKEL (NICKEL) LT-1 | RES | CAN | SKI | MAM | MUL VANADIUM (VANADIUM) LT-1 | MUL | CAN | GEN LEAD (LEAD) LT-1 | DEL | CAN | PBT | REP | MUL | END | GEN POLYCYCLIC AROMATIC HYDROCARBONS (POLYCYCLIC AROMATIC HYDROCARBONS) LT-1 | PBT | CAN NAPHTHALENE (NAPHTHALENE) BM-1 | CAN | PBT | AQU | MUL | END] SATURANT FOR POLYESTER REINFORCEMENT [ASPHALT, OXIDIZED (ASPHALT, OXIDIZED) LT-1 | CAN *HYDROGEN SULFIDE (HYDROGEN SULFIDE)* LT-P1 | AQU | PHY | MAM | END | MUL NICKEL (NICKEL) LT-1 | RES | CAN | SKI | MAM | MUL VANADIUM (VANADIUM) LT-1 | MUL | CAN | GEN LEAD (LEAD) LT-1 | DEL | CAN | PBT | REP | MUL | END | GEN POLYCYCLIC AROMATIC HYDROCARBONS (POLYCYCLIC AROMATIC HYDROCARBONS) LT-1 | PBT | CAN NAPHTHALENE (NAPHTHALENE) BM-1 | CAN | PBT | AQU | 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-2 | CAN SODIUM OXIDE (SODIUM OXIDE) LT-UNK DIPOTASSIUM OXIDE (DIPOTASSIUM OXIDE) LT-UNK CALCIUM OXIDE (CALCIUM OXIDE) LT-P1 MAGNESIUM OXIDE (MAGNESIUM OXIDE) LT-UNK | CAN] POLYESTER REINFORCING MAT [POLYESTER (POLYESTER) NoGS] POLYPROPYLENE FILM [

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 not be considered because information was not provided to the manufacturer by the raw materials vendors. The precise composition of the bitumen mixture was not disclosed to protect proprietary information; ranges were given.

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) - Zero

POLYPROPYLENE LT-UNK]

VOC emissions

Management: ISO 9001:2015 Quality management systems

Management: ISO 14001:2015 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

C Yes
No

VERIFIER: VERIFICATION #: SCREENING DATE: 2019-03-01 PUBLISHED DATE: 2019-03-01

EXPIRY DATE: 2022-03-01



Section 2: Content in Descending Order of Quantity

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

SBS-MODIFIED BITUMEN MIXTURE

%: 77.0000

MATERIAL THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

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 SCREENING DATE: 2019-03-01

%: 45.0000 - 55.0000	GS: LT-1 RC: None	NANO: No ROLE: Main waterproofing compound
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	IARC	Group 2B - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

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

LIMESTONE; CALCIUM CARBONATE (LIMESTONE; CALCIUM **CARBONATE**)

ID: 1317-65-3

HAZARD SCREENING METHOD: Pharos	Chemical and Materials Library	HAZARD SCRE	EENING DATE: 2	2019-03-01
%: 35.0000 - 50.0000	GS: LT-UNK	RC: None	NANO: No	ROLE: Mineral stabilizer and hardener
HAZARD TYPE	AGENCY AND LIST TITLES	WARI	NINGS	
	No hazards found			

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

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

naros Chemical and Materials Library	HAZARD	SCREENING I	DATE: 2019-03-01
GS: LT-UNK	RC: None	NANO: No	ROLE: Polymeric modifier for adhesion and heat resistance
AGENCY AND LIST TITLES		WARN	IINGS
No hazards found			
	GS: LT-UNK AGENCY AND LIST TITLES	GS: LT-UNK RC: None	GS: LT-UNK RC: NANO: None No AGENCY AND LIST TITLES WARN

HYDROGEN SULFIDE (HYDROGEN SULFIDE)

