Homogeneous Resilient Sheet by Mannington Mills

Health Product Declaration v2.3

created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: 2202989568

CLASSIFICATION: 09 65 16 Resilient Sheet Flooring

PRODUCT DESCRIPTION: Choose our homogenous and slip-resistant sheet for incredible durability, ease of cleaning, and enhanced safety. Quantum Guard technology is engineered to trap less dirt and resist stains and abrasions, delivering ease of cleaning and reduced maintenance costs. The following products are covered by this HPD: BioSpec MD, BioSpec Armor, BioSpec SR, Color Anchor Prism, and Assurance III.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

C Nested Materials Method

Basic Method

Threshold Disclosed Per

Material

Product

Threshold Level

C 1,000 ppm C Per GHS SDS

Other

Residuals/Impurities Evaluation

Completed

C Partially Completed

Not Completed

Explanation(s) provided:

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.

PRODUCT | MATERIAL OR SUBSTANCE | RESIDUAL OR IMPURITY

GREENSCREEN SCORE | HAZARD TYPE

HOMOGENEOUS RESILIENT SHEET [CALCIUM CARBONATE BM-3dq POLYVINYL CHLORIDE LT-P1 | MAM DI(2-ETHYLHEXYL) TEREPHTHALATE BM-3dg 2-PROPENOIC ACID, METHYL ESTER, POLYMER WITH CHLOROETHENE LT-UNK FIBERGLASS LT-UNK ALUMINUM OXIDE BM-2 | MAM TITANIUM DIOXIDE BM-1 * | CAN | END | MAM AMORPHOUS QUARTZ BM-1 * | CAN | MAM | GEN 1,3-ISOBENZOFURANDIONE, POLYMER WITH α-HYDRO-ω-HYDROXYPOLY(OXY-1,2-ETHANEDIYL) ETHER WITH 2-ETHYL-2-(HYDROXYMETHYL)-1,3-PROPANEDIOL (3:1), 2-PROPENOATE NoGS 2-PROPENOIC ACID, (1-METHYL-1,2-ETHANEDIYL) BIS[OXY(METHYL-2,1-ETHANEDIYL)] ESTER LT-P1 | SKI | MUL | EYE | AQU HEXANOIC ACID, 2-ETHYL-, ZINC SALT LT-1 | REP | MUL | DEV | SKI | EYE | AQU DISTILLATES, PETROLEUM, HYDROTREATED LIGHT

ISODECYL DIPHENYL ESTER LT-P1 | MUL FATTY ACIDS, C18, UNSATD., DIMERS, REACTION PRODUCTS WITH N,N-DIMETHYL-1,3-PROPANEDIAMINE AND 1,3-PROPANEDIAMINE NoGS 2-ETHYLHEXYL METHYL TEREPHTHALATE NoGS PHOSPHOROUS

BM-2 | CAN | AQU | MAM WATER BM-4 PHOSPHOROUS ACID,

ACID, DIISODECYL PHENYL ESTER LT-P1 | MUL 2-PROPENOIC ACID, 2-HYDROXYETHYL ESTER, POLYMER WITH 1,1'-METHYLENEBIS[4-ISOCYANATOCYCLOHEXANE] AND .ALPHA.,.ALPHA.',.ALPHA.''-1,2,3-PROPANETRIYLTRIS[.OMEGA.-HYDROXYPOLY[OXY(METHYL-

1,2-ETHANEDIYL)]] LT-UNK | SKI | EYE | MAM POLY(OXY-1,2-ETHANEDIYL), α-SULFO-ω-(DODECYLOXY)-, SODIUM SALT LT-P1 EYE | SKI | MAM | AQU POLY(OXY-1,2-ETHANEDIYL), α-HYDRO-ω-[(1-

OXO-2-PROPENYL)OXY]-, ETHER WITH 2-ETHYL-2-(HYDROXYMETHYL)-1,3-PROPANEDIOL (3:1) LT-P1 | SKI | EYE | AQU 2-PROPENOIC ACID, (OCTAHYDRO-4,7-METHANO-1H- INDENE-5,?-DIYL)BIS(METHYLENE) ESTER LT-P1 | MUL 2-PROPENOIC ACID, 2-

PHENOXYETHYL ESTER LT-P1 | MUL MAGNESIUM, [CARBONATO(2-)]HEXADECAHYDROXYBIS(ALUMINUM)HEXA- LT-P1 URETHANE

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

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

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Special Conditions applied: [Polymers]

Polymer Special Condition utilized. This HPD includes all chemicals and residuals present in the product above the stated threshold of 100ppm. This includes all colors available.

