RESISTO LB1236 and LB1244 by Soprema

Health Product Declaration v2.3

created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: 1965264896

CLASSIFICATION: 07 30 00 Steep Slope Roofing PRODUCT TYPE: Self-Adhering Sheet (Waterproofing)

PRODUCT DESCRIPTION: RESISTO LB1236 and LB1244 are self-adhesive sheets designed to be used as ice-dam protection on the eaves of steepslope roofs. They are composed of SBS modified bitumen and a fiberglass fleece reinforcement. LB1236 is 36 inches wide and LB1244 is 44 inches wide.

Residuals/Impurities Evaluation

Completed in 4 of 4 Materials

for Residuals/Impurities?

Section 1: Summary

Nested Method / Material Threshold

CONTENT INVENTORY

Inventory Reporting Format

Nested Materials Method

C Basic Method

Threshold Disclosed Per

Material

Product

Threshold Level

C 100 ppm

€ 1,000 ppm C Per GHS SDS

Other

Explanation(s) provided

Yes ○ No

For all contents above the threshold, the manufacturer has:

Characterized

Yes ○ No

Provided weight and role.

Screened

Yes ○ No

Provided screening results using HPDC-approved methods.

Identified

Yes ○ No

Provided name and CAS RN or other 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.

NESTED MATERIAL | MATERIAL OR SUBSTANCE | RESIDUAL OR **IMPURITY**

GREENSCREEN SCORE | HAZARD TYPE

SELF-ADHESIVE LB COMPOUND [LIMESTONE BM-3dg ASPHALT LT-III CAN | MAM | GEN STYRENE BUTADIENE RUBBER (BENZENE, ETHENYL-, POLYMER WITH 1,3-BUTADIENE) (SBS POLYMER) LT-UNK GAS OILS, PETROLEUM, HEAVY VACUUM LT-1 | CAN | MUL | DEV | MAM NICKEL (PRIMARY CASRN IS 7440-02-0) LT-1 | CAN | MUL | RES | MAM | SKI | AQU *VANADIUM, ELEMENTAL* LT-1 | CAN | MUL | GEN LEAD BM-1 | END | PBT | MUL | CAN | DEV | REP | GEN | AQU | MAM POLYCYCLIC AROMATIC HYDROCARBONS LT-1 | PBT | CAN NAPHTHALENE LT-1 | END | PBT | CAN | MUL | AQU | EYE | MAM HYDROGEN SULFIDE LT-P1 | END | MUL | MAM | AQU | PHY | EYE] MINERAL AGGREGATE SURFACING [QUARTZ (QUARTZ) BM-1 CAN | MAM | GEN FELDSPAR (FELDSPAR) LT-UNK | MAM ALUMINUM SILICATE, NATURAL (ALUMINUM SILICATE, NATURAL -FELDSPATH) LT-UNK | SKI | EYE MICA (MICA) LT-UNK | MAM FERRIC OXIDE (FERRIC OXIDE) BM-1 | CAN | MAM SODIUM OXIDE (SODIUM OXIDE) BM-2 DIPOTASSIUM OXIDE (DIPOTASSIUM OXIDE) BM-2 CALCIUM OXIDE (CALCIUM OXIDE) BM-2 | SKI | MAM | EYE MAGNESIUM OXIDE (MAGNESIUM OXIDE) BM-3dg | CAN | MAM] GLASS MAT [SOLID GLASS AND GLASS / MINERAL FIBER (SEE VARIANTS) LT-UNK | SILICONE-COATED RELEASE FILM [POLYETHYLENE (POLYETHYLENE) LT-UNK POLYDIMETHYLSILOXANES (POLYDIMETHYLSILOXANES) BM-2 PBT]

Number of Greenscreen BM-4/BM3 contents ... 2

Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ... LT-1, BM-1, LT-P1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Antimicrobial Pesticides Reporting: This product does not contain substance(s) that are intentionally added above the [Product - 1,000 ppm] threshold to act as antimicrobials.

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 SBSmodified 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

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: ISO 45001:2018 Occupational health and safety management system

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Option 1.
Pre-checked for LEED v4.1 Option 1.

Third Party Verified?

PREPARER: Self-Prepared

SCREENING DATE: 2025-01-17

C YesNo

VERIFIER: VERIFICATION #: PUBLISHED DATE: 2025-01-17

EXPIRY DATE: 2028-01-17

RESISTO LB1236 and LB1244

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

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

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.3, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-3-standard

SELF-ADHESIVE LB COMPOUND %: 76.0000 - 78.0000

MATERIAL THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals were considered through information disclosed to the manufacturer by the materials suppliers. Naphtenic oil is a component of this mixture. Different oils of different constitution are available. This explains why CAS #64742-52-5, CAS #64742-58-1 and CAS #64741-57-7 can all be present at 0% to 3%. Hydrogen sulfide is a declared impurity of one of the sources of naphtenic oil.

