# SOPRALENE FLAM 180 by Soprema

## Health Product Declaration v2.2 created via: HPDC Online Builder

#### HPD UNIQUE IDENTIFIER: 23795

CLASSIFICATION: 07 52 16.13 Torch-Applied Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing PRODUCT DESCRIPTION: SOPRALENE FLAM 180 is a heat-welded base sheet membrane used in two-ply roofing assemblies. It is composed of SBS modified bitumen and is reinforced with a non-woven polyester mat.

# Section 1: Summary

### CONTENT INVENTORY

- Inventory Reporting Format
- Nested Materials Method
- C Basic Method
- Threshold Disclosed Per
- Material
- C Product

- Threshold level © 100 ppm © 1,000 ppm
- O Per GHS SDS O Other
- Considered in 2 of 5 Materials Explanation(s) provided for Residuals/Impurities?

**Residuals/Impurities** 

**Residuals/Impurities** 

## **Nested Method / Material Threshold**

All Substances Above the The Characterized	reshold Indicated Are: C Yes Ex/SC ⊙ Yes C No
% weight and role provided t	for all substances.
Screened	○ Yes Ex/SC
All substances screened usin results disclosed.	g Priority Hazard Lists with
Identified	○ Yes Ex/SC ⊙ Yes ○ No
All substances disclosed by I and Identifier.	Name (Specific or Generic)

#### 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) 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 ] 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)* 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 ] POLYESTER REINFORCING MAT [ POLYESTER (POLYESTER) NoGS ] POLYPROPYLENE FILM [ POLYPROPYLENE (POLYPROPYLENE) LT-UNK ] COLORED SAND [ QUARTZ LT-1 | CAN 2-(2-BUTOXYETHOXY)ETHANOL LT-P1 | EYE | END TRIETHOXY(ETHYL)SILANE LT-UNK ]

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 SBS-modified-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 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? O Yes

No

PREPARER: Self-Prepared VERIFIER: VERIFICATION #: SCREENING DATE: 2021-02-11 PUBLISHED DATE: 2021-02-11 EXPIRY DATE: 2024-02-11 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

	(SBR) (STYRENE BUTADIENE RUBBER					ID: 9003-5
SUBSTANCE NOTES: Exact per	centage not disclosed to protect proprieta	ry informatio	n.			
None found			No warn	ings fo	ound on HPD I	Priority Hazard Lis
HAZARD TYPE	AGENCY AND LIST TITLES	WAF	RNINGS			
%: 35.0000 - 50.0000	GS: LT-UNK	RC: None	NANO: N	lo	SUBSTANC	E ROLE: Filler
HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD S	CREENING D	ATE:	2021-02-11	
LIMESTONE; CALCIUM CARBON		ry mornato				ID: <b>1317-6</b>
CAN SUBSTANCE NOTES: Exact per	MAK centage not disclosed to protect proprieta	but	not sufficient			arcinogenic effect
CAN	IARC		up 2B - Possil noccupationa	-	-	numans - inhaled
CAN	US CDC - Occupational Carcinogens		upational Car			
CAN	CA EPA - Prop 65	Card	cinogen			
CAN	IARC	Grou	up 2b - Possik	oly car	cinogenic to h	numans
HAZARD TYPE	AGENCY AND LIST TITLES	WAF	RNINGS			
%: 45.0000 - 55.0000	GS: <b>LT-1</b>	RC: None	NANO: No	SUB	STANCE ROL	E: Water resistan
HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD S	CREENING DA	ATE:	2021-02-11	
ASPHALT (ASPHALT)						ID: 8052-4
THER MATERIAL NOTES: The mo	dified bitumen is composed of different su	ibstances ble	ended to a hor	nogen	ieous mixture.	
ESIDUALS AND IMPURITIES NOT	ES: Residuals were considered through in	formation dis	closed to the	manut	facturer by the	e materials suppli
	RESIDUALS AND IMPURITIES C	ONSIDERED:	res	MAIE	RIAL I TPE: P	olymeric Material

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No warnings found on HPD Priority Hazard Lists

ID: 7783-06-4

ID: 7440-02-0

None found

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

#### HYDROGEN SULFIDE (HYDROGEN SULFIDE)

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2021-02-11		
%: Impurity/Residual	GS: <b>LT-P1</b>	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		
РНҮ	EU - GHS (H-Statements)	H220 - Extremely flammable gas		
MAM	EU - GHS (H-Statements)	H330 - Fatal if inhaled		
END	TEDX - Potential Endocrine Disruptors	s Potential Endocrine Disruptor		
MUL	German FEA - Substances Hazardous Waters	s to Class 2 - Hazard to Waters		
МАМ	US EPA - EPCRA Extremely Hazardous Substances	us Extremely Hazardous Substances		

