created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: 2330851928064

CLASSIFICATION: 07 14 13 Hot Fluid-Applied Rubberized Asphalt Waterproofing

PRODUCT DESCRIPTION: Highly modified, single component, 100% solids, hot, fluid-applied rubberized asphalt used for both roofing and

waterproofing applications - roof and plaza decks, foundation walls, tunnels, etc.



Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

Nested Materials Method

C Basic Method

Threshold Disclosed Per

Material

Product

Threshold Level

C 1,000 ppm C Per GHS SDS

Other

Residuals/Impurities Evaluation

C Completed

Not Completed

Explanation(s) provided for Residuals/Impurities?

Yes ○ No

For all contents above the threshold, the manufacturer has:

Characterized

Yes ○ No

Yes ○ No

Provided weight and role.

Screened

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 **IMPLIRITY**

GREENSCREEN SCORE | HAZARD TYPE

POLYMER MODIFIED ASPHALT CEMENT [ASPHALT LT-1 | CAN | MAM | GEN BENZENE, ETHENYL-, POLYMER WITH 1,3-BUTADIENE LT-UNK SULFUR, PRECIPITATED (SULFUR) LT-UNK | SKI | MAM] POST-CONSUMER RECYCLED FILLER [UNDISCLOSED LT-UNK] DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTENIC, RECYCLED OILS [LUBRICATING OILS, PETROLEUM, HYDROTREATED SPENT LT-P1 | CAN | SKI | DEV] STYRENE-**BUTADIENE COPOLYMER [BENZENE, ETHENYL-, POLYMER WITH** 1,3-BUTADIENE LT-UNK | RUBBER CRUMB [NATURAL RUBBER LT-UNK | RES 1,3-BUTADIENE BM-1 | CAN | END | MUL | DEV | GEN | REP | PHY | EYE | MAM STYRENE BM-1 | END | CAN | MUL | REP | SKI | EYE | MAM | DEV | GEN | AQU CARBON BLACK (POST-CONSUMER) BM-1 | CAN | EYE | MAM SILICA, AMORPHOUS (PRIMARY CASRN IS 7631-86-9) (SILICA, AMORPHOUS) BM-1 | CAN | MAM SULFUR (POST-CONSUMER) LT-UNK | SKI | MAM ZINC OXIDE BM-1 | END | MUL | AQU | MAM | REP DISTILLATES (PETROLEUM), HYDROTREATED (MILD) HEAVY NAPHTHENIC (9CI) LT-1 | CAN | PBT | MUL | SKI | DEV]

Number of Greenscreen BM-4/BM3 contents ... 0

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

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

All substances meeting the threshold of 100 parts per million (ppm) in the product were screened and reported in this HPD. This HPD is therefore compliant to the LEED v4 and v4.1 credit " Building Product Disclosure and Optimization: Material Ingredient Reporting (Option 1)" under the "Material and Resources" category. The HPD is also compliant with the "Materials Petal" of the Living Building Challenge certification. There are no residuals expected to be present in this material at or above the inventory threshold level reported. All listed hazards and warnings are only an indication of the potential effects on human health based on the presence of a substance in the product, not an assessment of the potential effects under normal conditions of use and exposure. The hazards and warnings screening was done using Pharos software available online (Healthy Building Network).

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listinas.

VOC emissions: Self-Declared VOC content: Self-Declared

Recycled content: UL Environmental Claim Validation - Recycled

content

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Option 1. Pre-checked for LEED v4.1 Option 1. Third Party Verified?

C Yes No

PREPARER: Self-Prepared

VERIFIER: **VERIFICATION #:** SCREENING DATE: 2023-05-11 PUBLISHED DATE: 2023-06-21 EXPIRY DATE: 2026-05-11

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 2.3, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-3-standard

POLYMER MODIFIED ASPHALT CEMENT

%: 40.0000 - 60.0000

PRODUCT THRESHOLD: 100 ppm

COMPLETED: No

RESIDUALS AND IMPURITIES EVALUATION MATERIAL TYPE: Other: Mixture of Geologically Derived Materials, Polymers and others.

RESIDUALS AND IMPURITIES NOTES: There are no residuals expected/known to be present in this material at or above the inventory threshold level reported.

OTHER MATERIAL NOTES: The exact percentage of the material composition is not disclosed for confidentiality reasons. A range has been provided instead.