ID: 7783-06-4

HAZARD SCREENING METHOD: Pharos (Chemical and Materials Library	HAZARD SCREEN	NING DATE: 2019 -	03-01
%: Impurity/Residual	GS: LT-P1	RC: None	nano: No	ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	GS	
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 -	Very toxic to aq	uatic life
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H220 -	Extremely flamn	nable gas
MAMMALIAN	EU - GHS (H-Statements)	H330 -	Fatal if inhaled	
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potent	ial Endocrine Dis	eruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2	2 - Hazard to Wa	ters
MAMMALIAN	US EPA - EPCRA Extremely Hazardous Substances	Extrem	nely Hazardous S	Substances

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

NICKEL (NICKEL) ID: 7440-02-0

HAZARD SCREENING METHOD: Pharos Chemical a	nd Materials Library	HAZARD SCREEN	IING DATE: 2019-	03-01
%: Impurity/Residual	GS: LT-1	RC: None	NANO: No	ROLE: Impurity/Residual

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

 $\mbox{\scriptsize SUBSTANCE}$ Notes: Nickel may be present as an impurity in asphalt.

VANADIUM (VANADIUM)	ID: 7440-62-2
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HAZARD SCREENING METHOD: Pha	ros Chemical and Materials Library	HAZARD SCREE	NING DATE: 2019-	-03-01
%: Impurity/Residual	gs: LT-1	RC: None	nano: No	ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES	WARNIN	GS	
MULTIPLE	German FEA - Substances Hazardous to Waters	Class	3 - Severe Hazar	rd to Waters
CANCER	MAK	Carcir man	nogen Group 2 -	Considered to be carcinogenic for
GENE MUTATION	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 Chemic	cal and Materials Library	HAZARD SCREE	NING DATE: 2019-	-03-01
%: Impurity/Residual	GS: LT-1	RC: None	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
РВТ	US EPA - Priority PBTs (NWMP)	Priority PBT
РВТ	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
РВТ	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: Lead may be present as an impurity in asphalt.

POLYCYCLIC AROMATIC HYDROCARBONS (POLYCYCLIC AROMATIC HYDROCARBONS)

ID: 130498-29-2

HAZARD SCREENING METHOD: Pha	aros Chemical and Materials Library	HAZARD SCREENING DATE: 2019-03-01
%: Impurity/Residual	gs: LT-1	RC: None NANO: No ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
РВТ	WA DoE - PBT	PBT
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
PBT	US EPA - Toxics Release Inventory PBTs	PBT
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man

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

NAPHTHALENE (NAPHTHALENE)

ID: **91-20-3**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-03-01		
%: Impurity/Residual	GS: BM-1	RC: None	nano: No	ROLE: Impurity/Residual

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

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

SATURANT FOR POLYESTER REINFORCEMENT

%: 9.0000

MATERIAL THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

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

OTHER MATERIAL NOTES: Saturant used to fill all voids within reinforcing mat.

ASPHALT, OXIDIZED (ASPHALT, OXIDIZED)

ID: 64742-93-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-03-01		
%: 100.0000	gs: LT-1	RC: None	NANO: No	ROLE: Saturation of reinforcing mat

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

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: 2019-03-01			
%: Impurity/Residual	GS: LT-P1	RC: None	ROLE: Impurity/Residual		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	GS		
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life			
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H220 - Extremely flammable gas			
MAMMALIAN	EU - GHS (H-Statements)	H330 - Fatal if inhaled			
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor			
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2	2 - Hazard to Wa	ters	
MAMMALIAN	US EPA - EPCRA Extremely Hazardous Substances	Extrem	nely Hazardous S	Substances	

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 SCREENING DATE: 2019-03-01		
%: Impurity/Residual	GS: LT-1	RC: None	NANO: No	ROLE: Impurity/Residual

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

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

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

AZARD SCREENING METHOD: Pha	ros Chemical and Materials Library	HAZARD SCREE	NING DATE: 2019	-03-01
%: Impurity/Residual	GS: LT-1	RC: None	nano: No	ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES	WARNIN	NGS	
MULTIPLE	German FEA - Substances Hazardous to Waters	Class	3 - Severe Hazaı	rd to Waters
CANCER	MAK	Carcii man	nogen Group 2 -	Considered to be carcinogenic for
GENE MUTATION	MAK	Germ	Cell Mutagen 2	