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

HAZARD DATA SOURCE: F	Pharos Chemical and Materials Librar	y	HAZARD S	CREENING DATE: 2025-01-17 7:28:18
%: 35.0000 - 45.0000	GreenScreen: BM-3dg	RC: None	NANO: No	SUBSTANCE ROLE: Filler
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No warn	ings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			No	listings found on Additional Hazard Lists

ASPHALT				ID: 8052-42-4
HAZARD DATA SOURCE: Ph	aros Chemical and Materials Lil	brary	HAZAR	RD SCREENING DATE: 2025-01-17 7:28:17
%: 30.0000 - 40.0000	GreenScreen: LT-1	RC: None	NANO: No	SUBSTANCE ROLE: Water resistance

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
CAN	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
CAN	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
MAM	GHS - Japan	H335 - May cause respiratory irritation [Specific target organ toxicity - Single exposure - Category 3]
CAN	GHS - Japan	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
GEN	GHS - Japan	H341 - Suspected of causing genetic defects [Germ cell mutagenicity - Category 2]
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

 ${\tt SUBSTANCE\ NOTES: Exact\ percentage\ not\ disclosed\ to\ protect\ proprietary\ information.}$

STYRENE BUTADIENE RUBBER (BENZENE, ETHENYL-, POLYMER WITH 1,3-BUTADIENE) (SBS POLYMER)

ID: 9003-55-8

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library		HAZAR	D SCREENING DATE: 2025-01-17 7:28:20
%: 20.0000 - 30.0000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Polymer species
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No w	varnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	I
None found				No listings found on Additional Hazard Lists
SUBSTANCE NOTES: Exact percentage not disclosed to protect proprietary information.				

GAS OILS, PETROLEUM, HEAVY VACUUM

ID: 64741-57-7

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2025-01-17 7:28:22		
%: 0.5000 - 2.0000	GreenScreen: LT-1	RC: None	NANO: No	SUBSTANCE ROLE: Plasticizer

	LIST NAME AND SOURCE	WARNINGS	
CAN	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence	
MUL	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant	
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters	
CAN	GHS - Australia	H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]	
CAN	EU - GHS (H-Statements) Annex 6 Table 3-1	H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]	
DEV	GHS - Australia	H361d - Suspected of damaging the unborn child [Reproductive toxicity - Category 2]	
CAN	EU - REACH Annex XVII CMRs	Carcinogens: Category 1B	
MAM	GHS - Australia	H304 - May be fatal if swallowed and enters airways [Aspiration hazard - Category 1]	
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION	
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022	
RESTRICTED LIST			
RESTRICTED LIST RESTRICTED LIST		Substances List (RSL) - Effective July 1, 2022	
	(C2CPII) Cradle to Cradle Products Innovation Institute	Substances List (RSL) - Effective July 1, 2022 Children's Products C2C Certified v4.0 Product Standard Restricted	
	(C2CPII) Cradle to Cradle Products Innovation Institute	Substances List (RSL) - Effective July 1, 2022 Children's Products C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022	
RESTRICTED LIST	(C2CPII) Cradle to Cradle Products Innovation Institute (C2CPII) Cradle to Cradle Products Innovation Institute	Substances List (RSL) - Effective July 1, 2022 Children's Products C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Formulated Consumer Products C2C Certified v4.1 Product Standard Restricted	
RESTRICTED LIST	(C2CPII) Cradle to Cradle Products Innovation Institute (C2CPII) Cradle to Cradle Products Innovation Institute	Substances List (RSL) - Effective July 1, 2022 Children's Products C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Formulated Consumer Products C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024	

 ${\tt SUBSTANCE\ NOTES:}\ \textbf{Exact\ percentage\ not\ disclosed\ to\ protect\ proprietary\ information}.$

LUBRICATING OILS, PETROLEUM, HYDROTREATED SPENT

ID: 64742-58-1

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	У	HAZARD	SCREENING DATE: 2025-01-17 7:28:23
%: 0.5000 - 2.0000 ALT	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Plasticizer

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	GHS - Australia	H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]
SKI	GHS - Australia	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
DEV	GHS - Australia	H361d - Suspected of damaging the unborn child [Reproductive toxicity - Category 2]
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

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

ALTERNATE: This substance is an alternate substance to GAS OILS, PETROLEUM, HEAVY VACUUM.