ASPHALT ID: 8052-42-4 HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2023-05-11 6:27:18 %: 94.0000 - 100.0000 GreenScreen: LT-1 RC: None NANO: No SUBSTANCE ROLE: Binder **HAZARD TYPE** LIST NAME AND SOURCE WARNINGS CAN **US CDC - Occupational Carcinogens** Occupational Carcinogen Carcinogen Group 3B - Evidence of carcinogenic effects CAN MAK but not sufficient for classification IARC CAN Group 2b - Possibly carcinogenic to humans 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

BENZENE, ETHENYL-, POLYMER WITH 1,3-BUTADIENE

ID: 9003-55-8

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2023-05-11 6:27:18

%: 1.0000 - 10.0000 GreenScreen: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Filler

SUBSTANCE NOTES:

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2023-05-11 6:27:19 %: 2.0000 - 6.0000 GreenScreen: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Filler HAZARD TYPE LIST NAME AND SOURCE WARNINGS SKI EU - GHS (H-Statements) Annex 6 Table 3-1 H315 - Causes skin irritation [Skin corrosion/irritation -

Category 2] SKI GHS - New Zealand Skin irritation category 2 SKI GHS - Australia H315 - Causes skin irritation [Skin corrosion/irritation -Category 2] MAM GHS - Japan H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure -Category 1] ADDITIONAL LISTINGS LIST NAME AND SOURCE **NOTIFICATION** RESTRICTED LIST Green Science Policy Institute (GSPI) GSPI - Six Classes of Problematic Chemicals Antimicrobials

SUBSTANCE NOTES: This substance improves physical properties.

SUBSTANCE NOTES: This substance improves physical properties.

SULFUR, PRECIPITATED (SULFUR)

POST-CONSUMER RECYCLED %: 20.0000 - 40.0000 FILLER

PRODUCT THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: No MATERIAL TYPE: Other: Undisclosed

RESIDUALS AND IMPURITIES NOTES: There are no residuals expected to be present in this material at or above the inventory threshold level reported.

OTHER MATERIAL NOTES: The exact percentage of the material composition is not disclosed for confidentiality reasons. A range has been provided instead.

ID: 7704-34-9

UNDISCLOSED				ID:	Undisclose
HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD SCI	REENING DATE:	2023-05-11 6:27:20	
%: 100.0000 - 100.0000	GreenScreen: LT-UNK	RC: PostC	NANO: No	SUBSTANCE ROLE: F	iller
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
None found			No warr	nings found on HPD Priority I	Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION		
EXEMPT	European Union / European Con (EU EC)	nmission	EU - REACH Exe	emptions	
	(20 20)		Exempted from I safety	REACH Annex V listing due t	o intrinsic

DISTILLATES, PETROLEUM, HYDROTREATED **HEAVY NAPHTENIC, RECYCLED OILS**

%: 7.0000 - 13.0000

SUBSTANCE NOTES: The substance name and CAS number has been undisclosed to protect product's formulation.

PRODUCT THRESHOLD: 100 ppm

EVALUATION COMPLETED: No

RESIDUALS AND IMPURITIES MATERIAL TYPE: Other: Mixture of Geologically **Derived Material and Polymeric Material**

RESIDUALS AND IMPURITIES NOTES: There are no residuals expected/known to be present in this material at or above the inventory threshold level reported.

OTHER MATERIAL NOTES: The exact percentage of the material composition is not disclosed for confidentiality reasons. A range has been provided instead.

ID: 64742-58-1

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD SO	CREENING DATE:	2023-05-11 6:27:20
%: 100.0000	GreenScreen: LT-P1	RC: PostC	NANO: No	SUBSTANCE ROLE: Viscosity modifier
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
CAN	GHS - Australia		H350 - May cau 1A or 1B]	se cancer [Carcinogenicity - Category
SKI	GHS - Australia		H315 - Causes s Category 2]	skin irritation [Skin corrosion/irritation -
DEV	GHS - Australia			eted of damaging the unborn child exicity - Category 2]
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			No	listings found on Additional Hazard Lists

SUBSTANCE NOTES: The recycled content of this substance comes from post-consumer recycled oil (commercial or industrial).

STYRENE-BUTADIENE COPOLYMER %: 7.0000 - 13.0000

PRODUCT THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: No MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: There are no residuals expected/known to be present in this material at or above the inventory threshold level reported.