*Form-Specific Hazard: This substance's GreenScreen Benchmark or List Translator score and the applicable hazards are related to particulate inhalation, which is expected to occur only during manufacture, installation, maintenance, or demolition, due to activities such as sawing, sanding, grinding, or intensive cleaning. For this reason, this score is intentionally omitted from the "Contents highest concern" line above. See HPDC's Special Conditions policy for more information.

ACRYLATE OLIGOMER N/A NAPHTHENIC ACIDS, ZINC SALTS LT-P1 | MUL 1,3-PROPANEDIONE, 1,3-DIPHENYL- NoGS CALCIUM CARBONATE BM-3 | EYE SILICA SAND BM-1 | CAN | MAM BENZOIC ACID, ZINC SALT LT-P1 | MUL METHYL BENZOYLFORMATE LT-UNK PHOSPHINE OXIDE, DIPHENYL(2,4,6-TRIMETHYLBENZOYL)- LT-1 MUL | PBT | REP REACTION PRODUCTS OF 2-(4,6-BIS(2,4-DIMETHYLPHENYL)-REACTION PRODUCTS OF 2-(4,6-BIS(2,4-DIMETHYLPHENYL)-1,3,5-TRIAZIN-2-YL)-5-HYDROXYPHENOL WITH ((C10-16, RICH IN C12-13 ALKYLOXY)METHYL)OXYRANE LT-UNK SEBAZINSΣURE, BIS(2,2,6,6-TETRAMETHYL-PIPERIDINYL)-ESTER, REAKTIONSPRODUKT MIT 1,1-DIMETHYLETHYLHYDROPEROXID UND OKTAN LT-UNK SILICA, AMORPHOUS, FUMED, CRYST.-FREE BM-1 BENZENEPROPANOIC ACID, 3,5-BIS(1,1-DIMETHYLETHYL)-4-HYDROXY-, 2,2-BIS[[3-[3,5-BIS(1,1-DIMETHYLETHYL) -4-HYDROXYPHENYL]-1-OXOPROPOXY[METHYL]-1,3-PROPANEDIYL ESTER LT-UNK 9-OCTADECENOIC ACID (Z)- LT-P1 | END | SKI | EYE PERCHLORIC ACID, SODIUM SALT LT-P1 | END | PHY | MAM | EYE | SKI | REP POLY[OXY(METHYL-1,2-ETHANEDIYL)], α,α',α'' - 1,2,3-PROPANETRIYLTRIS[ω-[(1-OXO-2-PROPENYL)OXY]- LT-UNK | SKI | EYE ACETIC ACID ETHENYL ESTER, POLYMER WITH ETHENOL LT-UNK SILICIC ACID, CALCIUM SALT LT-UNK DISTILLATES (PETROLEUM), STRAIGHT-RUN MIDDLE LT-UNK | MAM | SKI | CAN 9-OCTADECENOIC ACID (Z)-, CALCIUM SALT LT-UNK IRON OXIDE (FE3O4) BM-1 * CAN CALCIUM STEARATE LT-UNK METHANONE, [2-HYDROXY-4-(OCTYLOXY)PHENYL]PHENYL- LT-UNK PHOSPHOROUS ACID, TRIISODECYL ESTER LT-P1 | MUL ALCOHOLS, C12-18 LT-UNK C.I. PIGMENT BLUE 28 LT-1 | CAN | RES | GEN 2-PROPENOIC ACID, ISODECYL ESTER LT-P1 | MUL 2-PROPENOIC ACID, 2-METHYL-, PHOSPHINICOBIS(OXY-2,1-ETHANEDIYL) ESTER NoGS 2-PROPENOIC ACID, 4-(1,1-DIMETHYLETHYL)CYLCLOHEXYL ESTER LT-P1 | MUL CELLULOSE, ACETATE BUTANOATE LT-UNK NEPHELINE SYENITE LT-UNK 2-PROPANOL, 1-METHOXY- LT-P1 END | EYE NEODECANOIC ACID LT-P1 | EYE | AQU 2-PROPENOIC ACID, 2-HYDROXYETHYL ESTER, POLYMER WITH .ALPHA.-HYDRO-.OMEGA.-HYDROXYPOLY(OXY-1,4-BUTANEDIYL) AND 1,1'-METHYLENEBIS[4-ISOCYANATOCYCLOHEXANE] NoGS SILICA GEL LT-UNK | MAM SOYBEAN OIL, EPOXIDIZED LT-P1 | AQU DI(TRIMETHYLOLPROPANE) TETRAACRYLATE BM-1 | SKI | EYE DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC LT-1 | CAN | MUL | SKI | DEV NAPHTHA (PETROLEUM), HEAVY ALKYLATE LT-1 | CAN | MUL | GEN | SKI | EYE | MAM HEXANEDIOIC ACID, DIISONONYL ESTER LT-UNK 1,3,5-TRIAZINE-2,4,6(1H,3H,5H)-TRIONE, 1,3,5-TRIS(2-HYDROXYETHYL)- LT-UNK 9-OCTADECENOIC ACID (Z)-, ZINC SALT LT-P1 | MUL BENZOPHENONE LT-1 | END | CAN | AQU]

