SOPRALENE FLAM 250 GR by Soprema

Health Product Declaration v2.2

created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: 21265

CLASSIFICATION: 07 52 16.13 Torch-Applied Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing 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.

> Residuals/Impurities Residuals/Impurities

Explanation(s) provided

Considered in 2 of 5 Materials



Section 1: Summary

Nested Method / Material Threshold

CONTENT INVENTORY

Inventory Reporting Format Nested Materials Method C Basic Method

Threshold Disclosed Per

Material C Product

Th	reshold level
0	100 ppm
0	1,000 ppm

Per GHS SDS

Other

for Residuals/Impurities? • Yes • No

111	Substances	Ληρικο	tho	Throchold	Indicated	
Α//	Substances	ADOVE	m	THESHOLD	muicaleu	А

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

 ○ Yes Ex/SC Yes No. **Screened**

All substances screened using Priority Hazard Lists with results disclosed

Identified ○ Yes Ex/SC Yes 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]

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.

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?

PREPARER: Self-Prepared

C Yes
No

VERIFIER: VERIFICATION #: SCREENING DATE: 2019-08-06 PUBLISHED DATE: 2020-08-05 EXPIRY DATE: 2022-08-06



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

SBS-MODIFIED BITUMEN MIXTURE %: 48.4000

MATERIAL THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

MATERIAL TYPE: Polymeric Material

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

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

ASPHALT (ASPHALT)				ID: 8052-42-4
HAZARD SCREENING METHOD: Pharo	s Chemical and Materials Library	HAZARD SO	CREENING DATE: 20	019-08-06
%: 45.0000 - 55.0000	GS: LT-1	RC: None	nano: No	SUBSTANCE ROLE: Water resistance
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
CANCER	IARC		Group 2b - Pos	sibly carcinogenic to humans
CANCER	CA EPA - Prop 65	CA EPA - Prop 65		
CANCER	US CDC - Occupational Carcinogen	s	Occupational C	arcinogen
CANCER	IARC		Group 2B - Pos occupational so	sibly carcinogenic to humans - inhaled from ources
CANCER	MAK		•	oup 3B - Evidence of carcinogenic effects

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 SCREE	HAZARD SCREENING DATE: 2019-08-06		
%: 35.0000 - 50.0000	GS: LT-UNK	RC: None	nano: No	SUBSTANCE ROLE: Filler	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
None found		N	o warnings four	nd on HPD Priority Hazard Lists	

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

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

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCRE	HAZARD SCREENING DATE: 2019-08-06		
%: 5.0000 - 10.0000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Polymer species	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	as .		
None found			No warn	ings found on HPD Priority Hazard Lists	

HYDROGEN SULFIDE (HYDROGEN SULFIDE)

ID: 7783-06-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-06		019-08-06	
%: Impurity/Residual	GS: LT-P1	RC: None	NANO: No	SUBSTANCE 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 Disruptor	rs	Potential Endocrine Disruptor		
MULTIPLE	German FEA - Substances Hazardous to Waters		Class 2 - Hazard to Waters		
MAMMALIAN	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 SCRE	ENING DATE: 20	019-08-06
%: Impurity/Residual	GS: LT-1	RC: None	nano: No	SUBSTANCE 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.

VANADIUM (VANADIUM)	ID: 7440-62-2
---------------------	----------------------

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-06			
%: Impurity/Residual	GS: LT-1	RC: None	nano: No	SUBSTANCE ROLE: Impurity/Residual	
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS		
MULTIPLE	German FEA - Substances Hazardo Waters	German FEA - Substances Hazardous to Waters		Class 3 - Severe Hazard to Waters	
CANCER	MAK		Carcinogen Gro	oup 2 - Considered to be carcinogenic for	
GENE MUTATION	MAK		Germ Cell Muta	igen 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 SCREENING DATE: 2019-08-06

RC: None

NANO: **No**

GS: LT-1

%: Impurity/Residual

SUBSTANCE ROLE: Impurity/Residual

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
DEVELOPMENTAL	G&L - Neurotoxic Chemicals	Developmental Neurotoxicant
CANCER	US EPA - IRIS Carcinogens	(1986) Group B2 - Probable human Carcinogen
CANCER	IARC	Group 2a - Agent is probably Carcinogenic to humans
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity
PBT	US EPA - Priority PBTs (NWMP)	Priority PBT
PBT	WA DoE - PBT	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
PBT	US EPA - Toxics Release Inventory PBTs	PBT
REPRODUCTIVE	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
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	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	MAK	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 HYDROCARBONS (POLYCYCLIC AROMATIC HYDROCARBONS)

ID: 130498-29-2

HAZARD SCREENING METHOD: Phar	os Chemical and Materials Library	HAZARD SCREENING DATE: 2019-08-06
%: Impurity/Residual	GS: LT-1	RC: None NANO: No SUBSTANCE 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 - 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 a	and Materials Library	HAZARD SCRE	ENING DATE: 20	19-08-06
%: Impurity/Residual	GS: BM-1	RC: None	nano: No	SUBSTANCE 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.