OTHER MATERIAL NOTES: The exact percentage of the material composition is not disclosed for confidentiality reasons. A range has been provided instead.

BENZENE, ETHENYL-, POLYMER WITH 1,3-BUTADIENE

ID: 9003-55-8

HAZARD DATA SOURCE	Pharos Chemical and Materials Library	HAZARD SO	CREENING DATE:	2023-05-11 6:27:20
%: 100.0000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Plasticizer
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No warr	nings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			No	listings found on Additional Hazard Lists

RUBBER CRUMB %: 5.0000 - 10.0000

SUBSTANCE NOTES:

PRODUCT THRESHOLD: RESIDUALS AND IMPURITIES EVALUATION MATERIAL TYPE: Other: Mixture of Geologically Derived

100 ppm COMPLETED: No Material and Polymers

RESIDUALS AND IMPURITIES NOTES: There are no residuals expected/known to be present in this material at or above the inventory threshold level reported.

OTHER MATERIAL NOTES: The exact percentage of the material composition is not disclosed for confidentiality reasons. A range has been provided instead.

NATURAL RUBBER				ID: 9006-04
HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD SC	REENING DATE:	2023-05-11 6:27:21
%: 15.0000 - 35.0000	GreenScreen: LT-UNK	RC: PostC	NANO: No	SUBSTANCE ROLE: Plasticizer
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
RES	MAK		Sensitizing Subs	stance Sah - Danger of airway & skin
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			No	listings found on Additional Hazard List

1,3-BUTADIENE ID: 106-99-0

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2023-05-11 6:27:22

%: 4.0000 - 15.0000 GreenScreen: BM-1 RC: PostC NANO: No SUBSTANCE ROLE: Plasticizer

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CAN	MAK	Carcinogen Group 1 - Substances that cause cancer in man
MUL	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
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
DEV	CA EPA - Prop 65	Developmental toxicity
CAN	EU - Annex VI CMRs	Carcinogen Category 1A - Known human Carcinogen based on human evidence
GEN	EU - Annex VI CMRs	Mutagen - Category 1B
REP	CA EPA - Prop 65	Reproductive Toxicity - Female
REP	CA EPA - Prop 65	Reproductive Toxicity - Male
GEN	MAK	Germ Cell Mutagen 2
CAN	US EPA - IRIS Carcinogens	(1999, 2005) Carcinogenic to humans
CAN	GHS - Australia	H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]
CAN	GHS - Japan	H350 - May cause cancer [Carcinogenicity - Category 1A]
GEN	GHS - Japan	H340 - May cause genetic defects [Germ cell mutagenicity - Category 1B]
REP	GHS - Japan	H360 - May damage fertility or the unborn child [Toxic to reproduction - Category 1B]
GEN	GHS - Australia	H340 - May cause genetic defects [Germ cell mutagenicity - Category 1A or 1B]
CAN	GHS - Korea	H350 - May cause cancer [Carcinogenicity - Category 1]
GEN	GHS - Korea	H340 - May cause genetic defects [Germ cell mutagenicity - Category 1]
CAN	EU - GHS (H-Statements) Annex 6 Table 3-1	H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]
GEN	EU - GHS (H-Statements) Annex 6 Table 3-1	H340 - May cause genetic defects [Germ cell mutagenicity - Category 1A or 1B]
PHY	EU - GHS (H-Statements) Annex 6 Table 3-1	H220 - Extremely flammable gas [Flammable gases - Category 1]
CAN	GHS - New Zealand	Carcinogenicity category 1
GEN	GHS - New Zealand	Germ cell mutagenicity category 1
EYE	GHS - New Zealand	Eye irritation 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 1
REP	GHS - New Zealand	Reproductive toxicity category 2
REP	GHS - Australia	H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child [Reproductive toxicity - Category 2]
PHY	GHS - Korea	H220 - Extremely flammable gas [Flammable gases - Category 1]
PHY	Québec CSST - WHMIS 1988	Class B1 - Flammable gases
PHY	GHS - Japan	H220 - Extremely flammable gas [Flammable gases - Category 1]
PHY	GHS - New Zealand	Flammable gas category 1A
PHY	GHS - New Zealand GHS - Australia	Flammable gas category 1A H220 - Extremely flammable gas [Flammable gases - Category 1]
		H220 - Extremely flammable gas [Flammable gases -
РНҮ	GHS - Australia	H220 - Extremely flammable gas [Flammable gases - Category 1]
PHY	GHS - Australia EU - REACH Annex XVII CMRs	H220 - Extremely flammable gas [Flammable gases - Category 1] Germ cell mutagens: Category 1B
PHY GEN CAN	GHS - Australia EU - REACH Annex XVII CMRs EU - REACH Annex XVII CMRs	H220 - Extremely flammable gas [Flammable gases - Category 1] Germ cell mutagens: Category 1B Carcinogens: Category 1A
PHY GEN CAN ADDITIONAL LISTINGS	GHS - Australia EU - REACH Annex XVII CMRs EU - REACH Annex XVII CMRs LIST NAME AND SOURCE Cradle to Cradle Products Innovation	H220 - Extremely flammable gas [Flammable gases - Category 1] Germ cell mutagens: Category 1B Carcinogens: Category 1A NOTIFICATION C2C Certified v4 Product Standard Restricted
PHY GEN CAN ADDITIONAL LISTINGS	GHS - Australia EU - REACH Annex XVII CMRs EU - REACH Annex XVII CMRs LIST NAME AND SOURCE Cradle to Cradle Products Innovation	H220 - Extremely flammable gas [Flammable gases - Category 1] Germ cell mutagens: Category 1B Carcinogens: Category 1A NOTIFICATION C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022

