# **COLPHENE BSW V** by Soprema

### **Health Product** Declaration v2.2

created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: 20908 **CLASSIFICATION: 07 13 52** 

PRODUCT DESCRIPTION: COLPHENE BSW V and COLPHENE BSW V 3.0 are self-adhered waterproofing membrane designed for blindside (pre-applied) waterproofing in vertical applications.



### Section 1: Summary

### **Nested Method / Material Threshold**

#### **CONTENT INVENTORY**

**Inventory Reporting Format** Nested Materials Method C Basic Method

**Threshold Disclosed Per** 

Material C Product Threshold level

C 1,000 ppm Per GHS SDS

Other

Residuals/Impurities

Residuals/Impurities Considered in 4 of 7 Materials

Explanation(s) provided for Residuals/Impurities? • Yes • No

All Substances Above the Threshold Indicated Are:

Characterized

O Yes Ex/SC O Yes O No

% weight and role provided for all substances.

**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) BM-1 | DEL | CAN | PBT | REP | MUL | END | GEN POLYCYCLIC AROMATIC HYDROCARBONS (POLYCYCLIC AROMATIC HYDROCARBONS/LT-1 | PBT | CAN NAPHTHALENE (NAPHTHALENE) LT-1 | CAN | PBT | AQU | MUL | END ] SELF-ADHESIVE BITUMEN MIXTURE [ ASPHALT LT-1 | CAN STYRENE BUTADIENE RUBBER (POST-CONSUMER) (STYRENE BUTADIENE RUBBER (SBR)) LT-UNK HYDROGEN SULFIDE LT-P1 | AQU | PHY | MAM | END | M<u>UL *NICKEL*</u> LT-1 | RES | CAN | <u>SKI | M</u>AM | MUL VANADIUM, ELEMENTAL LT-1 | MUL | CAN | GEN LEAD BM-1 | DEL | CAN | PBT | REP | MUL | END | GEN POLYCYCLIC AROMATIC HYDROCARBONS LT-1 | PBT | CAN DISTILLATES (PETROLEUM), HYDROTREATED (MILD) HEAVY NAPHTHENIC (9CI) LT-1 | PBT | CAN | MUL LUBRICATING OILS, PETROLEUM, HYDROTREATED SPENT LT-P1 | CAN GAS OILS, PETROLEUM, HEAVY VACUUM LT-1 | CAN | MUL ] SATURANT FOR POLYESTER REINFORCEMENT [ ASPHALT, OXIDIZED (ASPHALT, OXIDIZED) LT-1 | CAN HYDROGEN SULFIDE (HYDROGEN SULFIDE) LT-P1 | AQU | PHY | MAM | END | MUL NICKEL (NICKEL) LT-1 | RES | CAN | SKI | MAM | MUL VANADIUM (VANADIUM) LT-1 | MUL | CAN | GEN LEAD (LEAD) BM-1 | DEL | 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 ] MINERAL AGGREGATE SURFACING [ FELDSPAR LT-UNK | RES ALUMINUM SILICATE, NATURAL (ALUMINUM SILICATE, NATURAL - FELDSPATH) LT-UNK QUARTZ LT-1 | CAN MICA

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-modifiedbitumen mixture was not disclosed to protect proprietary information; ranges were given.

LT-UNK FERRIC OXIDE BM-1 | CAN SODIUM OXIDE LT-UNK DIPOTASSIUM OXIDE (PRIMARY CASRN IS 12136-45-7) LT-UNK CALCIUM OXIDE (PRIMARY CASRN IS 1305-78-8) (CALCIUM OXIDE) LT-P1 MAGNESIUM OXIDE LT-UNK | CAN ] POLYESTER & GLASS COMPOSITE MAT [ POLYETHYLENE TEREPHTHALATE (PET) LT-UNK NYLON 6 (POST-CONSUMER) (NYLON 6) LT-UNK ] SILICONE-COATED RELEASE FILM [ POLYETHYLENE LT-UNK POLYDIMETHYLSILOXANES (PRIMARY CASRN IS 63148-62-9) LT-P1 | PBT ] COLORED SAND [ QUARTZ LT-1 | CAN 2-(2-BUTOXYETHOXY)ETHANOL LT-P1 | EYE | END TRIETHOXY(ETHYL)SILANE LT-UNK ]

#### **VOLATILE ORGANIC COMPOUND (VOC) CONTENT**

VOC Content data is not applicable for this product category.

#### CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: CDPH Standard Method - N/A

Management: ISO 9001:2015 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?

C Yes

O No

PREPARER: Self-Prepared

VERIFICATION #:

SCREENING DATE: 2020-07-01 PUBLISHED DATE: 2020-07-01 EXPIRY DATE: 2023-07-01



### Section 2: Content in Descending Order of Quantity

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

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

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

#### SBS-MODIFIED BITUMEN MIXTURE %: 54.0000 - 56.0000

MATERIAL THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

MATERIAL TYPE: Polymeric Material

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

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

ASPHALT (ASPHALT)				ID: <b>8052-42-</b>
HAZARD SCREENING METHOD: Pha	ros Chemical and Materials Library	HAZARD SC	020-07-01	
%: 45.0000 - 55.0000	GS: <b>LT-1</b>	RC: None	NANO: <b>No</b>	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		Carcinogen	
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 nt for classification

SUBSTANCE NOTES: Main waterproofing compound. 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: 2020-07-01		
%: <b>35.0000 - 50.0000</b>	GS: LT-UNK	RC: None	nano: <b>No</b>	SUBSTANCE ROLE: Filler	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
None found		N	o warnings four	nd on HPD Priority Hazard Lists	

SUBSTANCE NOTES: Mineral stabilizer and hardener. Exact percentage not disclosed to protect proprietary information.

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCRE	HAZARD SCREENING DATE: 2020-07-01		
%: <b>5.0000 - 10.0000</b>	GS: LT-UNK	RC: None	NANO: <b>No</b>	SUBSTANCE ROLE: Polymer species	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNING	SS		
None found			No warn	ings found on HPD Priority Hazard Lists	

SUBSTANCE NOTES: Polymeric modifier for adhesion and heat resistance. Exact percentage not disclosed to protect proprietary

# HYDROGEN SULFIDE (HYDROGEN SULFIDE)

information.

ID: 7783-06-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZAR		HAZARD SC	HAZARD SCREENING DATE: 2020-07-01			
%: Impurity/Residual	GS: LT-P1	RC: None	NANO: <b>No</b>	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)	EU - GHS (H-Statements)		H220 - Extremely flammable gas		
MAMMALIAN	EU - GHS (H-Statements)		H330 - Fatal if inhaled			
ENDOCRINE	TEDX - Potential Endocrine Disrupto	uptors Potential Endo		crine Disruptor		
MULTIPLE	German FEA - Substances Hazardou Waters	ıs to	Class 2 - Hazar	d to Waters		
MAMMALIAN	US EPA - EPCRA Extremely Hazardo Substances	ous	Extremely Haza	rdous 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: 2020-07-01			
%: Impuri	ty/Residual	GS: <b>LT-1</b>	RC: None	nano: <b>No</b>	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: <b>7440-62-2</b>
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HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-07-01		
%: Impurity/Residual	GS: <b>LT-1</b>	RC: None	nano: <b>No</b>	SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
MULTIPLE	German FEA - Substances Hazardous to Waters		Class 3 - Severe Hazard to Waters	
CANCER	MAK		Carcinogen Group 2 - Considered to be carcinogenic forman	
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 TYPE	AGENCY AND LIST TITLES	WARNINGS
DEVELOPMENTAL	G&L - Neurotoxic Chemicals	Developmental Neurotoxicant
CANCER	US EPA - IRIS Carcinogens	(1986) Group B2 - Probable human Carcinogen
CANCER	IARC	Group 2a - Agent is probably Carcinogenic to humans
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity
РВТ	US EPA - Priority PBTs (NWMP)	Priority PBT
РВТ	WA DoE - PBT	PBT
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Female
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Male
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
РВТ	US EPA - Toxics Release Inventory PBTs	PBT
REPRODUCTIVE	EU - SVHC Authorisation List	Toxic to reproduction - Candidate list
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action
РВТ	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
DEVELOPMENTAL	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Developmental Toxicity
REPRODUCTIVE	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Reproductive Toxicity
REPRODUCTIVE	EU - GHS (H-Statements)	H360FD - May damage fertility. May damage the unborn child
DEVELOPMENTAL	EU - GHS (H-Statements)	H362 - May cause harm to breast-fed children
REPRODUCTIVE	EU - REACH Annex XVII CMRs	Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
CANCER	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 [H360]
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: Pharos	Chemical and Materials Library	HAZARD SCREENING DATE: 2020-07-01
%: Impurity/Residual	GS: <b>LT-1</b>	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 and Materials Library		HAZARD SCREENING DATE: 2020-07-01		
%: Impurity/Residual	GS: LT-1	RC: None	nano: <b>No</b>	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.