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

NICKEL	(NICKEL)
NICKEL	

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD S	CREENING D	ATE: 2021-02-11
%: Impurity/Residual	GS: <b>LT-1</b>	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	CA EPA - Prop 65	Carcinogen
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
МАМ	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	МАК	Carcinogen Group 1 - Substances that cause cancer in man
RES	МАК	Sensitizing Substance Sah - Danger of airway & skin sensitization

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

					ID: 7440-62-2
aros Chemical and Materials Library	HAZAR	D SC	CREENING D	ATE: 2021-02-11	
GS: <b>LT-1</b>	RC: No	ne	NANO: No	SUBSTANCE ROLE: Impu	irity/Residual
AGENCY AND LIST TITLES		WAF	NINGS		
German FEA - Substances Hazardous to Waters	)	Clas	s 3 - Severe	Hazard to Waters	
МАК			0	p 2 - Considered to be carc	inogenic for
МАК		Gern	n Cell Mutag	en 2	
	GS: LT-1 AGENCY AND LIST TITLES German FEA - Substances Hazardous to Vaters MAK	GS: LT-1 RC: No AGENCY AND LIST TITLES German FEA - Substances Hazardous to Vaters	GS: LT-1 RC: None AGENCY AND LIST TITLES WAF German FEA - Substances Hazardous to Clas Vaters MAK Carc man	GS: LT-1 RC: None NANO: No AGENCY AND LIST TITLES WARNINGS German FEA - Substances Hazardous to Class 3 - Severe Vaters MAK Carcinogen Grouman	GS: LT-1 RC: None NANO: No SUBSTANCE ROLE: Imput AGENCY AND LIST TITLES WARNINGS German FEA - Substances Hazardous to Class 3 - Severe Hazard to Waters Vaters MAK Carcinogen Group 2 - Considered to be carcinan

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 SCREENING DATE: 2021-02-11			
%: Impurity/Residual	GS: <b>BM-1</b>	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	(198	6) Group B2 -	- Probable human Carcinogen	

CAN	IARC	Group 2a - Agent is probably Carcinogenic to humans
CAN	IARC	Group 2b - Possibly carcinogenic to humans
CAN	CA EPA - Prop 65	Carcinogen
DEV	CA EPA - Prop 65	Developmental toxicity
РВТ	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	РВТ
REP	EU - SVHC Authorisation List	Toxic to reproduction - Candidate list
РВТ	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action
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	МАК	Carcinogen Group 2 - Considered to be carcinogenic for man
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]
GEN	МАК	Germ Cell Mutagen 3a
REP	EU - Annex VI CMRs	Reproductive Toxicity - Category 1A
DEV	GHS - Australia	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**)

	120/	00	00 0	5
ID:	1304	190-	-29-2	-

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2021-02-11			DATE: 2021-02-11
%: Impurity/Residual	GS: <b>LT-1</b>	RC: None NANO: No SUBSTANCE ROLE: In			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			cipated to be Human Carcinogen
РВТ	US EPA - Toxics Release Inventory PB	BTs PBT			
РВТ	OSPAR - Priority PBTs & EDs & equiva concern	lent PBT - Chemical for Priority Action		or Priority Action	
CAN	МАК		Caro mar	•	p 1 - Substances that cause cancer in

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

NAPHTHALENE (NAPHTHALENE)
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ID: 91-20-3

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	
CAN	US EPA - IRIS Carcinogens	(1986) Group C - Possible human Carcinogen	
CAN	IARC	Group 2b - Possibly carcinogenic to humans	
CAN	CA EPA - Prop 65	Carcinogen	
РВТ	US EPA - Priority PBTs (NWMP)	Priority PBT	
РВТ	WA DoE - PBT	PBT	
CAN	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 - Chemical for Priority Action	
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	МАК	Carcinogen Group 1 - Substances that cause cancer in man	
CAN	МАК	Carcinogen Group 2 - Considered to be carcinogenic for man	
SUBSTANCE NOTES: Naphthaler	ne may be present as an impurity in asphalt.		
SATURANT FOR POLYESTER REINFORCEMENT	%: 10.0000 - 12.0000		
MATERIAL THRESHOLD: 1000 ppm	RESIDUALS AND IMPURITIES CONS	SIDERED: MATERIAL TYPE: Other: Asphalt derived from crude oil	
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.		
		ID: 64742-93-4	