STANDARD ROOFING GRANULES %: 28.7000

MATERIAL THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No MATERIAL TYPE: Geologically Derived Material

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

OTHER MATERIAL NOTES: 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: 68476-25-5
HAZARD SCREENING METHO	D: Pharos Chemical and Materials Library	HAZARD SCREI	ENING DATE: 201	9-08-06
%: 65.0000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Insulator

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced

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

QUARTZ		ID: 14808-60-7
HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2019-08-06
%: 25.0000	gs: LT-1	RC: None NANO: No SUBSTANCE ROLE: Insulator
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
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	MAK	Carcinogen Group 1 - Substances that cause cancer in man
CANCER	GHS - New Zealand	6.7A - Known or presumed human carcinogens

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

Carcinogenicity - Category 1A

H350i - May cause cancer by inhalation

CERAMIC MATERIALS AND WARES, CHEMICALS

GHS - Japan

GHS - Australia

ID: **66402-68-4**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-06			
%: 2.0000	GS: LT-P1	RC: None	nano: No	SUBSTANCE ROLE: Insulator	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 -	Severe Hazaro	to Waters	

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

TITANIUM DIOXIDE ID: 13463-67-7

CANCER

CANCER

HAZARD SCREENING METHOD: Phare	os Chemical and Materials Library	HAZARD SCREENING DATE: 2019-08-06
%: 0.1000	gs: LT-1	RC: None NANO: No SUBSTANCE ROLE: Pigment
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 2B - Possibly carcinogenic to humans - inhaled fron occupational sources
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
CANCER	MAK	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: Pha	aros Chemical and Materials Library	HAZARD SCREENING DATE: 2019-08-06
%: Impurity/Residual	gs: LT-1	RC: None NANO: No SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTH) to 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

 $\mbox{\scriptsize SUBSTANCE}$ NOTES: Oil is used as a lubricant in the process.

SATURANT FOR POLYESTER REINFORCEMENT

%: 17.3000

RESIDUALS AND IMPURITIES

CONSIDERED: Yes

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.

 ${\scriptsize \texttt{SUBSTANCE}\ NOTES:}\ \textbf{Oxidized asphalt is one option for reinforcement saturation.}$

ASPHALT, OXIDIZED (ASPHALT, OXIDIZED)

ID: 64742-93-4

HAZARD SCREENING METHOD: F	Pharos Chemical and Materials Library	HAZARD SCRE	RD SCREENING DATE: 2019-08-06		
%: 100.0000	gs: LT-1	RC: None	nano: No	SUBSTANCE ROLE: Water resistance	
HAZARD TYPE	AGENCY AND LIST TITLES	W	ARNINGS		
CANCER	IARC	G	roup 2a - Agen	nt is probably Carcinogenic to humans	
CANCER	CA EPA - Prop 65	C	arcinogen		
CANCER	US CDC - Occupational Carcinogens	s 0	ccupational Ca	arcinogen	
CANCER	IARC		roup 2B - Poss ecupational so	sibly carcinogenic to humans - inhaled from urces	
CANCER	MAK		•	up 3B - Evidence of carcinogenic effects	

HYDROGEN SULFIDE (HYDROGEN SULFIDE)

ID: 7783-06-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-06			
%: Impurity/Residual	gs: LT-P1	RC: None	nano: No	SUBSTANCE 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 Disruptor	rs	Potential Endocrine Disruptor		
MULTIPLE	German FEA - Substances Hazardou Waters	s to	Class 2 - Hazard to Waters		
MAMMALIAN	US EPA - EPCRA Extremely Hazardo Substances	us	Extremely Haza	rdous Substances	