#### SELF-ADHESIVE BITUMEN MIXTURE %: 18.0000 - 20.0000

MATERIAL THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

MATERIAL TYPE: Polymeric Material

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

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

ASPHALT ID: 8052-42-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-07-01

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

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

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

# STYRENE BUTADIENE RUBBER (POST-CONSUMER) (STYRENE BUTADIENE RUBBER (SBR))

ID: 9003-55-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCR	HAZARD SCREENING DATE: 2020-07-01		
%: <b>7.0000 - 15.0000</b>	GS: <b>LT-UNK</b>	RC: None	nano: <b>No</b>	SUBSTANCE ROLE: Polymer species	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
None found			No warning	s found on HPD Priority Hazard Lists	

SUBSTANCE NOTES: Polymeric modifier for adhesion and heat resistance. Exact percentage not disclosed to protect proprietary information.

HYDROGEN SULFIDE ID: 7783-06-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-07-01			
%: Impurity/Residual	GS: <b>LT-P1</b>	RC: None	nano: <b>No</b>	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 ir	nhaled	
ENDOCRINE	TEDX - Potential Endocrine Disrupto	tors Potential Endocrine Disruptor		rine Disruptor	
MULTIPLE	German FEA - Substances Hazardo Waters	us to	Class 2 - Hazaro	d to Waters	
MAMMALIAN	US EPA - EPCRA Extremely Hazard Substances	ous	Extremely Haza	rdous Substances	

 $\hbox{\scriptsize {\tt SUBSTANCE}\ NOTES:}\ \textbf{Hydrogen sulfide may be present as impurity in asphalt and petroleum oil.}$ 

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-07-01		
: Impurity/Residual	GS: <b>LT-1</b>	RC: None	NANO: <b>No</b>	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 - Possi	ibly carcinogenic to humans
CANCER	CA EPA - Prop 65		Carcinogen	
CANCER	US CDC - Occupational Carcinogens	s	Occupational Ca	rcinogen
CANCER	US NIH - Report on Carcinogens		Known to be a hu	uman Carcinogen
CANCER	US NIH - Report on Carcinogens		Reasonably Antic	cipated to be Human Carcinogen
SKIN SENSITIZE	EU - GHS (H-Statements)		H317 - May caus	e an allergic skin reaction
CANCER	EU - GHS (H-Statements)		H351 - Suspecte	d of causing cancer
ORGAN TOXICANT	EU - GHS (H-Statements)		H372 - Causes darepeated exposu	amage to organs through prolonged or are
MULTIPLE	German FEA - Substances Hazardon Waters	us to	Class 2 - Hazard	to Waters
CANCER	MAK		Carcinogen Grou	p 1 - Substances that cause cancer in
RESPIRATORY	MAK		Sensitizing Substantial	tance Sah - Danger of airway & skin

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

VANADIUM, ELEMENTAL	ID: <b>7440-62-2</b>
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HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-07-01			
%: Impurity/Residual	GS: <b>LT-1</b>	RC: None	nano: <b>No</b>	SUBSTANCE ROLE: Impurity/Residual	
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS		
MULTIPLE	German FEA - Substances Hazardous to Waters		Class 3 - Severe Hazard to Waters		
CANCER	MAK		Carcinogen Group 2 - Considered to be carcinogenic for man		
GENE MUTATION	MAK		Germ Cell Muta	agen 2	

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

LEAD ID: 7439-92-1

	aros Chemical and Materials Library		REENING DATE: 20		
Impurity/Residual	gs: <b>BM-1</b>	RC: None	nano: <b>No</b>	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		
РВТ	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	
РВТ	US EPA - Toxics Release Inventory	PBTs	PBT		
REPRODUCTIVE	EU - SVHC Authorisation List		Toxic to reprod	uction - Candidate list	
PBT	OSPAR - Priority PBTs & EDs & equipment concern	uivalent	PBT - Chemical	I for Priority Action	
РВТ	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 To		
REPRODUCTIVE	US NIH - Reproductive & Developm Monographs	nental	Clear Evidence of Adverse Effects - Reproductive Toxi		
REPRODUCTIVE	EU - GHS (H-Statements)		H360FD - May o	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 r cause Developmental Toxicity in human	
MULTIPLE	ChemSec - SIN List		CMR - Carcino	gen, Mutagen &/or Reproductive Toxicant	
ENDOCRINE	TEDX - Potential Endocrine Disrupt	tors	Potential Endoc	crine 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 to fertility or the un	oxicity - Category 1 [H360 - May damage nborn child]	
REPRODUCTIVE	GHS - New Zealand		6.8A - Known o developmental	r presumed human reproductive or toxicants	