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: RFCI FloorScore

CONSISTENCY WITH OTHER PROGRAMS

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

Third Party Verified?

YesNo

PREPARER: Self-Prepared

VERIFIER: WAP Sustainability Consulting

VERIFICATION #: zPr-23972

SCREENING DATE: 2025-05-06 PUBLISHED DATE: 2025-05-06 EXPIRY DATE: 2028-05-06

Section 2: Content in Descending Order of Quantity

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

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

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

HOMOGENEOUS RESILIENT SHEET

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were collected from suppliers and those that fall above the threshold are included.

OTHER PRODUCT NOTES:

CALCIUM CARBONATE			ID: 1317-6 5	
HAZARD DATA SOURCE:	Pharos Chemical and Materials Library		HAZARD S	SCREENING DATE: 2025-05-06 8:41:31
%: 40.0000 - 50.0000	GreenScreen: BM-3dg	RC: None	NANO: No	SUBSTANCE ROLE: Filler
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
SUBSTANCE NOTES:				

POLYVINYL CHLORIDE				ID: 9002-86-2
HAZARD DATA SOURCE: P	haros Chemical and Materials Libra	ary	HAZAR	RD SCREENING DATE: 2025-05-06 8:41:32
%: 20.0000 - 25.0000	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Polymer species
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
MAM	GHS - Japan		,	use respiratory irritation [Specific target Single exposure - Category 3]
MAM	GHS - Japan		repeated expos	damage to organs through prolonged or sure [Specific target organs/systemic toxicity tted exposure - Category 1]

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	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	International Living Future Institute (ILFI)	Living Building Challenge 4.0 - Red List of Materials & Chemicals - Effective February 1, 2025
		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
		Avoidance of Organohalogens and Functionally Related Chemical Classes of Concern

DI(2-ETHYLHEXYL) TEREPHTHALATE

ID: 6422-86-2

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2025-05-06	
%: 15.0000 - 20.0000	GreenScreen: BM-3dg	RC: None	NANO: No	SUBSTANCE ROLE: Plasticizer
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No wa	rnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
RESTRICTED LIST	Green Science Policy Institute	e (GSPI)	GSPI - Six Classe	es Precautionary List
			Some Solvents	
SUBSTANCE NOTES:				

2-PROPENOIC ACID, METHYL ESTER, POLYMER WITH CHLOROETHENE

ID: 25035-98-7

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2025-05-06 8:41:33		
%: 5.0000 - 15.0000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Polymer species
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No w	arnings found on HPD Priority Hazard Lists

