# SOPRALENE FLAM 250 GR by Soprema

### Health Product Declaration v2.1.1

created via: HPDC Online Builder

### CLASSIFICATION: 07 13 52

**PRODUCT DESCRIPTION:** SOPRALENE FLAM 250 GR is a SBS modified-bitumen cap sheet roof membrane. It is reinforces with a non-woven polyester mat and its surface is covered with mineral granules.

## 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

1,000 ppm

C Other

C Per GHS SDS

C Per OSHA MSDS

### **Residuals/Impurities**

Residuals/Impurities Considered in 2 of 5 Materials

Explanation(s) provided for Residuals/Impurities?

### All Substances Above the Threshold Indicated Are:

Characterized O Yes Ex/SC O Yes O No % weight and role provided for all substances.

Screened O Yes Ex/SC O Yes O 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 ] STANDARD ROOFING GRANULES [ FELDSPAR LT-UNK | RES QUARTZ LT-1 | CAN CERAMIC MATERIALS AND WARES, CHEMICALS LT-P1 | MUL TITANIUM DIOXIDE LT-1 | CAN | END DISTILLATES (PETROLEUM), HYDROTREATED (MILD) HEAVY NAPHTHENIC (9CI) LT-1 | PBT | CAN | MUL ] 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 ] POLYESTER MAT [ POLYESTER FIBERS NoGS ] POLYPROPYLENE FILM [POLYPROPYLENE LT-UNK]

## VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

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 could not be considered for all materials as information was not provided to the manufacturer by raw materials suppliers. The precise composition of the SBS-modified bitumen mixture was not disclosed to protect proprietary information; ranges were given.

### 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?

No

PREPARER: Self-Prepared VERIFIER: VERIFICATION #: SCREENING DATE: 2019-08-06 PUBLISHED DATE: 2019-08-06 EXPIRY DATE: 2022-08-06 This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

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

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.1.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-1-standard

### **SBS-MODIFIED BITUMEN MIXTURE**

%: 48.40

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 SBS-modified bitumen is composed of different substances blended to a homogeneous mixture.

AZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCF	REENING DATE: 2019-08-06	
45.00 - 55.00	GS: <b>LT-1</b>	RC: None	NANO: No ROLE: Main waterproofin	g compound
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
CANCER	IARC		Group 2b - Possibly carcinogenic to human	าร
CANCER	CA EPA - Prop 65		Carcinogen	
CANCER	US CDC - Occupational Carcinoger	าร	Occupational Carcinogen	
CANCER	IARC		Group 2B - Possibly carcinogenic to huma occupational sources	ns - inhaled fror
CANCER	МАК		Carcinogen Group 3B - Evidence of carcine but not sufficient for classification	ogenic effects
SUBSTANCE NOTES: Exact p	ercentage not disclosed to protect proprie	etary informa	tion.	

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-06		
%: 35.00 - 50.00	GS: LT-UNK	RC: None NANO: No ROLE: Mineral stabilizer and harden	ıer	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lis	sts	

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

STYRENE BUTADIENE RUBBER (SBR) (STYRENE BUTADIENE ID: 9003-55-8 RUBBER (SBR))					
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2019-08-06					
%: 5.00 - 10.00	GS: LT-UNK	RC: None	NANO: No	ROLE: Polymeric modifier for adhesion and heat resistance	
HAZARD TYPE	AGENCY AND LIST TITLES		WARN	INGS	
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	HAZAF	RD SCREEN	ING DATE: 2019-	08-06
%: Impurity/Residual	GS: <b>LT-P1</b>	RC: N	one	NANO: <b>NO</b>	ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES		WARNING	S	
ACUTE AQUATIC	EU - GHS (H-Statements)		H400 - Y	Very toxic to aqu	uatic life
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)		H220 -	Extremely flamm	nable gas
MAMMALIAN	EU - GHS (H-Statements)		H330 -	Fatal if inhaled	
ENDOCRINE	TEDX - Potential Endocrine Disruptors		Potentia	al Endocrine Dis	ruptor
MULTIPLE	German FEA - Substances Hazardous to Waters		Class 2	- Hazard to Wat	ters
MAMMALIAN	US EPA - EPCRA Extremely Hazardous Substances		Extreme	ely Hazardous S	ubstances