LEAD (LEAD) ID: 7439-92-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2019-03-01

%: Impurity/Residual	GS: LT-1	RC: No	one NANO: No	ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
DEVELOPMENTAL	G&L - Neurotoxic Chemicals		Developmental Ne	urotoxicant
CANCER	US EPA - IRIS Carcinogens		(1986) Group B2 -	Probable human Carcinogen
CANCER	IARC		Group 2A - Agent i	is probably Carcinogenic to humans
CANCER	IARC		Group 2B - Possib	ly carcinogenic to humans
CANCER	CA EPA - Prop 65		Carcinogen	
DEVELOPMENTAL	CA EPA - Prop 65		Developmental tox	cicity
РВТ	US EPA - Priority PBTs (NWMP)		Priority PBT	
РВТ	WA DoE - PBT		PBT	
REPRODUCTIVE	CA EPA - Prop 65		Reproductive Toxi	city - Female
REPRODUCTIVE	CA EPA - Prop 65		Reproductive Toxi	city - Male
CANCER	US NIH - Report on Carcinogens		Reasonably Anticip	pated to be Human Carcinogen
РВТ	US EPA - Toxics Release Inventory PBT	s	PBT	
REPRODUCTIVE	EU - SVHC Authorisation List		Toxic to reproduct	ion - Candidate list
РВТ	OSPAR - Priority PBTs & EDs & equivale concern	ent	PBT - Chemical for	r Priority Action
РВТ	OR DEQ - Priority Persistent Pollutants		Priority Persistent	Pollutant - Tier 1
DEVELOPMENTAL	US NIH - Reproductive & Developmenta Monographs	I	Clear Evidence of	Adverse Effects - Developmental Toxicity
REPRODUCTIVE	US NIH - Reproductive & Developmenta Monographs	I	Clear Evidence of	Adverse Effects - Reproductive Toxicity
REPRODUCTIVE	EU - GHS (H-Statements)		H360FD - May dan child	nage fertility. May damage the unborn
DEVELOPMENTAL	EU - GHS (H-Statements)		H362 - May cause	harm to breast-fed children
REPRODUCTIVE	EU - REACH Annex XVII CMRs			etion Category 1 - Substances known to ause Developmental Toxicity in humans
MULTIPLE	ChemSec - SIN List		CMR - Carcinogen	, Mutagen &/or Reproductive Toxicant
ENDOCRINE	TEDX - Potential Endocrine Disruptors		Potential Endocrin	e Disruptor
CANCER	MAK		Carcinogen Group man	2 - Considered to be carcinogenic for
CANCER	Korea - GHS		Carcinogenicity - 0	Category 1 [H350 - May cause cancer]
REPRODUCTIVE	Korea - GHS		Reproductive toxic fertility or the unbo	city - Category 1 [H360 - May damage orn child]
REPRODUCTIVE	New Zealand - GHS		6.8A - Known or prodevelopmental tox	resumed human reproductive or icants
REPRODUCTIVE	Japan - GHS		Toxic to reproduct	ion - Category 1A
GENE MUTATION	MAK		Germ Cell Mutage	n 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: 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		HAZARD SCRE	HAZARD SCREENING DATE: 2019-03-01		
%: Impurity/Residual	GS: LT-1	RC: None	nano: No	ROLE: Impurity/Residual	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
РВТ	WA DoE - PBT	PBT			
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen			
РВТ	US EPA - Toxics Release Inventory PBTs	PBT			
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemi	cal for Priority	Action	
CANCER	MAK	Carcinogen (Group 1 - Subs	stances that cause cancer in	

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

NAPHTHALENE (NAPHTHALENE)

ID: **91-20-3**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-03-01		
%: Impurity/Residual	GS: BM-1	RC: None	nano: No	ROLE: Impurity/Residual

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

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

MINERAL AGGREGATE SURFACING

%: 7.0000

MATERIAL THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

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 subsequent materials.