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

ID: 64742-52-5

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	,	HAZARD	SCREENING DATE:	2025-01-17 7:28:16
%: 0.5000 - 2.0000 ALT	GreenScreen: LT-1	RC: None	NANO: No	SUBSTANCE ROL	E: Plasticizer
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
CAN	EU - Annex VI CMRs		Carcinogen Categon animal evidence	gory 1B - Presumed Ca	arcinogen based
PBT	EC - CEPA DSL		Persistent, Bioacc	cumulative and inherer	itly Toxic (PBiTH)
MUL	ChemSec - SIN List		CMR - Carcinoge	n, Mutagen &/or Repro	ductive Toxicant
MUL	German FEA - Substances Haza Waters	ardous to	Class 2 - Hazard	to Waters	
CAN	GHS - Australia		H350 - May cause or 1B]	e cancer [Carcinogenio	ity - Category 1A
CAN	GHS - Japan		H350 - May cause	e cancer [Carcinogenic	ity - Category 1A]
CAN	EU - GHS (H-Statements) Anne	x 6 Table 3-1	H350 - May cause or 1B]	e cancer [Carcinogenio	ity - Category 1A
SKI	GHS - Australia		H315 - Causes sk Category 2]	kin irritation [Skin corro	sion/irritation -
SKI	GHS - Japan		H315 - Causes sk Category 2]	kin irritation [Skin corro	sion / irritation -
DEV	GHS - Australia		· ·	ed of damaging the unbicity - Category 2]	oorn child
CAN	EU - REACH Annex XVII CMRs		Carcinogens: Cat	egory 1B	

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Children's Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Formulated Consumer Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024 All Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024 Cosmetics and Personal Care Products

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

ALTERNATE: This substance is an alternate substance to GAS OILS, PETROLEUM, HEAVY VACUUM.

NICKEL (PRIMARY CASRN IS 7440-02-0)

ID: 878162-96-0

HAZARD DATA SOURCE:	Pharos Chemical and Materials Libr	ary	HAZAR	D SCREENING DATE: 2025-01-17 7:28:18
%: 0.0000 - 0.0100	GreenScreen: LT-1	RC: None	NANO: No	SUBSTANCE ROLE: Impurity/Residual

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
CAN	MAK	Carcinogen Group 1 - Substances that cause cancer in man
MUL	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
CAN	IARC	Group 1 - Agent is Carcinogenic to humans
CAN	CA EPA - Prop 65	Carcinogen
CAN	US NIH - Report on Carcinogens	Known to be a human Carcinogen
CAN	IARC	Group 2b - Possibly carcinogenic to humans
CAN	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
RES	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
CAN	EU - GHS (H-Statements) Annex 6 Table 3-1	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]
MAM	EU - GHS (H-Statements) Annex 6 Table 3-1	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]
CAN	GHS - New Zealand	Carcinogenicity category 2
CAN	GHS - Japan	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
MAM	GHS - Australia	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]
MAM	GHS - Japan	H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]
CAN	EU - Annex VI CMRs	Carcinogen Category 2 - Suspected human Carcinogen
SKI	GHS - New Zealand	Skin sensitisation category 1
AQU	GHS - New Zealand	Hazardous to the aquatic environment - acute category 1
AQU	GHS - New Zealand	Hazardous to the aquatic environment - chronic category 1
CAN	GHS - Australia	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List
		Certain Metals
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Biological and Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Children's Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Footwear, Apparel & Jewelry Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024
		All Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024
		Children's Toy Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024
		Cosmetics and Personal Care Products

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

VANADIUM, ELEMENTAL				ID: 7440-62-2
HAZARD DATA SOURCE: P	Pharos Chemical and Materials Libra	ry	HAZAF	RD SCREENING DATE: 2025-01-17 7:28:20
%: 0.0000 - 0.0100	GreenScreen: LT-1	RC: None	NANO: No	SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
CAN	MAK		Carcinogen Gr man	oup 2 - Considered to be carcinogenic for
MUL	German FEA - Substances Ha	azardous to	Class 2 - Haza	rd to Waters
GEN	MAK		Germ Cell Muta	agen 2
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	N
None found				No listings found on Additional Hazard Lists