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

NICKEL (NICKEL)				ID: <b>7440-02-0</b>
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREI	ENING DATE: 2019	-08-06
%: Impurity/Residual	GS: <b>LT-1</b>	RC: None	NANO: <b>NO</b>	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	МАК	Carcinogen Group 1 - Substances that cause cancer in man
RESPIRATORY	МАК	Sensitizing Substance Sah - Danger of airway & skin sensitization

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

VANADIUM (VANADIUM)				ID: 7440-62-2
HAZARD SCREENING METHOD: P	naros Chemical and Materials Library	HAZARD SO	REENING DATE: 2019	-08-06
%: Impurity/Residual	GS: <b>LT-1</b>	RC: None	NANO: <b>NO</b>	ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES	W	ARNINGS	
MULTIPLE	German FEA - Substances Hazardous to Waters	С	ass 3 - Severe Haza	rd to Waters
CANCER	МАК		arcinogen Group 2 - an	Considered to be carcinogenic for
GENE MUTATION	МАК	G	erm Cell Mutagen 2	
SUBSTANCE NOTES: Vanadium may be present as an impurity in asphalt.				

LEAD (LEAD)				ID: <b>7439-92-1</b>
HAZARD SCREENING METHOD: Pharos Chemic	al and Materials Library	HAZARD SCREE	NING DATE: 2019-	-08-06
%: Impurity/Residual	GS: <b>LT-1</b>	RC: None	NANO: <b>NO</b>	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	РВТ
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
РВТ	US EPA - Toxics Release Inventory PBTs	РВТ
REPRODUCTIVE	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
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	МАК	Carcinogen Group 2 - Considered to be carcinogenic for man
CANCER	GHS - Korea	Carcinogenicity - Category 1 [H350 - May cause cancer]
REPRODUCTIVE	GHS - Korea	Reproductive toxicity - Category 1 [H360 - May damage fertility or the unborn child]
REPRODUCTIVE	GHS - New Zealand	6.8A - Known or presumed human reproductive or developmental toxicants
REPRODUCTIVE	GHS - Japan	Toxic to reproduction - Category 1A
GENE MUTATION	МАК	Germ Cell Mutagen 3a
REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1A

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: 2019-08-06	
%: Impurity/Residual	GS: <b>LT-1</b>	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	
РВТ	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action	
CANCER	МАК	Carcinogen Group 1 - Substances that cause cancer in man	

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

NAPHTHALENE (NAPHTHALENE)				ID: <b>91-20-3</b>
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-06		
%: Impurity/Residual	GS: <b>BM-1</b>	RC: None	NANO: <b>NO</b>	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
РВТ	US EPA - Priority PBTs (NWMP)	Priority PBT
РВТ	WA DoE - PBT	РВТ
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
РВТ	US EPA - Toxics Release Inventory PBTs	РВТ
РВТ	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	МАК	Carcinogen Group 1 - Substances that cause cancer in man
CANCER	МАК	Carcinogen Group 2 - Considered to be carcinogenic for man

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

### STANDARD ROOFING GRANULES

%: 28.70

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: Mineral granules are used as top surfacing of SOPRALENE FLAM 250 GR and are responsible for UV protection of the modified bitumen compound.

FELDSPAR				ID: <b>68476-25-5</b>
HAZARD SCREENING METHOD: Pharos	Chemical and Materials Library	HAZARD SCREENING DATE: 2019-08-06		
%: <b>65.00</b>	GS: LT-UNK	RC: None	NANO: <b>No</b>	ROLE: Mineral base for reflective granules

AGENCY AND LIST TITLES

AOEC - Asthmagens

WARNINGS

Asthmagen (Rs) - sensitizer-induced

RESPIRATORY

SUBSTANCE NOTES: Granules are naturally occuring stones based of various minerals. They are crushed and sized appropriately.

QUARTZ			id: <b>14808-60-</b>			
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2019-08-06			
%: <b>25.00</b>	GS: <b>LT-1</b>	RC: None	e NANO: No ROLE: Secondary component of granules			
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS			
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans				
CANCER	US CDC - Occupational Carcinogen	os Occupational Carcinogen				
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure r				
CANCER	IARC		Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources			
CANCER	US NIH - Report on Carcinogens		Known to be Human Carcinogen (respirable size - occupational setting)			
CANCER	МАК		Carcinogen Group 1 - Substances that cause cancer in man			
CANCER	GHS - New Zealand		6.7A - Known or presumed human carcinogens			
CANCER	GHS - Japan		Carcinogenicity - Category 1A			
CANCER	GHS - Australia		H350i - May cause cancer by inhalation			

SUBSTANCE NOTES: Granules are naturally occuring stones based of various minerals. They are crushed and sized appropriately.