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

NICKEL (NICKEL) ID: 7440-02-0

	nemical and Materials Library	INCAND 30	REENING DATE: 201	19-08-06
%: Impurity/Residual	GS: LT-1	RC: None	nano: No	SUBSTANCE 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 - Poss	ibly carcinogenic to humans
CANCER	CA EPA - Prop 65		Carcinogen	
CANCER	US CDC - Occupational Carcinogens		Occupational Ca	arcinogen
CANCER	US NIH - Report on Carcinogens		Known to be a h	uman Carcinogen
CANCER	US NIH - Report on Carcinogens		Reasonably Anti	cipated to be Human Carcinogen
SKIN SENSITIZE	EU - GHS (H-Statements)		H317 - May caus	se an allergic skin reaction
CANCER	EU - GHS (H-Statements)		H351 - Suspecte	ed of causing cancer
ORGAN TOXICANT	EU - GHS (H-Statements)		H372 - Causes d	lamage to organs through prolonged or ure
MULTIPLE	German FEA - Substances Hazardous Waters	s to	Class 2 - Hazard	to Waters
CANCER	MAK		Carcinogen Grouman	up 1 - Substances that cause cancer in
RESPIRATORY	MAK		Sensitizing Subs	stance Sah - Danger of airway & skin

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 SCI	REENING DATE: 20	19-08-06
%: Impurity/Residual	GS: LT-1	RC: None	nano: No	SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
MULTIPLE	German FEA - Substances Hazardo Waters	ous to	Class 3 - Severe	e Hazard to Waters
CANCER	MAK		Carcinogen Gro	oup 2 - Considered to be carcinogenic for
GENE MUTATION	MAK		Germ Cell Muta	gen 2

LEAD (LEAD) ID: 7439-92-1

HAZARD SCREENING METHOD: Phar	os Chemical and Materials Library	HAZARD SC	REENING DATE: 20	019-08-06
%: Impurity/Residual	GS: LT-1	RC: None	nano: No	SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
DEVELOPMENTAL	G&L - Neurotoxic Chemicals		Developmental	Neurotoxicant
CANCER	US EPA - IRIS Carcinogens		(1986) Group B	2 - Probable human Carcinogen
CANCER	IARC		Group 2a - Age	nt is probably Carcinogenic to humans
CANCER	IARC		Group 2b - Pos	sibly carcinogenic to humans
CANCER	CA EPA - Prop 65		Carcinogen	
DEVELOPMENTAL	CA EPA - Prop 65		Developmental	toxicity
РВТ	US EPA - Priority PBTs (NWMP)		Priority PBT	
PBT	WA DoE - PBT		PBT	
REPRODUCTIVE	CA EPA - Prop 65		Reproductive T	oxicity - Female
REPRODUCTIVE	CA EPA - Prop 65		Reproductive T	oxicity - Male
CANCER	US NIH - Report on Carcinogens		Reasonably An	ticipated to be Human Carcinogen
PBT	US EPA - Toxics Release Inventory	PBTs	PBT	
REPRODUCTIVE	EU - SVHC Authorisation List		Toxic to reprod	luction - Candidate list
РВТ	OSPAR - Priority PBTs & EDs & equ concern	uivalent	PBT - Chemica	I for Priority Action
PBT	OR DEQ - Priority Persistent Polluta	ants	Priority Persiste	ent Pollutant - Tier 1
DEVELOPMENTAL	US NIH - Reproductive & Developm Monographs	nental	Clear Evidence	of Adverse Effects - Developmental Toxicity
REPRODUCTIVE	US NIH - Reproductive & Developm Monographs	nental	Clear Evidence	of Adverse Effects - Reproductive Toxicity
REPRODUCTIVE	EU - GHS (H-Statements)		H360FD - May	damage fertility. May damage the unborn
DEVELOPMENTAL	EU - GHS (H-Statements)		H362 - May cau	use harm to breast-fed children
REPRODUCTIVE	EU - REACH Annex XVII CMRs			duction Category 1 - Substances known to or cause Developmental Toxicity in humans
MULTIPLE	ChemSec - SIN List		CMR - Carcino	gen, Mutagen &/or Reproductive Toxicant
ENDOCRINE	TEDX - Potential Endocrine Disrupt	tors	Potential Endo	crine Disruptor
CANCER	MAK		Carcinogen Gro	oup 2 - Considered to be carcinogenic for
CANCER	GHS - Korea		Carcinogenicity	/ - Category 1 [H350 - May cause cancer]
REPRODUCTIVE	GHS - Korea		Reproductive to fertility or the u	oxicity - Category 1 [H360 - May damage nborn child]
REPRODUCTIVE	GHS - New Zealand		6.8A - Known o	r presumed human reproductive or toxicants
REPRODUCTIVE	GHS - Japan		Toxic to reprod	luction - Category 1A