LEAD ID: 7439-92-1

HAZAKU DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2025-01-17 7:28:22	
%: 0.0000 - 0.0100	GreenScreen: BM-1 RC: Non	ne NANO: No SUBSTANCE ROLE: Impurity/Residual	
HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS	
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor	
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action	
PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1	
MUL	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant	
CAN	CA EPA - Prop 65	Carcinogen	
CAN	IARC	Group 2b - Possibly carcinogenic to humans	
CAN	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man	
CAN	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen	
DEV	G&L - Neurotoxic Chemicals	Developmental Neurotoxicant	
CAN	US EPA - IRIS Carcinogens	(1986) Group B2 - Probable human Carcinogen	
CAN	IARC	Group 2a - Agent is probably Carcinogenic to humans	
DEV	CA EPA - Prop 65	Developmental toxicity	
PBT	US EPA - Priority PBTs (NWMP)	Priority PBT	
PBT	US EPA - Toxics Release Inventory PBTs	PBT	
DEV	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Developmental Toxicity	
REP	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Reproductive Toxicity	
REP	EU - Annex VI CMRs	Reproductive Toxicity - Category 1A	
GEN	MAK	Germ Cell Mutagen 3a	
REP	CA EPA - Prop 65	Reproductive Toxicity - Female	
REP	CA EPA - Prop 65	Reproductive Toxicity - Male	
CAN	GHS - Korea	H350 - May cause cancer [Carcinogenicity - Category 1]	
REP	GHS - Korea	H360 - May damage fertility or the unborn child [Reproductive toxicity - Category 1]	
REP	GHS - Japan	H360 - May damage fertility or the unborn child [Toxic to reproduction - Category 1A]	
DEV	GHS - Australia	H360Df - May damage the unborn child. Suspected of damaging fertility [Reproductive toxicity - Category 1A or 1B]	
REP	EU - GHS (H-Statements) Annex 6 Table 3-	H360FD - May damage fertility. May damage the unborn child [Reproductive toxicity - Category 1A or 1B]	
AQU	EU - GHS (H-Statements) Annex 6 Table 3-	H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]	

AQU	EU - GHS (H-Statements) Annex 6 Table 3-1	H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]
DEV	EU - GHS (H-Statements) Annex 6 Table 3-1	H362 - May cause harm to breast-fed children [Reproductive toxicity, effects on or via lactation]
REP	GHS - New Zealand	Reproductive toxicity category 1
CAN	GHS - New Zealand	Carcinogenicity category 2
CAN	GHS - Japan	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
GEN	GHS - Australia	H341 - Suspected of causing genetic defects [Germ cell mutagenicity - Category 2]
GEN	GHS - Japan	H341 - Suspected of causing genetic defects [Germ cell mutagenicity - Category 2]
MAM	GHS - New Zealand	Specific target organ toxicity - repeated exposure category 1
AQU	GHS - New Zealand	Hazardous to the aquatic environment - acute category 1
AQU	GHS - Australia	H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]
AQU	GHS - New Zealand	Hazardous to the aquatic environment - chronic category 1
AQU	GHS - Korea	H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]
AQU	GHS - Korea	H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]
GEN	GHS - New Zealand	Germ cell mutagenicity category 2
MAM	GHS - New Zealand	Acute oral toxicity category 3
REP	GHS - New Zealand	Effects on or via lactation
CAN	GHS - Australia	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]
REP	EU - SVHC List	Toxic to reproduction - Candidate list
REP	EU - SVHC List	Toxic to reproduction - Prioritized for listing
REP	EU - REACH Annex XVII CMRs	Reproductive toxicants: Category 1A

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Perkins+Will (P+W)	P&W - Precautionary List
		Precautionary list of substances recommended for avoidance
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List
		Certain Metals
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Core Restrictions
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Biological and Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Children's Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Formulated Consumer Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Footwear, Apparel & Jewelry Products
RESTRICTED LIST	International Living Future Institute (ILFI)	Living Building Challenge 4.0 - Red List of Materials & Chemicals - Effective April 1, 2024
		Red List substances to avoid in Living Building Challenge V4.0 projects
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024
		All Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024
		Electronics (RoHS)
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024
		Children's Toy Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024
		Cosmetics and Personal Care Products

POLYCYCLIC AROMATIC HYDROCARBONS

ID: 130498-29-2

ID: 91-20-3

HAZARD DATA SOURCE: Pha	TA SOURCE: Pharos Chemical and Materials Library		HAZAR	RD SCREENING DATE: 2025-01-17 7:28:23
%: 0.0000 - 0.0100	GreenScreen: LT-1	RC: None	NANO: No	SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
PBT	OSPAR - Priority PBTs & EDs & ec	quivalent	PBT - Chemica	Il for Priority Action
CAN	MAK		Carcinogen Gro	oup 1 - Substances that cause cancer in
CAN	US NIH - Report on Carcinogens		Reasonably An	ticipated to be Human Carcinogen
PBT	WA DoE - PBT		PBT	
РВТ	US EPA - Toxics Release Inventory	/ PBTs	PBT	
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	N
RESTRICTED LIST	International Living Future Institute	(ILFI)		Challenge 4.0 - Red List of Materials & fective April 1, 2024
			Red List substa V4.0 projects	ances to avoid in Living Building Challenge
RESTRICTED LIST	Cradle to Cradle Products Innovation (C2CPII)	on Institute		v4.1 Product Standard Restricted
			All Products	