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
		Core Restrictions
RESTRICTED LIST	International Living Future Institute (ILFI)	Living Building Challenge 4.0 - Red List of Materials & Chemicals - Effective February 1, 2025
		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
		Avoidance of Organohalogens and Functionally Related Chemical Classes of Concern

IAZARD DATA SOURCE: F	Pharos Chemical and Materials Libra	ary	HAZA	ARD SCREENING DATE: 2025-05-06 8:41:33
6: 0.0000 - 5.0000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Structure component
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No	warnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATIO	N
EXEMPT	European Union / European (EC)	Commission (EU	EU - REACH	Exemptions
			Exempted fro safety	m REACH Annex V listing due to intrinsic

ALUMINUM OXIDE			ID: 1344-28-1		
HAZARD DATA SOURCE:	Pharos Chemical and Materials Lik	orary	HAZA	ARD SCREENING DATE: 2025-05-06 8:41:33	
%: 0.0000 - 5.0000	GreenScreen: BM-2	RC: None	NANO: No	SUBSTANCE ROLE: Abrasion resistance	
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
MAM	GHS - Japan		•	cause respiratory irritation [Specific target - Single exposure - Category 3]	
МАМ	GHS - Japan		repeated exp	es damage to organs through prolonged or osure [Specific target organs/systemic toxicity eated exposure - 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
		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 v4.1 Product Standard Restricted Substances - Effective July 1, 2024
		Children's Toy Products

TITANIUM DIOXIDE	ID: 13463-67-7

HAZARD DATA SOURCE:	Pharos Chemical and Materials Libra	haros Chemical and Materials Library		HAZARD SCREENING DATE: 2025-05-06 8:41:33	
%: 0.0000 - 5.0000	GreenScreen: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Pigment	
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
CAN	US CDC - Occupational Carcin	nogens	Occupational Card	cinogen**	
CAN	CA EPA - Prop 65		Carcinogen - spec	ific to chemical form or exposure route**	
CAN	IARC		Group 2B - Possib from occupational	oly carcinogenic to humans - inhaled sources**	
CAN	MAK			3A - Evidence of carcinogenic effects o establish MAK/BAT value**	
END	TEDX - Potential Endocrine Di	sruptors	Potential Endocrin	e Disruptor**	
CAN	MAK		Carcinogen Group risk under MAK/BA	4 - Non-genotoxic carcinogen with low AT levels**	
CAN	IARC		Group 2b - Possib	ly carcinogenic to humans**	
CAN	EU - GHS (H-Statements) Ann	ex 6 Table 3-1	H351 - Suspected Category 2]**	of causing cancer [Carcinogenicity -	
CAN	GHS - Japan		H351 - Suspected Category 2]**	of causing cancer [Carcinogenicity -	
MAM	GHS - Japan		repeated exposure	mage to organs through prolonged or e [Specific target organs/systemic toxicity exposure - 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
		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
		Cosmetics & Personal Care Products
POSITIVE LIST	US Environmental Protection Agency (US EPA)	US EPA - DfE Safer Chemicals Ingredients list (SCIL)
	EFA)	Colorants - Green Circle (Verified Low Concern)
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: **Form-Specific Hazard: This substance's GreenScreen Benchmark or List Translator score and the applicable hazards are related to particulate inhalation, which is expected to occur only during manufacture, installation, maintenance, or demolition, due to activities such as sawing, sanding, grinding, or intensive cleaning. See HPDC's Special Conditions policy for more information. Manufacturer's Safety Data Sheet (SDS), if applicable, may offer occupational health and safety information.