REPRODUCTIVE	GHS - Japan	Toxic to reproduction - Category 1A [H360]
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

 $\mbox{\scriptsize SUBSTANCE}$  NOTES: Lead may be present as impurity in asphalt.

#### POLYCYCLIC AROMATIC HYDROCARBONS

ID: 130498-29-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-07-01				
%: Impurity/Residual	GS: <b>LT-1</b>	RC: None	nano: <b>No</b>	SUBSTANCE ROLE: Impurity/Residual		
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS			
РВТ	WA DoE - PBT		PBT			
CANCER	US NIH - Report on Carcinogens	US NIH - Report on Carcinogens		Reasonably Anticipated to be Human Carcinogen		
PBT	US EPA - Toxics Release Inventory	US EPA - Toxics Release Inventory PBTs		РВТ		
РВТ	OSPAR - Priority PBTs & EDs & equ concern	uivalent	PBT - Chemical for Priority Action			
CANCER	MAK	MAK		oup 1 - Substances that cause cancer in		

SUBSTANCE NOTES: PAHs may be present as impurity in asphalt.

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

ID: **64742-52-5** 

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	HAZARD SCREENING DATE: 2020-07-01		
%: 0.0000 - 15.0000	gs: <b>LT-1</b>	RC: None	nano: <b>No</b>	SUBSTANCE ROLE: Plasticizer	

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 [H350]
CANCER	GHS - Australia	H350 - May cause cancer

SUBSTANCE NOTES: Plasticizer for adhesion improvement. Exact percentage not disclosed to protect proprietary information.

#### LUBRICATING OILS, PETROLEUM, HYDROTREATED SPENT

ID: 64742-58-1

HAZARD SCREENING METHOD: Pha	ros Chemical and Materials Library	HAZARD SCREE	NING DATE: 202	0-07-01
%: 0.0000 - 12.0000	GS: LT-P1	RC: None	nano: <b>No</b>	SUBSTANCE ROLE: Plasticizer
HAZARD TYPE	AGENCY AND LIST TITLES	WARNI	NGS	
CANCER	GHS - Australia	H350	- May cause ca	ancer

SUBSTANCE NOTES: Plasticizer for adhesion improvement. Exact percentage not disclosed to protect proprietary information.

### GAS OILS, PETROLEUM, HEAVY VACUUM

ID: **64741-57-7** 

HAZARD SCREENING METHOD: Pharos (	Chemical and Materials Library	HAZARD SCREI	ENING DATE: 2020	0-07-01
%: <b>0.0000 - 12.0000</b>	gs: <b>LT-1</b>	RC: None	NANO: <b>No</b>	SUBSTANCE ROLE: Plasticizer

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

SUBSTANCE NOTES: Plasticizer for adhesion improvement. Exact percentage not disclosed to protect proprietary information.

# SATURANT FOR POLYESTER REINFORCEMENT

%: 10.0000 - 12.0000

MATERIAL THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES

 $\label{eq:material type: Other, Asphalt derived from } \mathsf{MATERIAL TYPE: Other, Asphalt derived from }$ 

CONSIDERED: Yes 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.

### ASPHALT, OXIDIZED (ASPHALT, OXIDIZED)

ID: 64742-93-4

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2020-07-01
%: 100.0000	GS: LT-1	RC: None NANO: No SUBSTANCE ROLE: Water resistance
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	IARC	Group 2a - Agent is probably Carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: Saturation of reinforcing mat. Oxidized asphalt is one option for reinforcement saturation.