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

HAZARD DATA SOURCE:	ARD DATA SOURCE: Pharos Chemical and Materials Library		HAZAF	RD SCREENING DATE: 2025-01-17 7:28:20
%: 0.0000 - 0.0100	GreenScreen: LT-1	RC: None	NANO: No	SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	LIST NAME AND SOURC	E	WARNINGS	
END	TEDX - Potential Endocrin	TEDX - Potential Endocrine Disruptors		ocrine Disruptor
PBT	OSPAR - Priority PBTs & concern	EDs & equivalent	PBT - Chemica	al for Priority Action
END	ChemSec - SIN List	ChemSec - SIN List		ruption
CAN	MAK		Carcinogen Gr man	roup 1 - Substances that cause cancer in
MUL	ChemSec - SIN List		CMR - Carcino	ogen, Mutagen &/or Reproductive Toxicant
CAN	CA EPA - Prop 65		Carcinogen	

NAPHTHALENE

CAN	IARC	Group 2b - Possibly carcinogenic to humans
CAN	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
CAN	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
PBT	US EPA - Priority PBTs (NWMP)	Priority PBT
РВТ	WA DoE - PBT	PBT
РВТ	US EPA - Toxics Release Inventory PBTs	PBT
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
CAN	US EPA - IRIS Carcinogens	(1986) Group C - Possible human Carcinogen
CAN	EU - GHS (H-Statements) Annex 6 Table 3-1	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]
AQU	EU - GHS (H-Statements) Annex 6 Table 3-1	H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]
AQU	EU - GHS (H-Statements) Annex 6 Table 3-1	H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]
EYE	GHS - New Zealand	Eye irritation category 2
CAN	GHS - New Zealand	Carcinogenicity category 2
CAN	GHS - Japan	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
MAM	GHS - New Zealand	Specific target organ toxicity - repeated exposure category
MAM	GHS - Japan	H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]
CAN	EU - Annex VI CMRs	Carcinogen Category 2 - Suspected human Carcinogen
AQU	GHS - New Zealand	Hazardous to the aquatic environment - acute category 1
AQU	GHS - Japan	H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]
AQU	GHS - Japan	H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]
AQU	GHS - Australia	H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]
AQU	GHS - New Zealand	Hazardous to the aquatic environment - chronic category 1
AQU	GHS - Japan	H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]
CAN	GHS - Malaysia	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]

AQU	GHS - Malaysia	H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]
AQU	GHS - Malaysia	H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]
CAN	GHS - Australia	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List
		Antimicrobials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Children's Products
RESTRICTED LIST	International Living Future Institute (ILFI)	Living Building Challenge 4.0 - Red List of Materials & Chemicals - Effective April 1, 2024
		Red List substances to avoid in Living Building Challenge V4.0 projects
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Cosmetics & Personal Care Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024
		All Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024
		Cosmetics and Personal Care Products

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

HYDROGEN SULFIDE		ID: 7783		
HAZARD DATA SOURCE:	Pharos Chemical and Materials Lib	orary	HAZAF	RD SCREENING DATE: 2025-01-17 7:28:22
%: 0.0000 - 0.0100	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
END	TEDX - Potential Endocrine	Disruptors	Potential Endo	crine Disruptor
MUL	German FEA - Substances Waters	Hazardous to	Class 2 - Haza	ard to Waters
MAM	US EPA - EPCRA Extremel Substances	y Hazardous	Extremely Haz	ardous Substances
AQU	EU - GHS (H-Statements) A	Annex 6 Table 3-1	,	xic to aquatic life [Hazardous to the aquatic acute) - Category 1]

MAM	EU - GHS (H-Statements) Annex 6 Table 3-1	3-1 H330 - Fatal if inhaled [Acute toxicity (inhalation) - Category 1 or 2]	
PHY	EU - GHS (H-Statements) Annex 6 Table 3-1	H220 - Extremely flammable gas [Flammable gases - Category 1]	
EYE	GHS - New Zealand	Eye irritation category 2	
MAM	GHS - New Zealand	Specific target organ toxicity - repeated exposure category	
MAM	GHS - Japan	H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]	
MAM	GHS - New Zealand	Acute inhalation toxicity category 2	
AQU	GHS - New Zealand	Hazardous to the aquatic environment - acute category 1	
AQU	GHS - Japan	H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]	
AQU	GHS - Japan	H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]	
AQU	GHS - New Zealand	Hazardous to the aquatic environment - chronic category	
AQU	GHS - Korea	H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]	
EYE	GHS - Korea	H319 - Causes serious eye irritation [Serious eye damage/irritation - Category 2]	
MAM	Québec CSST - WHMIS 1988	Class D1A - Very toxic material causing immediate and serious toxic effects	
MAM	GHS - Korea	H330 - Fatal if inhaled [Acute toxicity (inhalation) - Category 2]	
PHY	GHS - Korea	H220 - Extremely flammable gas [Flammable gases - Category 1]	
PHY	Québec CSST - WHMIS 1988	Class B1 - Flammable gases	
MAM	GHS - Japan	H330 - Fatal if inhaled [Acute toxicity (inhalation: gas) - Category 2]	
PHY	GHS - Japan	H220 - Extremely flammable gas [Flammable gases - Category 1]	
MAM	GHS - Australia	H330 - Fatal if inhaled [Acute toxicity (inhalation) - Category 1 or 2]	
EYE	GHS - Japan	H319 - Causes serious eye irritation [Serious eye damage eye irritation - Category 2A]	
AQU	GHS - Malaysia	H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]	
AQU	GHS - Australia	H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]	
PHY	GHS - New Zealand	Flammable gas category 1A	
PHY	GHS - Malaysia	H220 - Extremely flammable gas [Flammable gases - Category 1]	