GENE MUTATION	MAK	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 HYDROCARBONS (POLYCYCLIC AROMATIC HYDROCARBONS)

ID: 130498-29-2

HAZARD SCREENING METHOD: Phare	os Chemical and Materials Library	HAZARD SCREENING DATE: 2019-08-06
%: Impurity/Residual	gs: LT-1	RC: None NANO: No SUBSTANCE 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 - Chemical for Priority Action
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man

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 SCRE	ENING DATE: 20	19-08-06
%: Impurity/Residual	GS: BM-1	RC: None	nano: No	SUBSTANCE 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	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.

POLYESTER MAT %: 5.4000

MATERIAL THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: No

MATERIAL TYPE: Polymeric Material

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

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

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-08-06

ME: 100.0000

GS: NOGS

RC: None NANO: No SUBSTANCE ROLE: Structure component

HAZARD TYPE AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Polyester fibres in a non-woven configuration.

POLYPROPYLENE FILM %: 0.1000

MATERIAL THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

MATERIAL TYPE: Polymeric Material

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

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

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-08-06		
%: 100.0000	GS: LT-UNK	RC: None	nano: No	SUBSTANCE ROLE: Anti-adhesive agent
HAZARD TYPE	AGENCY AND LIST TITLES	V	VARNINGS	
None found			No	warnings found on HPD Priority Hazard List



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

ISSUE DATE: 2019-

02-28

05-28

EXPIRY DATE:

CERTIFIER OR LAB: N/A

CERTIFIER OR LAB: SGS ICS

CERTIFICATE URL:

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

ISSUE DATE: 2018-

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/wpcontent/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-APPLICABLE FACILITIES: Facilities covered by this 05-28 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/wpcontent/uploads/2015/05/SOPREMA-certificatCERTIFIER OR LAB: SGS ICS

05-07

EXPIRY DATE: 2021-

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

CERTIFYING PARTY: Third Party

iso-14001-v2-ENG.pdf

OHSAS-18001 Occupational Health and Safety Assessment Standard

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-certificat**ISSUE DATE: 2018-**EXPIRY DATE: 2021-CERTIFIER OR LAB: SGS ICS 05-28 05-07

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

OTHER FM 4470

CERTIFYING PARTY: Third Party ISSUE DATE: 2012-

Wadsworth and Gulfport.

ohsas-18001-v2-ENG.pdf

CERTIFICATE URL: https://www.roofnav.com

EXPIRY DATE: CERTIFIER OR LAB: FM Approvals APPLICABLE FACILITIES: Drummondville, Chilliwack, 01-01 (Factory Mutual)

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.

OTHER CSA A123.21

CERTIFYING PARTY: Third Party

ISSUE DATE: 2012-

09-27

EXPIRY DATE: 2020-

10-19

CERTIFIER OR LAB: EXP services

APPLICABLE FACILITIES: Drummondville, Chilliwack,

Wadsworth and Gulfport.

CERTIFICATE URL: https://www.soprema.ca/wpcontent/uploads/2018/02/SOPI-204337-12-Soprarock-DD-Plus-over-Soprarock-DD-Pluscold-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: http://hpdrepository.hpd-collaborative.org

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 and **ELASTOPHENE 180 PS.**



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**

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

KEY

Hazard Types

AQU Aquatic toxicity

CAN Cancer

DEV Developmental toxicity

END Endocrine activity

EYE Eye irritation/corrosivity

GEN Gene mutation

GLO Global warming

LAN Land toxicity

MAM Mammalian/systemic/organ toxicity

MUL Multiple

NEU Neurotoxicity

NF Not found on Priority Hazard Lists

OZO Ozone depletion

PBT Persistent, bioaccumulative, and toxic

PHY Physical hazard (flammable or

reactive)

REP Reproductive

RES Respiratory sensitization

SKI Skin sensitization/irritation/corrosivity

UNK Unknown

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)

BM-3 Benchmark 3 (use but still opportunity for improvement)

BM-2 Benchmark 2 (use but search for safer substitutes)

BM-1 Benchmark 1 (avoid - chemical of high concern)

BM-U Benchmark Unspecified (due to insufficient data)

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

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

LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.)

NoGS No GreenScreen.

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

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.