CERAMIC MATERIALS AND WARES, CHEMICALS					
HAZARD SCREENING METHOD	• Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2019-08-06			
%: <b>2.00</b>	GS: <b>LT-P1</b>	RC: None NANO: No ROLE: Minor ingredient in granule stone			
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
MULTIPLE	German FEA - Substances Hazardous Waters	to Class 3 - Severe Hazard to Waters			
SUBSTANCE NOTES: Gran	ules are naturally occuring stones based of vari	ous minerals. They are crushed and sized appropriately.			
TITANIUM DIOXIDE		id: <b>13463-67-7</b>			

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-06				
%: <b>0.10</b>	GS: <b>LT-1</b>	RC: None	ROLE: Color pigment			
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS				
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen				
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route				
CANCER	IARC	Group 2B - Possibly carcinogenic to humans - inhaled front occupational sources				
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor				
CANCER	МАК	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value				
CANCER	МАК	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels				

SUBSTANCE NOTES: Granules are naturally occuring stones which are coated with pigments to provide a distinct color.

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

ID: 64742-52-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-06				
%: Impurity/Residual	GS: <b>LT-1</b>	RC: None NANO: No ROLE: Impurity/Residual				
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS				
РВТ	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTH) humans				
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer				
CANCER	EU - REACH Annex XVII CMRs	Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man				
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant				
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters				
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence				
CANCER	GHS - Japan	Carcinogenicity - Category 1A				
CANCER	GHS - Australia	H350 - May cause cancer				

SUBSTANCE NOTES: Oil is used as a lubricant in the process.

### SATURANT FOR POLYESTER REINFORCEMENT

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 (A	SPHALT, OXIDIZED)			ID: <b>64742-93</b>
HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCR	REENING DATE: 2	019-08-06
%: 100.00	GS: <b>LT-1</b>	RC: None	NANO: <b>NO</b>	ROLE: Saturation of reinforcing mat
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
CANCER	IARC		Group 2a - Age	nt is probably Carcinogenic to humans
CANCER	CA EPA - Prop 65		Carcinogen	
CANCER	US CDC - Occupational Carcinogens	3	Occupational C	Carcinogen
CANCER	IARC		Group 2B - Pos occupational se	ssibly carcinogenic to humans - inhaled from ources
CANCER	МАК		•	oup 3B - Evidence of carcinogenic effects nt for classification

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

AZARD SCREENING METHOD: Pharos	Chemical and Materials Library	HAZARD SCRE	ENING DATE: 2019	-08-06
: Impurity/Residual	GS: <b>LT-P1</b>	RC: None	NANO: <b>NO</b>	ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
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	Poter	ntial Endocrine Di	sruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters		
MAMMALIAN	US EPA - EPCRA Extremely Hazardous Substances	Extre	mely 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: 2019-08-06

%: Impurity/Residual	GS: <b>LT-1</b>	rc: <b>No</b>	one	NANO: <b>NO</b>	ROLE: Impurity/Residual	
HAZARD TYPE	AGENCY AND LIST TITLES		WARNING			
RESPIRATORY	AOEC - Asthmagens		Asthmagen (Rs) - sensitizer-induced			
CANCER	IARC		Group	1 - Agent is Car	cinogenic to humans	
CANCER	IARC		Group	2b - Possibly ca	arcinogenic to humans	
CANCER	CA EPA - Prop 65		Carcino	ogen		
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 a	Illergic skin reaction	
CANCER	EU - GHS (H-Statements)		H351 -	Suspected of c	ausing cancer	
ORGAN TOXICANT	EU - GHS (H-Statements)		H372 - Causes damage to organs through prolonged repeated exposure			
MULTIPLE	German FEA - Substances Hazardous to Waters	)	Class 2 - Hazard to Waters			
CANCER	МАК		Carcinogen Group 1 - Substances that cause cancer in man			
RESPIRATORY	МАК		Sensitiz sensitiz		Sah - Danger of airway & skin	