РНҮ	GHS - Australia	H220 - Extremely flammable gas [Flammable gases - Category 1]
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

MINERAL AGGREGATE	
SURFACING	

%: 15.0000 - 18.0000

SUBSTANCE NOTES: Hydrogen sulfide may be present as impurity in asphalt and petroleum oil.

MATERIAL THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: MATERIAL TYPE: Geologically Derived

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 slip resistance.

QUARTZ (QUARTZ)				ID: 14808-60-7
HAZARD DATA SOURCE: F	Pharos Chemical and Materials Lib	rary	HAZA	RD SCREENING DATE: 2025-01-17 7:28:23
%: 26.0000 - 35.0000	GreenScreen: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Anti-adhesive agent
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
CAN	US CDC - Occupational Car	rcinogens	Occupational	Carcinogen
CAN	CA EPA - Prop 65		Carcinogen -	specific to chemical form or exposure route
CAN	US NIH - Report on Carcino	gens	Known to be I	Human Carcinogen (respirable size - setting)
CAN	MAK		Carcinogen G	Group 1 - Substances that cause cancer in
CAN	IARC		Group 1 - Age	ent is carcinogenic to humans - inhaled from sources
CAN	IARC		Group 1 - Age	ent is Carcinogenic to humans
CAN	US NIH - Report on Carcino	gens	Known to be a	a human Carcinogen
CAN	GHS - Japan		H350 - May c	ause cancer [Carcinogenicity - Category 1A]
CAN	GHS - Australia		H350i - May o Category 1A o	cause cancer by inhalation [Carcinogenicity - or 1B]
CAN	GHS - New Zealand		Carcinogenici	ity category 1
MAM	GHS - Japan		repeated expo	es damage to organs through prolonged or osure [Specific target organs/systemic toxicity eated exposure - Category 1]
GEN	GHS - Japan		H341 - Suspe mutagenicity -	ected of causing genetic defects [Germ cell - Category 2]
MAM	GHS - Australia		repeated expo	es damage to organs through prolonged or osure [Specific target organ toxicity - osure - Category 1]
MAM	GHS - New Zealand		Specific targe	t organ toxicity - repeated exposure category

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION

None found No listings found on Additional Hazard Lists

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

FELDSPAR (FELDSPAR) ID: 68476-25-5

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library		HAZAI	RD SCREENING DATE: 2025-01-17 7:28:24
%: 28.0000 - 32.0000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Anti-adhesive agent
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
МАМ	GHS - New Zealand		Specific target	organ toxicity - repeated exposure category
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATIO	N
None found				No listings found on Additional Hazard Lists

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

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

ID: **12141-46-7**

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	1	HAZA	RD SCREENING DATE: 2025-01-17 7:28:25
%: 27.0000 - 31.0000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Anti-adhesive agent
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
SKI	GHS - New Zealand		Skin irritation	category 2
EYE	GHS - New Zealand		Eye irritation o	category 2
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATIO	N
None found				No listings found on Additional Hazard Lists

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

MICA (MICA) ID: 12001-26-2

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2025-01-17 7:28:22

%: 2.0000 - 5.0000

GreenScreen: LT-UNK

RC: None NANO: No SUBSTANCE ROLE: Anti-adhesive agent

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

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

FERRIC OXIDE (FERRIC OXIDE)