ASPHALT, OXIDIZED (ASPHALT, OX	IDIZED)			ID: 64742-93-4
HAZARD SCREENING METHOD: Ph	aros Chemical and Materials Library	HAZARD SO	CREENING DA	ATE: 2021-02-11
%: 100.0000	GS: <b>LT-1</b>	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	CA EPA - Prop 65	Carcinogen
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
CAN	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
CAN	МАК	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: 2021-02-11				
%: Impurity/Residual	GS: <b>LT-P1</b>	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				
РНҮ	EU - GHS (H-Statements)	H220 - Extremely flammable gas				
МАМ	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				
МАМ	US EPA - EPCRA Extremely Hazardous Substances	Extremely Hazardous 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: 2021-02-11	
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%: 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	CA EPA - Prop 65	Carcinogen
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
МАМ	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	МАК	Carcinogen Group 1 - Substances that cause cancer in man
RES	МАК	Sensitizing Substance Sah - Danger of airway & skin sensitization

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

VANADIUM (VANADIUM)		ID: 7440-62
HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2021-02-11
%: Impurity/Residual	GS: <b>LT-1</b>	RC: None NANO: No SUBSTANCE ROLE: Impurity/Residu
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	German FEA - Substances Hazardous Waters	to Class 3 - Severe Hazard to Waters
CAN	МАК	Carcinogen Group 2 - Considered to be carcinogenic for man
GEN	МАК	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	DATE: 2021-02-11
%: Impurity/Residual	GS: <b>BM-1</b>	RC: None	NANO: No	SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES	WA	RNINGS	
DEV	G&L - Neurotoxic Chemicals	Dev	velopmental N	leurotoxicant
CAN	US EPA - IRIS Carcinogens	(198	36) Group B2	- Probable human Carcinogen
CAN	IARC	Gro	up 2a - Agent	t is probably Carcinogenic to humans

CAN	IARC	Group 2b - Possibly carcinogenic to humans
CAN	CA EPA - Prop 65	Carcinogen
DEV	CA EPA - Prop 65	Developmental toxicity
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
РВТ	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action
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	МАК	Carcinogen Group 2 - Considered to be carcinogenic for man
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]
GEN	МАК	Germ Cell Mutagen 3a
REP	EU - Annex VI CMRs	Reproductive Toxicity - Category 1A
DEV	GHS - Australia	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 SCREENING DATE: 2021-02-11			ATE: 2021-02-11
%: Impurity/Residual	GS: <b>LT-1</b>	RC: No	one	NANO: No	SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES		WAF	RNINGS	
РВТ	WA DoE - PBT	РВТ			
CAN	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human C		pipated to be Human Carcinogen	
РВТ	US EPA - Toxics Release Inventory PB	Ts	PBT		
РВТ	OSPAR - Priority PBTs & EDs & equival concern	uivalent PBT - Chemical for Priority Action		or Priority Action	
CAN	MAK		Caro man		p 1 - Substances 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: 2021-02-11
%: Impurity/Residual	GS: <b>LT-1</b>	RC: None NANO: No SUBSTANCE ROLE: Impurity/Residual
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
CAN	CA EPA - Prop 65	Carcinogen
РВТ	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 PB	's PBT
PBT	OSPAR - Priority PBTs & EDs & equival concern	ent PBT - Chemical for Priority Action
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 t Waters	o Class 3 - Severe Hazard to Waters
CAN	МАК	Carcinogen Group 1 - Substances that cause cancer in man
CAN	МАК	Carcinogen Group 2 - Considered to be carcinogenic for man