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

ID: **7440-02-0** 

: Impurity/Residual	GS: <b>LT-P1</b>	RC: None	nano: <b>No</b>	SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
ACUTE AQUATIC	EU - GHS (H-Statements)		H400 - Very tox	ic to aquatic life
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)		H220 - Extreme	ly flammable gas
MAMMALIAN	EU - GHS (H-Statements)		H330 - Fatal if in	nhaled
ENDOCRINE	TEDX - Potential Endocrine Disrupt	ors	Potential Endoc	crine Disruptor
MULTIPLE	German FEA - Substances Hazardo Waters	us to	Class 2 - Hazar	d to Waters
MAMMALIAN	US EPA - EPCRA Extremely Hazard Substances	ous	Extremely Haza	rdous Substances

HAZARD SCREENING METHOD: Pharos Chemical a	and Materials Library	HAZARD SCRE	ENING DATE: 20	20-07-01
%: Impurity/Residual	gs: LT-1	RC: None	NANO: <b>No</b>	SUBSTANCE ROLE: Impurity/Residual

**NICKEL (NICKEL)** 

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.

 $\hbox{\scriptsize {\tt SUBSTANCE}\ NOTES:}\ \textbf{Vanadium\ may\ be\ present\ as\ an\ impurity\ in\ asphalt.}$ 

HAZARD SCREENING METHOD: <b>Ph</b>	aros Chemical and Materials Library	HAZARD SC	REENING DATE: 20	20-07-01
%: Impurity/Residual	GS: <b>LT-1</b>	RC: None	nano: <b>No</b>	SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
MULTIPLE	German FEA - Substances Hazardo Waters	ous to	Class 3 - Sever	e Hazard to Waters
CANCER	MAK		Carcinogen Gro	oup 2 - Considered to be carcinogenic for
GENE MUTATION	MAK		Germ Cell Muta	igen 2

LEAD (LEAD)				ID: <b>7439-92-1</b>
HAZARD SCREENING METHOD: Pharos C	hemical and Materials Library	HAZARD SCRE	ENING DATE: 20	20-07-01
%: Impurity/Residual	GS: <b>BM-1</b>	RC: None	NANO: <b>No</b>	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
РВТ	US EPA - Priority PBTs (NWMP)	Priority PBT
РВТ	WA DoE - PBT	PBT
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Female
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Male
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
РВТ	US EPA - Toxics Release Inventory PBTs	РВТ
REPRODUCTIVE	EU - SVHC Authorisation List	Toxic to reproduction - Candidate list
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action
РВТ	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
DEVELOPMENTAL	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Developmental Toxicity
REPRODUCTIVE	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Reproductive Toxicity
REPRODUCTIVE	EU - GHS (H-Statements)	H360FD - May damage fertility. May damage the unborn child
DEVELOPMENTAL	EU - GHS (H-Statements)	H362 - May cause harm to breast-fed children
REPRODUCTIVE	EU - REACH Annex XVII CMRs	Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
CANCER	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 [H360]
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: Pha	ros Chemical and Materials Library	HAZARD SCREENING DATE: 2020-07-01
%: Impurity/Residual	GS: <b>LT-1</b>	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
PBT	US EPA - Toxics Release Inventory PBTs	PBT
РВТ	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 a	nd Materials Library	HAZARD SCREI	ENING DATE: 202	20-07-01
%: Impurity/Residual	GS: <b>LT-1</b>	RC: None	nano: <b>No</b>	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.

# MINERAL AGGREGATE SURFACING

%: 8.0000 - 9.0000

MATERIAL THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED:

MATERIAL TYPE: Geologically Derived

Yes

Material

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

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

FELDSPAR ID: 68476-25-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-07-01

%: 28.0000 - 32.0000 GS: LT-UNK RC: None NANO: NO SUBSTANCE ROLE: Anti-adhesive agent

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

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

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

ID: 12141-46-7

ID: 14808-60-7

HAZARD SCREENING METHOD: Pha	ros Chemical and Materials Library	HAZARD SCREENING DATE: 2020-07-01
%: 27.0000 - 31.0000	GS: <b>LT-UNK</b>	RC: None NANO: No SUBSTANCE ROLE: Anti-adhesive agent
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

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

HAZARD SCREENING METHOD: Pharos	Chemical and Materials Library	HAZARD SCREENING DATE: 2020-07-01
× 06 0000 25 0000	00 LT 4	Do Name Auto No GUPSTANOS POLE Anti adhesive agent

%: 26.0000 - 35.0000	GS: <b>LT-1</b>	RC: None	NANO: No SUBSTANCE ROLE: Anti-adhesive agent
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
CANCER	GHS - Japan		Carcinogenicity - Category 1A [H350]
CANCER	GHS - Australia		H350i - May cause cancer by inhalation