ID: 1309-37-1

HAZARD DATA SOURCE	E: Pharos Chemical and Materials Libra	HAZAF	RD SCREENING DATE: 2025-01-17 7:28:25		
%: 2.0000	GreenScreen: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Impurity/Residual	
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
CAN	MAK		Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification		
MAM	GHS - Japan		repeated expos	s damage to organs through prolonged or sure [Specific target organs/systemic toxicity ated exposure - Category 1]	
MAM	GHS - Japan			s damage to organs [Specific target ic toxicity following single exposure -	
ADDITIONAL LISTINGS	S LIST NAME AND SOURCE		NOTIFICATION	N	
None found				No listings found on Additional Hazard Lists	

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

SODIUM OXIDE (SODIUM OXIDE)

ID: 1313-59-3

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2025-01-17 7:28:24						
%: 2.0000	GreenScreen: BM-2	RC: None	NANO: No	SUBSTANCE ROLE: Impurity/Residual		
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS			
None found			No v	warnings found on HPD Priority Hazard Lists		
ADDITIONAL LISTING	GS LIST NAME AND SOURCE		NOTIFICATION	N		
None found				No listings found on Additional 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 (DIPOTASSIUM OXIDE)

ID: **12136-45-7**

HAZARD DATA SOURC	E: Pharos Chemical and Materials Library	HAZAF	D SCREENING DATE: 2025-01-17 7:28:23	
%: 2.0000	GreenScreen: BM-2	RC: None	NANO: No	SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No v	varnings found on HPD Priority Hazard Lists
ADDITIONAL LISTING	S LIST NAME AND SOURCE		NOTIFICATION	N
None found				No listings found on Additional 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.

CALCIUM OXIDE (CALCIUM OXIDE)

ID: 1305-78-8

HAZARD DATA SOU	JRCE: Pharos Chemical and Materials Librar	HAZARD SCREENING DATE: 2025-01-17 7:28	3:25	
%: 1.0000	GreenScreen: BM-2 RC: None		e NANO: No SUBSTANCE ROLE: Impurity/Resid	
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
SKI	GHS - Australia		H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]	
MAM	GHS - Japan		H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxic following repeated exposure - Category 1]	city
MAM	GHS - Japan		H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]	
SKI	GHS - New Zealand		Skin corrosion category 1C	
EYE	GHS - New Zealand		Serious eye damage category 1	
EYE	GHS - Japan		H318 - Causes serious eye damage [Serious eye damage eye irritation - Category 1]	је /
SKI	GHS - Japan		H315 - Causes skin irritation [Skin corrosion / irritation - Category 2]	
EYE	GHS - Australia		H318 - Causes serious eye damage [Serious eye damage/eye irritation - Category 1]	

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List
		Antimicrobials

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

MAGNESIUM OXIDE (MAGNESIUM OXIDE)

ID: 1309-48-4

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2025-01-17 7:					
%: 0.5000	GreenScree	n: BM-3dg	RC: None	NANO: No	SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE		LIST NAME AND SOURCE		WARNINGS	
CAN		MAK		Carcinogen Gro risk under MAK	oup 4 - Non-genotoxic carcinogen with low /BAT levels
MAM		GHS - Japan		,	ise respiratory irritation [Specific target Single exposure - Category 3]
ADDITIONAL LISTIN	NGS	LIST NAME AND SOURCE		NOTIFICATION	l.
None found					No listings found on Additional Hazard Lists

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.

GLASS MAT %: 4.0000 - 5.0000

MATERIAL THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: No

MATERIAL TYPE: Glass

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

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

HAZARD DATA SOURCE: Pharos Chemical and Materials Library				HAZARD SCREENING DATE: 2025-01-17 7:28:25		
%: 100.0000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Structure component		
HAZARD TYPE	LIST NAME AND SOURCE	<u> </u>	WARNINGS			
None found			No	warnings found on HPD Priority Hazard Lists		
ADDITIONAL LISTINGS LIST NAME AND SOURCE		NOTIFICATION				
EXEMPT	European Union / European EC)	European Union / European Commission (EU		EU - REACH Exemptions		
	20)		Exempted fro safety	m REACH Annex V listing due to intrinsic		

SUBSTANCE NOTES: Random orientation glass fibrous mat.

SILICONE-COATED RELEASE FILM %: 1.0000 - 2.0000

MATERIAL THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: 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.

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2025-01-17 7:28:25		
%: 95.0000 - 99.0000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Anti-adhesive agent	
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
None found			No	warnings found on HPD Priority Hazard Lists	
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATIO	DN .	
None found				No listings found on Additional Hazard Lists	

SUBSTANCE NOTES: 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 (POLYDIMETHYLSILOXANES)

ID: 63148-62-9

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2025-01-17 7:28:26		
%: 1.0000 - 5.0000	GreenScreen: BM-2	RC: None	NANO: No	SUBSTANCE ROLE: Anti-adhesive agent	
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
PBT	EC - CEPA DSL		Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans		
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATIO	N	
None found				No listings found on Additional Hazard Lists	

SUBSTANCE NOTES: 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.