AMORPHOUS QUARTZ ID: 14808-60-7

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2025-05-06 8:41:34

%: 0.0000 - 1.0000

GreenScreen: BM-1

RC: None

NANO: No SUBSTANCE ROLE: Impurity

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen**
CAN	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route**
CAN	US NIH - Report on Carcinogens	Known to be Human Carcinogen (respirable size - occupational setting)**
CAN	MAK	Carcinogen Group 1 - Substances that cause cancer in man**
CAN	IARC	Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources**
CAN	IARC	Group 1 - Agent is Carcinogenic to humans**
CAN	US NIH - Report on Carcinogens	Known to be a human Carcinogen**
CAN	GHS - Japan	H350 - May cause cancer [Carcinogenicity - Category 1A]**
CAN	GHS - Australia	H350i - May cause cancer by inhalation [Carcinogenicity - Category 1A or 1B]**
CAN	GHS - New Zealand	Carcinogenicity category 1**
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]**
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**
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: **Form-Specific Hazard: This substance's GreenScreen Benchmark or List Translator score and the applicable hazards are related to particulate inhalation, which is expected to occur only during manufacture, installation, maintenance, or demolition, due to activities such as sawing, sanding, grinding, or intensive cleaning. See HPDC's Special Conditions policy for more information. Manufacturer's Safety Data Sheet (SDS), if applicable, may offer occupational health and safety information.

1,3-ISOBENZOFURANDIONE, POLYMER WITH α -HYDRO- ω -HYDROXYPOLY(OXY-1,2-ETHANEDIYL) ETHER WITH 2-ETHYL-2-(HYDROXYMETHYL)-1,3-PROPANEDIOL (3:1), 2-PROPENOATE

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	/	HAZAF	RD SCREENING DATE: 2025-05-06 8:41:34
%: 0.0000 - 1.0000	GreenScreen: NoGS	RC: None	NANO: No	SUBSTANCE ROLE: Polymer species
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			Nov	warnings found on HPD Priority Hazard Lists

ID: 157351-35-4

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists
SUBSTANCE NOTES:		

2-PROPENOIC ACID, (1-METHYL-1,2-ETHANEDIYL) BIS[OXY(METHYL-2,1-ETHANEDIYL)] ESTER

ID: 42978-66-5

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2025-05-06 8:41:3			
%: 0.0000 - 1.0000	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Monomer	
HAZARD TYPE	LIST NAME AND SOURC	E	WARNINGS		
SKI	MAK		Sensitizing Substa	ance Sh - Danger of skin sensitization	
MUL	German FEA - Substance Waters	s Hazardous to	Class 3 - Severe I	Hazard to Waters	
SKI	EU - GHS (H-Statements)	Annex 6 Table 3-1	H315 - Causes sk Category 2]	in irritation [Skin corrosion/irritation -	
EYE	EU - GHS (H-Statements)			erious eye irritation [Serious eye tion - Category 2A]	
AQU	EU - GHS (H-Statements)	EU - GHS (H-Statements) Annex 6 Table 3-1		H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]	
SKI	GHS - New Zealand		Skin irritation category 2		
EYE	GHS - New Zealand		Eye irritation category 2		
SKI	GHS - Australia	GHS - Australia		H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]	
EYE	GHS - Australia	GHS - Australia		H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]	
SKI	GHS - New Zealand		Skin sensitisation category 1		
AQU	GHS - New Zealand		Hazardous to the	aquatic environment - chronic category	
AQU	GHS - Australia			quatic life with long lasting effects aquatic environment (chronic) -	
AQU	GHS - Japan		H401 - Toxic to aquatic life [Hazardous to the aquat environment (acute) - Category 2]		
AQU	GHS - Japan	GHS - Japan		quatic life with long lasting effects aquatic environment (chronic) -	
EYE	GHS - Japan		H319 - Causes se eye irritation - Cat	erious eye irritation [Serious eye damage egory 2A]	
ADDITIONAL LISTINGS	LIST NAME AND SOURC	E	NOTIFICATION		
None found			No	b listings found on Additional Hazard Lis	