SUBSTANCE NOTES: The recycled content of this substance comes from post-consumer recycled tires.

STYRENE ID: 100-42-5

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD SO	REENING DATE: 2	2023-05-11 6:27:22
%: 4.0000 - 15.0000	GreenScreen: BM-1	RC: PostC	NANO: No	SUBSTANCE ROLE: Plasticizer
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
END	TEDX - Potential Endocrine Disr	uptors	Potential Endocrin	ne Disruptor
END	ChemSec - SIN List		Endocrine Disrupt	tion
CAN	CA EPA - Prop 65		Carcinogen	
CAN	US NIH - Report on Carcinogens	3	Reasonably Antic	ipated to be Human Carcinogen
CAN	IARC		Group 2a - Agent	is probably Carcinogenic to humans
MUL	German FEA - Substances Haza Waters	rdous to	Class 2 - Hazard t	to Waters

CAN	MAK	Carcinogen Group 5 - Genotoxic carcinogen with very slight risk under MAK/BAT levels
END	EU - Priority Endocrine Disruptors	Category 1 - In vivo evidence of Endocrine Disruption Activity
REP	GHS - Japan	H360 - May damage fertility or the unborn child [Toxic to reproduction - Category 1B]
REP	GHS - Japan	H360 - May damage fertility or the unborn child [Toxic to reproduction - Category 1A]
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
EYE	EU - GHS (H-Statements) Annex 6 Table 3-1	H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]
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]
DEV	EU - GHS (H-Statements) Annex 6 Table 3-1	H361d - Suspected of damaging the unborn child [Reproductive toxicity - Category 2]
SKI	GHS - New Zealand	Skin irritation category 2
EYE	GHS - New Zealand	Eye irritation category 2
SKI	GHS - Australia	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
EYE	GHS - Australia	H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]
CAN	GHS - New Zealand	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 - Australia	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]
MAM	GHS - New Zealand	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]
MAM	GHS - New Zealand	Acute inhalation toxicity category 3
SKI	GHS - Japan	H315 - Causes skin irritation [Skin corrosion / irritation - Category 2]
AQU	GHS - New Zealand	Hazardous to the aquatic environment - acute category 1
REP	GHS - New Zealand	Reproductive toxicity category 2
AQU	GHS - Japan	H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]

REP	EU - Annex VI CMRs	Reproductive Toxicity - Category 2
AQU	GHS - Japan	H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]
SKI	GHS - Malaysia	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
GEN	GHS - New Zealand	Germ cell mutagenicity category 2
EYE	GHS - Japan	H319 - Causes serious eye irritation [Serious eye damage / eye irritation - Category 2A]
DEV	GHS - Australia	H361d - Suspected of damaging the unborn child [Reproductive toxicity - Category 2]
EYE	GHS - Malaysia	H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]
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 of Problematic Chemicals
		Some Solvents

SUBSTANCE NOTES: The recycled content of this substance comes from post-consumer recycled tires

CARBON BLACK (POST-CONSUMER)

ID: 1333-86-4

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2023-05-11 6:27:23
%: 5.0000 - 15.0000	GreenScreen: BM-1	RC: PostC NANO: No SUBSTANCE ROLE: Plasticizer
HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	US CDC - Occupational Carcino	ogens Occupational Carcinogen
CAN	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
CAN	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CAN	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
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]

ADDITIONAL LISTINGS LIST NAME AND SOURCE NOTIFICATION

None found No listings found on Additional Hazard Lists

SUBSTANCE NOTES: The recycled content of this substance comes from post-consumer recycled tires.