SUBSTANCE NOTES: Naphthalene may be present as an impurity in asphalt.					
POLYESTER REINFORCING MAT	%: 4.9000				
MATERIAL THRESHOLD: 100 ppm	RESIDUALS AND IMPURITIES CO	NSIDERED: 1	No	MATERIAL TYPE: Polymeric Material	
RESIDUALS AND IMPURITIES NOTES: materials suppliers.	Residuals were not considered because	se informatio	n could not b	be disclosed to the manufacturer by the	
OTHER MATERIAL NOTES: Polyester r	einforcing mat is responsible for the pr	oduct's mech	nanical prope	erties.	
POLYESTER (POLYESTER)				ID: 113669-95-7	
HAZARD SCREENING METHOD: Ph	aros Chemical and Materials Library	HAZARD SO	CREENING D	DATE: 2021-02-11	
%: 100.0000	GS: NoGS	RC: None	NANO: No	SUBSTANCE ROLE: Structure component	
HAZARD TYPE	AGENCY AND LIST TITLES	WA	RNINGS		
None found			No wa	arnings found on HPD Priority Hazard Lists	
SUBSTANCE NOTES: Polyester fibro	es in a non-woven configuration.				
•					
	N/- 0 0000				
				MATERIAL TYPE: Debussed Meterial	
MATERIAL THRESHOLD: 100 ppm	RESIDUALS AND IMPURITIES CO			MATERIAL TYPE: Polymeric Material	
materials suppliers.	Residuais were not considered becaus	se information	n coula not c	be disclosed to the manufacturer by the	
OTHER MATERIAL NOTES: Polypropyle	ene film is used as the bottom surfacin	g material.			
POLYPROPYLENE (POLYPROPYLEN	IE)			ID: 9003-07-0	
HAZARD SCREENING METHOD: Ph	aros Chemical and Materials Library	HAZARD SO	CREENING D	DATE: 2021-02-11	
%: 100.0000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Anti-adhesive agent	
HAZARD TYPE	AGENCY AND LIST TITLES	WA	RNINGS		
None found			No wai	rnings found on HPD Priority Hazard Lists	
SUBSTANCE NOTES: BOPP film.					
1					
COLORED SAND	%: 0.2000				
MATERIAL THRESHOLD: 1000 ppm	RESIDUALS AND IMPURITIES CONS	IDERED: No	MATERI	AL TYPE: Geologically Derived Material	
RESIDUALS AND IMPURITIES NOTES: materials suppliers.	Residuals were not considered because	se informatio	n could not b	be disclosed to the manufacturer by the	
OTHER MATERIAL NOTES: Colored sand is used to generate lay lines on top surface of this product.					

0	UA	R.	ΤZ

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2021-02-11	
%: 98.0000 - 99.0000	GS: <b>LT-1</b>	RC: None NANO: No SUBSTANCE ROLE: Dye	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
CAN	IARC	Group 1 - Agent is Carcinogenic to humans	
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen	
CAN	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure rou	
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	МАК	Carcinogen Group 1 - Substances that cause cancer in man	
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: Residuals were not considered because information could not be disclosed to the manufacturer by the materials suppliers.

2-(2-BUTOXYETHOXY)ETHANOL ID: 112-34-				
HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SC	REENING DATE:	2021-02-11
%: <b>0.2000</b>	GS: <b>LT-P1</b>	RC: None	NANO: No	SUBSTANCE ROLE: Dye
HAZARD TYPE	AGENCY AND LIST TITLES	WARI	NINGS	
EYE	EU - GHS (H-Statements)	H319 - Causes serious eye irritation		eye irritation
END	TEDX - Potential Endocrine Disruptors	Poten	tial Endocrine Di	sruptor

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

TRIETHOXY(ETHYL)SILANE				ID: 78-07-9
HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCR	EENING DATE:	2021-02-11
%: 0.1000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Dye
HAZARD TYPE	AGENCY AND LIST TITLES	WARNI	NGS	
None found			No warnings f	ound on HPD Priority Hazard Lists

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

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	ISSUE DATE: 2019-02- 28	EXPIRY DATE:	CERTIFIER OR LAB: N/A
CERTIFICATE URL:			

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

#### MANAGEMENT ISO 9001:2015 Quality management systems **CERTIFYING PARTY: Third Party** ISSUE DATE: 2018-05-EXPIRY DATE: 2021-CERTIFIER OR LAB: SGS ICS APPLICABLE FACILITIES: Facilities covered by this 28 05-07 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/wpcontent/uploads/2015/05/SOPREMA-certificat-iso-9001v2-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 and Chilliwack.

MANAGEMENT	ISO 14001:2015 Environmental management systems		
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Facilities covered by this 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-iso-14001- v2-ENG.pdf	ISSUE DATE: 2018-05- 28	EXPIRY DATE: 2021- 05-07	CERTIFIER OR LAB: SGS ICS

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 and Chilliwack.

MANAGEMENT

OHSAS-18001 Occupational Health and Safety Assessment Standard

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

# 😑 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 FLAM 180. 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

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

to a LT-1 or LTP1 score.)

NoGS No GreenScreen.

LT-UNK List Translator Benchmark Unknown (the chemical is

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

present on at least one GreenScreen Specified List, but the

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)

#### **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

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### Other Terms:

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

#### **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.