FELDSPAR (FELDSPAR)

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-03-01

MEDIANO: No ROLE: Sand surfacing component

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only

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: 2019-03-01		
%: 27.0000 - 31.0000	GS: LT-UNK	RC: None NANO: No ROLE: Sand surfacing componen	nt	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
	No hazards 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: 2019-03-01		
%: 26.0000 - 35.0000	GS: LT-1	RC: None	nano: No	ROLE: Sand surfacing component
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
CANCER	US CDC - Occupational Carcinogens		Occupational C	arcinogen
CANCER	CA EPA - Prop 65		Carcinogen - sp	pecific to chemical form or exposure route
CANCER	IARC		Group 1 - Agent	t is carcinogenic to humans - inhaled from ources
CANCER	US NIH - Report on Carcinogens		Known to be Hu	uman Carcinogen (respirable size - etting)
CANCER	MAK		Carcinogen Gro	oup 1 - Substances that cause cancer in
CANCER	New Zealand - GHS		6.7A - Known o	r presumed human carcinogens
CANCER	Australia - GHS		H350 - May cau	ise cancer
CANCER	Japan - GHS		Carcinogenicity	- Category 1A

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

MICA (MICA) ID: 12001-26-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCRE	HAZARD SCREENING DATE: 2019-03-01			
%: 2.0000 - 5.0000	GS: LT-UNK	RC: None	nano: No	ROLE: Sand surfacing component		
HAZARD TYPE	AGENCY AND LIST TITLES	WA	ARNINGS			
	No hazards found					

minerals.

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

FERRIC OXIDE (FERRIC OXIDE)

ID: 1309-37-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-03-01			
%: Impurity/Residual	GS: BM-2	RC: None	nano: No	ROLE: Impurity/Residual	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNIN	GS		
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effective but not sufficient for classification		_	

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 SCREE	HAZARD SCREENING DATE: 2019-03-01			
%: Impurity/Residual	GS: LT-UNK	RC: None	nano: No	ROLE: Impurity/Residual		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS				
	No hazards found					

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 SCREEN	HAZARD SCREENING DATE: 2019-03-01			
%: Impurity/Residual	GS: LT-UNK	RC: None	nano: No	ROLE: Impurity/Residual		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	S			
	No hazards found					

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.

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	HAZARD SCREENING DATE: 2019-03-01			
%: Impurity/Residual	GS: LT-P1	RC: None	nano: No	ROLE: Impurity/Residual		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	GS			
	No hazards found					

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: 2019-03-01		
%: Impurity/Residual	GS: LT-UNK	RC: None	NANO: No	ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	s	
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with lo risk under MAK/BAT levels		

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.

POLYESTER REINFORCING MAT

%: 4.0000

MATERIAL THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

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

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

POLYESTER (POLYESTER) ID: 113669-95-7 HAZARD SCREENING DATE: 2019-03-01 HAZARD SCREENING METHOD: Pharos Chemical and Materials Library %: 100,0000 ROLE: Reinforcing material responsible for GS: NoGS RC: NANO: None No mechanical properties HAZARD TYPE AGENCY AND LIST TITLES WARNINGS No hazards found SUBSTANCE NOTES: Polyester fibres in a non-woven configuration.

POLYPROPYLENE FILM

%: 0.1000

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

OTHER MATERIAL NOTES: Polypropylene film is used as the bottom surfacing material.

POLYPROPYLENE				ID: 9003-07-0		
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-03-01				
%: 100.0000	GS: LT-UNK	RC: None	NANO: No	ROLE: Surface material - burns when membrane is installed		
HAZARD TYPE	AGENCY AND LIST TITLES		WARN	INGS		
	No hazards found					

SUBSTANCE NOTES: BOPP film.