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 00:00:00 **EXPIRY DATE:**

CERTIFIER OR LAB: N/A

CERTIFICATE URL:

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

MANAGEMENT

ISO 9001:2015 Quality management systems

CERTIFYING PARTY: Third Party

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/2021/10/SOPREMA-ISO-9001-EN-1.pdf

ISSUE DATE: 2024-06-11 00:00:00 CERTIFIER OR LAB: SGS ICS EXPIRY DATE: 2027-05-07 00:00:00

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.

ISSUE DATE: 2024-06-11 00:00:00

EXPIRY DATE: 2027-05-07 00:00:00

MANAGEMENT

ISO 14001:2015 Environmental management systems

CERTIFYING PARTY: Third Party

APPLICABLE FACILITIES: Facilities covered by this certification: St Julien du Sault, France; Strasbourg, France; Val de Reuil, France; Sorgues, France; La Chapelle Saint Luc, France; Saint Rambert, France; Golbey, France; Drummondville, Québec, Canada; Chilliwack, British Columbia, Canada; Wadsworth, Ohio, USA; Richmond, Québec, Canada; Beauport, Québec, Canada; Grobbendonk, Belgium; Andenne, Belgium; Ijlst, Netherlands; Chignolo d'Isola Bergamo, Italy; Frosinone,

Italy; Salgareda, Italy; San Vito al Tagliamento, Italy; Verolanuova, Italy; Blonie, Poland; Spreitenbach,

Switzerland; Cham, Switzerland.

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

content/uploads/2021/10/SOPREMA-ISO-14001-EN-1.pdf

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

ISO 45001:2018 Occupational health and safety management system

CERTIFIER OR LAB: SGS ICS

CERTIFYING PARTY: Third Party

APPLICABLE FACILITIES: Facilities covered by this

certification: St Julien du Sault, France; Strasbourg, France;

La Chapelle Saint Luc, France; Saint Rambert, France;

Drummondville, Québec, Canada; Chilliwack, British

Columbia, Canada; Beauport, Québec, Canada;

Wadsworth, Ohio, USA; Gulfport, Mississippi, USA;

Andenne, Belgium; Chignolo d'Isola Bergamo, Italy;

Frosinone, Italy; San Vito al Tagliamento, Italy;

Verolanuova, Italy; Salgareda, Italy.

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

content/uploads/2021/10/SOPREMA-ISO-45001-EN-1.pdf

EXPIRY DATE: 2027-05-07 00:00:00

ISSUE DATE: 2024-06-11 00:00:00

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.

EXPIRY DATE:

BUILDING MATERIALS EVALUATION

Building Code Compliance Evaluation

ISSUE DATE: 2024-04-19 00:00:00

CERTIFYING PARTY: Third Party

APPLICABLE FACILITIES: Chilliwack, British Columbia,

Drummondville, Québec, and Wadsworth, Ohio.

CERTIFICATE URL: https://nrc.canada.ca/en/certifications-

evaluations-standards/canadian-construction-materials-

centre/ccmc-publications/document.html?

type=cert&id=13620-L

CERTIFICATION AND COMPLIANCE NOTES: RESISTO LB1236 and LB1244 have been evaluated by CCMC for use as an eaves protection against ice dam (Evaluation Listing #13620-L) and are compliant with CAN/CSA-A123.22-08.

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.

PRIMER FOR SELF-ADHESIVE MEMBRANE

MANUFACTURER (OR GENERIC): SOPREMA

HPD URL: No HPD available

ACCESSORY TYPE: Installation Accessory

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: The use of a primer may be required in specific uses of RESISTO LB1236 and LB1244. Acceptable primers include ELASTOCOL STICK (500 g/L VOC content), ELASTOCOL STICK ZERO (0 g/L VOC content including 240 g/L exempt VOC as per EPA), and ELASTOCOL STICK H2O (0 g/L VOC content)

Section 5: General Notes

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

CERTIFIER OR LAB: SGS ICS

CERTIFIER OR LAB: Canadian

Construction Materials Centre

MANUFACTURER INFORMATION

MANUFACTURER: Soprema

ADDRESS: 1688 Jean-Berchmans-Michaud

Drummondville, Quebec J2C 8E9

COUNTRY: 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

NoGS No GreenScreen.

GreenScreen Benchmark scores sometimes also carry subscripts, which provide more context for how the score was determined. These are DG (data gap), TP (transformation product), and CoHC (chemical of high concern). For more information, see 2.2.2.4 GreenScreen® for Safer Chemicals, www.greenscreenchemicals.org, and Best Practices for Hazard Screening on the HPDC website (hpd-collaborative.org).

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