SILICA, AMORPHOUS (PRIMARY CASRN IS 7631-86-9) (SILICA, AMORPHOUS)

ID: 37241-25-1

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD S	CREENING DATE:	2023-05-11 6:27:21
%: 5.0000 - 15.0000	GreenScreen: BM-1	RC: PostC	NANO: No	SUBSTANCE ROLE: Plasticizer
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
CAN	GHS - Japan		H350 - May cause 1A]	e cancer [Carcinogenicity - Category
CAN	GHS - Australia		H350i - May caus - Category 1A or	se cancer by inhalation [Carcinogenicity 1B]
MAM	GHS - Japan		repeated exposur	amage to organs through prolonged or re [Specific target organs/systemic repeated exposure - Category 1]
MAM	GHS - Australia			amage to organs through prolonged or re [Specific target organ toxicity - re - Category 1]
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classe	es of Problematic Chemicals
			Antimicrobials	

SUBSTANCE NOTES: The recycled content of this substance comes from post-consumer inert filler.

SULFUR (POST-CONSUMER)	ID: 7704-34-9
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HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD SO	CREENING DATE:	2023-05-11 6:27:22
%: 1.0000 - 4.0000	GreenScreen: LT-UNK	RC: PostC	NANO: No	SUBSTANCE ROLE: Plasticizer
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
SKI	EU - GHS (H-Statements) Annex	6 Table 3-1	H315 - Causes s Category 2]	kin irritation [Skin corrosion/irritation -
SKI	GHS - New Zealand		Skin irritation cat	tegory 2
SKI	GHS - Australia		H315 - Causes s Category 2]	kin irritation [Skin corrosion/irritation -
MAM	GHS - Japan			amage to organs [Specific target toxicity following single exposure -

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes of Problematic Chemicals
		Antimicrobials

SUBSTANCE NOTES: The recycled content of this substance comes from post-consumer recycled oil (commercial or industrial).

ZINC OXIDE ID: 1314-13-2

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD SO	CREENING DATE:	2023-05-11 6:27:23	
%: 1.0000 - 4.0000	GreenScreen: BM-1	RC: PostC	NANO: No	SUBSTANCE ROLE: Plasticizer	
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
END	TEDX - Potential Endocrine Disr	TEDX - Potential Endocrine Disruptors		Potential Endocrine Disruptor	
MUL	German FEA - Substances Haza Waters	German FEA - Substances Hazardous to Waters		Class 2 - Hazard to Waters	
AQU	EU - GHS (H-Statements) Annex	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	c 6 Table 3-1	-	e to aquatic life with long lasting effects e aquatic environment (chronic) -	
MAM	GHS - Japan			amage to organs [Specific target toxicity following single exposure -	
AQU	GHS - New Zealand		Hazardous to the	e aquatic environment - acute category	
AQU	GHS - Japan	GHS - Japan		H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]	
AQU	GHS - Japan		-	e to aquatic life with long lasting effects e aquatic environment (chronic) -	
AQU	GHS - Australia		_	c to aquatic life with long lasting effects e aquatic environment (chronic) -	
AQU	GHS - New Zealand		Hazardous to the category 1	e aquatic environment - chronic	
REP	GHS - Japan			d of damaging fertility or the unborn production - Category 2]	
AQU	GHS - Malaysia		•	e to aquatic life with long lasting effects e aquatic environment (chronic) -	
AQU	GHS - Malaysia		•	to aquatic life [Hazardous to the nent (acute) - Category 1]	

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes of Problematic Chemicals
		Antimicrobials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4 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 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Children's Products

SUBSTANCE NOTES: The recycled content of this substance comes from post-consumer recycled tires.