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

### VANADIUM (VANADIUM)

ID: 7440-62-2

IZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-06				
%: Impurity/Residual	GS: <b>LT-1</b>	RC: None	NANO: <b>NO</b>	ROLE: Impurity/Residual		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS				
MULTIPLE	German FEA - Substances Hazardous to Waters	to Class 3 - Severe Hazard to Waters				
CANCER	МАК	Carcinogen Group 2 - Considered to be carcinog man				
GENE MUTATION	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

%: Impurity/Residual	GS: <b>LT-1</b>	rc: Non	NANO: NO	ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES	N	WARNINGS	
DEVELOPMENTAL	G&L - Neurotoxic Chemicals	I	Developmental Neuro	toxicant
CANCER	US EPA - IRIS Carcinogens		(1986) Group B2 - Pro	bable human Carcinogen
CANCER	IARC		Group 2a - Agent is pr	obably Carcinogenic to humans
CANCER	IARC	(	Group 2b - Possibly c	arcinogenic to humans
CANCER	CA EPA - Prop 65	(	Carcinogen	
DEVELOPMENTAL	CA EPA - Prop 65		Developmental toxicit	y
РВТ	US EPA - Priority PBTs (NWMP)		Priority PBT	
РВТ	WA DoE - PBT		PBT	
REPRODUCTIVE	CA EPA - Prop 65	I	Reproductive Toxicity	- Female
REPRODUCTIVE	CA EPA - Prop 65	I	Reproductive Toxicity	- Male
CANCER	US NIH - Report on Carcinogens	I	Reasonably Anticipate	ed to be Human Carcinogen
РВТ	US EPA - Toxics Release Inventory PBTs	l	PBT	
REPRODUCTIVE	EU - SVHC Authorisation List	-	Toxic to reproduction	- Candidate list
РВТ	OSPAR - Priority PBTs & EDs & equivalent concern		PBT - Chemical for Pr	iority Action
РВТ	OR DEQ - Priority Persistent Pollutants	l	Priority Persistent Pol	utant - Tier 1
DEVELOPMENTAL	US NIH - Reproductive & Developmental Monographs		Clear Evidence of Adv	erse Effects - Developmental Toxicity
REPRODUCTIVE	US NIH - Reproductive & Developmental Monographs		Clear Evidence of Adv	erse Effects - Reproductive Toxicity
REPRODUCTIVE	EU - GHS (H-Statements)		H360FD - May damag child	e fertility. May damage the unborn
DEVELOPMENTAL	EU - GHS (H-Statements)	l	H362 - May cause har	m to breast-fed children
REPRODUCTIVE	EU - REACH Annex XVII CMRs			Category 1 - Substances known to Developmental Toxicity in humans
MULTIPLE	ChemSec - SIN List		CMR - Carcinogen, M	utagen &/or Reproductive Toxicant
ENDOCRINE	TEDX - Potential Endocrine Disruptors	l	Potential Endocrine D	isruptor
CANCER	МАК		Carcinogen Group 2 - man	Considered to be carcinogenic for
CANCER	GHS - Korea		Carcinogenicity - Cate	egory 1 [H350 - May cause cancer]
REPRODUCTIVE	GHS - Korea		Reproductive toxicity fertility or the unborn	- Category 1 [H360 - May damage child]
REPRODUCTIVE	GHS - New Zealand		6.8A - Known or presu developmental toxica	imed human reproductive or hts
REPRODUCTIVE	GHS - Japan	-	Toxic to reproduction	- Category 1A
GENE MUTATION	МАК		Germ Cell Mutagen 3a	

REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1A
DEVELOPMENTAL	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 H IYDROCARBONS)	HYDROCARBONS (POLYCYCLIC AROMATIC	id: <b>130498-29-2</b>
AZARD SCREENING METHOD: Ph	aros Chemical and Materials Library	HAZARD SCREENING DATE: 2019-08-06
i: Impurity/Residual	GS: <b>LT-1</b>	RC: None NANO: No ROLE: Impurity/Residual
6: Impurity/Residual	GS: LT-1	RC: None NANO: No ROLE: Impurity/Residual
		······
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
HAZARD TYPE PBT	AGENCY AND LIST TITLES	WARNINGS PBT
HAZARD TYPE PBT CANCER	AGENCY AND LIST TITLES WA DOE - PBT US NIH - Report on Carcinogens	WARNINGS PBT Reasonably Anticipated to be Human Carcinogen