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) - Zero VOC emissions

CERTIFYING PARTY: Self-declared

APPLICABLE FACILITIES: N/A

CERTIFICATE URL:

ISSUE DATE: 2019-

03-01

EXPIRY DATE:

CERTIFIER OR LAB: N/A

CERTIFIER OR LAB: SGS ICS

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

ISSUE DATE: 2018-

05-28

MANAGEMENT

ISO 9001:2015 Quality management systems

05-07

EXPIRY DATE: 2021-

CERTIFYING PARTY: Third Party

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; La Chapelle Saint Luc,

France; Saint Rambert, France; Golbey, France;

Drummondville, Québec, Canada; Chilliwack,

British Columbia, Canada; Wadsworth, Ohio,

USA; Richmond, Québec, Canada; Gulfport,

Mississippi, USA; Beauport, Québec, Canada;

Oberrosbach, Germany; Grobbendonk,

Belgium; Andenne, Belgium; Ijlst, Netherlands; Chignolo d'Isola Bergamo, Italy; Frosinone,

Italy; San Vito al Tagliamento, Italy;

Verolanuova, Italy; Salgareda, Italy; Blonie,

Poland; Spreitenbach, Switzerland; Cham,

Switzerland.

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

content/uploads/2015/05/SOPREMA-certificat-

iso-9001-v2-ENG.pdf

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, Chilliwack, Wadsworth and Gulfport.

MANAGEMENT

ISO 14001:2015 Environmental management systems

CERTIFYING PARTY: Third Party ISSUE DATE: 2018-EXPIRY DATE: 2021-CERTIFIER OR LAB: SGS ICS APPLICABLE FACILITIES: Facilities covered by this 05-28 05-07

certification: St Julien du Sault, France; Strasbourg, France; Val de Reuil, France; Sorgues, France; La Chapelle Saint Luc, France; Saint Rambert, France; Golbey, France; Drummondville, Québec, Canada; Chilliwack, British Columbia, Canada; Wadsworth, Ohio, USA; Richmond, Québec, Canada; Beauport, Québec, Canada; Grobbendonk, Belgium; Andenne, Belgium; Ijlst, Netherlands; Chignolo d'Isola Bergamo, Italy; Frosinone, Italy; Salgareda, Italy; San Vito al Tagliamento, Italy; Verolanuova, Italy; Blonie, Poland; Spreitenbach, Switzerland; Cham, Switzerland. CERTIFICATE URL: https://www.soprema.ca/wp-

content/uploads/2015/05/SOPREMA-certificat-

CERTIFICATION AND COMPLIANCE NOTES: Certificate number FR18/81842816. 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, Chilliwack, Wadsworth and Gulfport.

ISSUE DATE: 2018-

05-28

MANAGEMENT

iso-14001-v2-ENG.pdf

OHSAS-18001 Occupational Health and Safety Assessment Standard

CERTIFIER OR LAB: SGS ICS

EXPIRY DATE: 2021-

05-07

CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Facilities covered by this certification: St Julien du Sault, France; Strasbourg, France; La Chapelle Saint Luc, France; Saint Rambert, France; Drummondville, Québec, Canada; Chilliwack, British Columbia, Canada; Beauport, Québec, Canada; Wadsworth, Ohio, USA; Gulfport, Mississippi, USA; Andenne, Belgium; Chignolo d'Isola Bergamo, Italy; Frosinone, Italy; San Vito al

Tagliamento, Italy; Verolanuova, Italy; Salgareda, Italy. CERTIFICATE URL: https://www.soprema.ca/wpcontent/uploads/2015/05/SOPREMA-certificatohsas-18001-v2-ENG.pdf

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, Chilliwack, Wadsworth and Gulfport.



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.

BITUMINOUS-BASED ROOFING PRIMER

HPD URL: No HPD Available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

The use of a primer may be required or recommended depending on the type of substrate on which is installed SOPRALENE 180 SP 3.5. Acceptable primers include ELASTOCOL 500 (340 g/L VOC content) and ELASTOCOL 350 (31 g/L VOC content).



Section 5: General Notes

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

MANUFACTURER INFORMATION

MANUFACTURER: Soprema

ADDRESS: 1688 Jean-Berchmans-Michaud Drummondville Quebec 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

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 (insuficient 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.