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

MICA ID: 12001-26-2

**QUARTZ** 

HAZARD SCREENING METHOD: Pha	aros Chemical and Materials Library	HAZARD SCRE	EENING DATE: 20	020-07-01
%: <b>2.0000 - 5.0000</b>	GS: LT-UNK	RC: None	NANO: <b>No</b>	SUBSTANCE ROLE: Anti-adhesive agent
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found			No	warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Sand surfacing component. Mineral aggregate surfacing is composed of natural sand, which is composed of different

FERRIC OXIDE ID: 1309-37-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-07-01		
%: Impurity/Residual	GS: <b>BM-1</b>	RC: None	NANO: <b>No</b>	SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES	١	WARNINGS	
CANCER MAK			•	oup 3B - Evidence of carcinogenic effects of the classification

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

SODIUM OXIDE ID: 1313-59-3

HAZARD SCREENING METHOD: Pha	ros Chemical and Materials Library	HAZARD SCRE	ENING DATE: 20	20-07-01
%: Impurity/Residual	GS: LT-UNK	RC: None	NANO: <b>No</b>	SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES	V	/ARNINGS	
None found			No	warnings found on HPD Priority Hazard Lists

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

#### **DIPOTASSIUM OXIDE (PRIMARY CASRN IS 12136-45-7)**

minerals. Mica is one of these minerals.

ID: 37382-43-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-07-01		
%: Impurity/Residual	GS: <b>LT-UNK</b>	RC: None	NANO: <b>No</b>	SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES	V	/ARNINGS	
None found			No	warnings found on HPD Priority Hazard Lists

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

HAZARD SCREENING METHOD: Pha	ros Chemical and Materials Library	HAZARD SCRE	ENING DATE: 2	020-07-01
%: Impurity/Residual	GS: <b>LT-P1</b>	RC: None	NANO: <b>No</b>	SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES	WA	RNINGS	
None found			No v	varnings found on HPD Priority Hazard Lists

be present as an impurity in natural sand.

SUBSTANCE NOTES: Mineral aggregate surfacing is composed of natural sand, which is composed of different minerals. Calcium oxide may

MAGNESIUM OXIDE				ıD: <b>1309-4</b> 8
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-07-01		
%: Impurity/Residual	GS: <b>LT-UNK</b>	RC: None	nano: <b>No</b>	SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES	V	VARNINGS	
CANCER	MAK		Carcinogen Gro	oup 4 - Non-genotoxic carcinogen with low /BAT levels

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

#### POLYESTER & GLASS COMPOSITE MAT %: 4.0000 - 5.0000

MATERIAL THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

MATERIAL TYPE: Polymeric Material

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

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

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-07-01		
%: <b>50.0000 - 85.0000</b>	GS: <b>LT-UNK</b>	RC: None	NANO: <b>No</b>	SUBSTANCE ROLE: Structure component
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found			N	o warnings found on HPD Priority Hazard Lists

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

#### **NYLON 6 (POST-CONSUMER) (NYLON 6)**

ID: 25038-54-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-07-01		
%: <b>10.0000 - 30.0000</b>	GS: LT-UNK	RC: None	nano: <b>No</b>	SUBSTANCE ROLE: Structure component
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found			No	o warnings found on HPD Priority Hazard Lists

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

#### SILICONE-COATED RELEASE FILM

%: 0.7000 - 1.0000

MATERIAL THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

MATERIAL TYPE: Polymeric Material

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

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

**POLYETHYLENE** ID: 9002-88-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-07-01		
%: <b>95.0000 - 99.0000</b>	GS: LT-UNK	RC: None	nano: <b>No</b>	SUBSTANCE ROLE: Polymer species
HAZARD TYPE	AGENCY AND LIST TITLES	WA	ARNINGS	
None found			No w	varnings found on HPD Priority Hazard Lists

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

#### POLYDIMETHYLSILOXANES (PRIMARY CASRN IS 63148-62-9)

ID: 9006-65-9

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-07-01		
%: 1.0000 - 5.0000	GS: <b>LT-P1</b>	RC: None	nano: <b>No</b>	SUBSTANCE ROLE: Anti-adhesive agent
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
PBT	EC - CEPA DSL		Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans	

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

**COLORED SAND** %: 0.1000 - 0.2000

MATERIAL THRESHOLD: 100 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: Colored sand is used to generate lay lines on top surface of this product.