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

NAPHTHALENE (NAPHTHALENE)					
HAZARD SCREENING METHOD: Pharos	HAZARD SCREENING DATE: 2019-08-06				
%: Impurity/Residual	GS: <b>BM-1</b>	RC: None	NANO: <b>NO</b>	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
РВТ	US EPA - Priority PBTs (NWMP)	Priority PBT
РВТ	WA DoE - PBT	РВТ
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
РВТ	US EPA - Toxics Release Inventory PBTs	РВТ
РВТ	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	МАК	Carcinogen Group 1 - Substances that cause cancer in man
CANCER	МАК	Carcinogen Group 2 - Considered to be carcinogenic for man

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

### **POLYESTER MAT**

%: 5.40

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 FIBERS				ID: <b>80595-68-2</b>	
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-06			
%: <b>100.00</b>	GS: NoGS	RC: None	NANO: <b>No</b>	ROLE: Carrier material responsible for mechanical properties	
HAZARD TYPE	AGENCY AND LIST TITLES		WARN	IINGS	
None found				No warnings found on HPD Priority Hazard Lists	
SUBSTANCE NOTES: Polyest	er fibres in a non-woven configuration.				

### **POLYPROPYLENE FILM**

%: 0.10

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: 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: 2019-08-06			
%: 100.00	GS: LT-UNK	RC: None	NANO: <b>No</b>	ROLE: Surface material - burns when membrane is installed	
HAZARD TYPE	AGENCY AND LIST TITLES		WARNING	S	
None found				No warnings found on HPD Priority Hazard Lists	

SUBSTANCE NOTES: BOPP film.

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	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	NAGEMENT ISO 9001:2015 Quality 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; 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 nu	ISSUE DATE: 2018- 05-28	EXPIRY DATE: 2021- 05-07	CERTIFIER OR LAB: SGS ICS
GERTIFICATION AND COMPLIANCE NOTES: Gertificate no		oro. Annough all the	plants they above die

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 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
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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.

MANAGEMENT	ENT OHSAS-18001 Occupational Health and Safety Assessme			
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/wp- content/uploads/2015/05/SOPREMA-certificat- ohsas-18001-v2-ENG.pdf	ISSUE DATE: 2018- 05-28	EXPIRY DATE: 2021- 05-07	CERTIFIER OR LAB: SGS ICS	

CERTIFICATION AND COMPLIANCE NOTES: Certificate number FR18/81842817. 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.

OTHER	FM 4470		
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Drummondville, Chilliwack,	ISSUE DATE: 2012- 01-01	EXPIRY DATE:	CERTIFIER OR LAB: FM Approvals (Factory Mutual)
Wadsworth and Gulfport.			

CERTIFICATION AND COMPLIANCE NOTES: This product is present in a large number of roofing assemblies tested for resistance to wind uplift. An example is assembly # 241138-195816-0 found in ROOFNAV. These listings are maintained through periodic audits from FM in the SOPREMA plants.

CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Drummondville, Chilliwack,	ISSUE DATE: 2012- 09-27	EXPIRY DATE: 2020- 10-19	CERTIFIER OR LAB: EXP services	
Wadsworth and Gulfport.	00 21			
certificate url: https://www.soprema.ca/wp-				
content/uploads/2018/02/SOPI-204337-12-				
Soprarock-DD-Plus-over-Soprarock-DD-Plus-				
cold-applied-PUB-DRS-349011-SIGN.pdf				

CERTIFICATION AND COMPLIANCE NOTES: This product is present in a large number of roofing assemblies tested for resistance to wind uplift. An example is assembly SOPI-204337-12.

### 🛨 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.

### SBS-MODIFIED BITUMEN BASE SHEET

HPD URL: No HPD Available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

SOPRALENE FLAM 250 GR can be installed over any suitable SBS base sheet such as SOPRALENE FLAM 180.

**SOPRALENE FLAM 180** 

HPD URL: http://hpdrepository.hpd-collaborative.org

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

SOPRALENE FLAM 180 is one of numerous possible base sheets over which SOPRALENE FLAM 250 GR can be installed.

## 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

### 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)

### **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.

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

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)