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

ID: 64742-52-5

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD SC	CREENING DATE:	2023-05-11 6:27:24	
%: 0.1000 - 1.0000	GreenScreen: LT-1	RC: PostC	NANO: No	SUBSTANCE ROLE: Plasticizer	
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
CAN	EU - Annex VI CMRs		Carcinogen Categon animal evidence	gory 1B - Presumed Carcinogen based ce	
PBT	EC - CEPA DSL	EC - CEPA DSL		Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans	
MUL	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or F Toxicant		n, Mutagen &/or Reproductive	
MUL	German FEA - Substances Haz Waters	ardous to	Class 3 - Severe I	Hazard to Waters	
CAN	GHS - Australia	GHS - Australia		H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]	
CAN	GHS - Japan		H350 - May cause 1A]	e cancer [Carcinogenicity - Category	
CAN	EU - GHS (H-Statements) Anne	EU - GHS (H-Statements) Annex 6 Table 3-1		H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]	
SKI	GHS - Australia	GHS - Australia		H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]	
SKI	GHS - Japan	GHS - Japan		kin irritation [Skin corrosion / irritation -	
DEV	GHS - Australia	GHS - Australia		ed of damaging the unborn child kicity - Category 2]	
CAN	EU - REACH Annex XVII CMRs		Carcinogens: Cat	regory 1B	

LIST NAME AND SOURCE	NOTIFICATION
Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
	Formulated Consumer Products

SUBSTANCE NOTES: The recycled content of this substance comes from post-consumer recycled oil (commercial or industrial).

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

Self-Declared

CERTIFYING PARTY: Self-declared

ISSUE DATE: 2022-03-14

CERTIFIER OR LAB: None

APPLICABLE FACILITIES: All

EXPIRY DATE:

CERTIFICATE URI ·

CERTIFICATION AND COMPLIANCE NOTES: VOC Emissions data is not applicable for this product category (exterior applied product)

VOC CONTENT

Self-Declared

CERTIFYING PARTY: Self-declared

ISSUE DATE: 2022-03-14

CERTIFIER OR LAB: Self-Declared

APPLICABLE FACILITIES: All

EXPIRY DATE:

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: MM6125® VOC Content = 0 g/L (contains no organic solvent)

RECYCLED CONTENT

UL Environmental Claim Validation - Recycled content

CERTIFYING PARTY: Third Party

ISSUE DATE: 2017-10-24

CERTIFIER OR LAB: UL

APPLICABLE FACILITIES: All

EXPIRY DATE:

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: 40% Recycled content

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.

FLEX-FLASH F

MANUFACTURER (OR GENERIC): Hydrotech

HPD URL: https://hpdrepository.hpd-collaborative.org/repository/HPDs/35_Flex_Flash_F.pdf

ACCESSORY TYPE: Other

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Flex-Flash F is a spun-bonded polyester reinforcing fabric that is utilized as the standard reinforcing for the MM6125® membrane, encapsulated between coats of the membrane during application.

HYDROFLEX 30

MANUFACTURER (OR GENERIC): Hydrotech

HPD URL: https://hpdrepository.hpd-collaborative.org/repository/HPDs/35_Hydroflex_30.pdf

ACCESSORY TYPE: Other

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Hydroflex 30 is a modified asphalt sheet good that is utilized as the primary mechanical protection for the MM6125® membrane, embedded in the top coat of membrane during application.

Section 5: General Notes

There are no residuals expected/known to be present in this material at the above-reported inventory threshold levels.

It should be noted that the listed hazards above are not necessarily an indication of the risks to human health associated with the material under normal conditions (i.e. normal use or normal level of exposure). These hazards were identified based only on the presence of a substance in the material.

An Environmental Product Declaration (EPD) was developed for this product and approved by CSA Group. This document is valid until March 11, 2028. MM6125 is produced with 40% PostC recycled content. Through the manufacture of its products, Hydrotech thus contributes to the diversion of materials from landfills. MM6125's recycled content claim was validated by Underwriter Laboraories (UL). Monolithic Membrane 6125 (MM6125) HPD v2.3 created via HPDC Builder Page 16 of 18

MANUFACTURER INFORMATION

MANUFACTURER: American Hydrotech, Inc.

ADDRESS: 401 N Michigan Ave

Suite 1550

Chicago IL 60611, United States

WEBSITE: www.hydrotechmembrane.ca/

CONTACT NAME: John Hamati

TITLE: Director of Technical Services PHONE: 312-337-4998

EMAIL: JHamati@HydrotechUSA.com

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