**QUARTZ** ID: 14808-60-7 HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-07-01

%: 98.0000 - 99.0000 GS: LT-1 RC: None NANO: No SUBSTANCE ROLE: Dye

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
CANCER	GHS - Japan	Carcinogenicity - Category 1A [H350]
CANCER	GHS - Australia	H350i - May cause cancer by inhalation

SUBSTANCE NOTES: Main component of powder used for lay lines. Residuals were not considered because information could not be disclosed to the manufacturer by the materials suppliers.

#### 2-(2-BUTOXYETHOXY)ETHANOL

ID: 112-34-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-07-01			
%: 0.2000 - 0.5000	GS: <b>LT-P1</b>	RC: None	nano: <b>No</b>	SUBSTANCE ROLE: Dye	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Ca	H319 - Causes serious eye irritation		
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential	Potential Endocrine Disruptor		

SUBSTANCE NOTES: Additive for color of sand. Residuals were not considered because information could not be disclosed to the manufacturer by the materials suppliers.

TRIETHOXY(ETHYL)SILANE	ID: <b>78-07-9</b>

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREEN	HAZARD SCREENING DATE: 2020-07-01		
%: <b>0.1000 - 0.5000</b>	GS: LT-UNK	RC: None	NANO: <b>No</b>	SUBSTANCE ROLE: Dye	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
None found No warnings found on HPD Priority Hazard Lists					

SUBSTANCE NOTES: Additive for color of sand. Residuals were not considered because information could not be disclosed to the manufacturer by the materials suppliers.



### 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 - N/A

CERTIFYING PARTY: Self-declared

ISSUE DATE: 2020-

EXPIRY DATE:

CERTIFIER OR LAB: N/A

CERTIFIER OR LAB: SGS ICS

APPLICABLE FACILITIES: N/A

06-01

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-

05-28

#### **MANAGEMENT**

#### ISO 9001:2015 Quality management systems

05-07

EXPIRY DATE: 2021-

CERTIFYING PARTY: Third Party

APPLICABLE FACILITIES: Facilities covered by this

certification: St Julien du Sault, France;

Strasbourg, France; Val de Reuil, France;

Sorgues, France; Luynes, France; Ambert,

France; Cestas, France; La Chapelle Saint Luc,

France; Saint Rambert, France; Golbey, France;

Drummondville, Québec, Canada; Chilliwack,

British Columbia, Canada; Wadsworth, Ohio,

USA; Richmond, Québec, Canada; Gulfport,

Mississippi, USA; Beauport, Québec, Canada;

Oberrosbach, Germany; Grobbendonk,

Belgium; Andenne, Belgium; Ijlst, Netherlands;

Chignolo d'Isola Bergamo, Italy; Frosinone,

Italy; San Vito al Tagliamento, Italy;

Verolanuova, Italy; Salgareda, Italy; Blonie,

Poland; Spreitenbach, Switzerland; Cham,

Switzerland.

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

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

iso-9001-v2-ENG.pdf

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

**MANAGEMENT** 

ISO 14001:2015 Environmental management systems

CERTIFYING PARTY: Third Party ISSUE DATE: 2018-EXPIRY DATE: 2021-CERTIFIER OR LAB: SGS ICS APPLICABLE FACILITIES: Facilities covered by this 05-28 05-07 certification: St Julien du Sault, France; Strasbourg, France; Val de Reuil, France; Sorgues, France; La Chapelle Saint Luc, France; Saint Rambert, France; Golbey, France; Drummondville, Québec, Canada; Chilliwack, British Columbia, Canada; Wadsworth, Ohio, USA; Richmond, Québec, Canada; Beauport, Québec, Canada; Grobbendonk, Belgium;

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

ohsas-18001-v2-ENG.pdf

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-

Andenne, Belgium; Ijlst, Netherlands; Chignolo

Salgareda, Italy; San Vito al Tagliamento, Italy;

Spreitenbach, Switzerland; Cham, Switzerland. CERTIFICATE URL: https://www.soprema.ca/wpcontent/uploads/2015/05/SOPREMA-certificat-

d'Isola Bergamo, Italy; Frosinone, Italy;

Verolanuova, Italy; Blonie, Poland;

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.

# 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.

#### **ALSAN FLASHING**

HPD URL: No HPD available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

ALSAN FLASHING liquid waterproofing membrane may be used for sealing around penetrations through COLPHENE BSW V or COLPHENE BSW H 3.0.



# 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