HEXANOIC ACID, 2-ETHYL-, ZINC SALT

ID: 136-53-8

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2025-05-06 8:41:3			
%: 0.0000 - 1.0000	GreenScreen: LT-1	RC: None	NANO: No	SUBSTANCE ROLE: Stabilizer	
HAZARD TYPE	LIST NAME AND SOURCE	<u> </u>	WARNINGS		
REP	EU - Annex VI CMRs		Reproductive Toxi	icity - Category 1B	
MUL	German FEA - Substances Waters	German FEA - Substances Hazardous to Waters		o Waters	
DEV	EU - GHS (H-Statements) A	Annex 6 Table 3-1	H360D - May damage the unborn child [Reproductive toxicity - Category 1A or 1B]		
SKI	GHS - New Zealand		Skin corrosion cat	egory 1C	
EYE	GHS - New Zealand		Serious eye dama	ige category 1	
AQU	GHS - New Zealand		Hazardous to the	aquatic environment - chronic category 3	
REP	GHS - New Zealand		Reproductive toxicity category 2		
REP	EU - REACH Annex XVII CMRs		Reproductive toxicants: Category 1B		
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	LIST NAME AND SOURCE		NOTIFICATION	
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)		e C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022		
			Biological and Env	vironmentally Released Materials	
RESTRICTED LIST	Cradle to Cradle Products I (C2CPII)	nnovation Institute	ce C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022		
			Children's Product	ts	
RESTRICTED LIST	Cradle to Cradle Products I (C2CPII)	nnovation Institute		Product Standard Restricted RSL) - Effective July 1, 2022	
			Formulated Consu	umer Products	
RESTRICTED LIST	Cradle to Cradle Products I (C2CPII)	nnovation Institute	C2C Certified v4.1 Substances - Effe	Product Standard Restricted ctive July 1, 2024	
			Children's Toy Pro	oducts	
SUBSTANCE NOTES:					

${\bf DISTILLATES,\, PETROLEUM,\, HYDROTREATED\,\, LIGHT}$

ID: 64742-47-8

HAZARD DATA SOURCE:	Pharos Chemical and Materials Lit	orary	HAZARD	SCREENING DATE: 2025-05-06 8:41:35
%: 0.0000 - 1.0000	GreenScreen: BM-2	RC: None	NANO: No	SUBSTANCE ROLE: Defoamer

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
AQU	GHS - Japan	H401 - Toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 2]
AQU	GHS - Japan	H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]
MAM	EU - GHS (H-Statements) Annex 6 Table 3-1	H304 - May be fatal if swallowed and enters airways [Aspiration hazard - Category 1]
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	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List
		Some Solvents
SUBSTANCE NOTES:		

HAZARD DATA SOURCE: Ph	aros Chemical and Materials Lib	orary	HAZARD S	SCREENING DATE: 2025-05-06 8:41:35
%: 0.0000 - 1.0000	GreenScreen: BM-4	RC: None	NANO: No	SUBSTANCE ROLE: Solvent
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No war	nings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
EXEMPT	European Union / Europear EC)	Commission (EU	EU - REACH Exer	nptions
	-,		Exempted from RI safety	EACH Annex IV listing due to intrinsic

PHOSPHOROUS ACID, IS	ODECYL DIPHENYL ESTER	ID: 26544-2		
HAZARD DATA SOURCE:	Pharos Chemical and Materials Lik	orary	HAZARD	SCREENING DATE: 2025-05-06 8:41:36
%: 0.0000 - 1.0000	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Stabilizer
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
MUL	German FEA - Substances Waters	Hazardous to	Class 3 - Severe I	Hazard to Waters

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION	
None found		No listings found on Additional Ha	zard Lists
SUBSTANCE NOTES:			

FATTY ACIDS, C18, UNSATD., DIMERS, REACTION PRODUCTS WITH N,N-DIMETHYL-1,3-PROPANEDIAMINE AND 1,3-PROPANEDIAMINE

ID: 162627-17-0

HAZARD DATA SOURCE:	Pharos Chemical and Materials Librar	у	HAZARD	SCREENING DATE: 2025-05-06 8:41:37
%: 0.0000 - 1.0000	GreenScreen: NoGS	RC: None	NANO: No	SUBSTANCE ROLE: Dispersant
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No wa	rnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			N	o listings found on Additional Hazard Lists
SUBSTANCE NOTES:				

2-ETHYLHEXYL METHYL TEREPHTHALATE

ID: **63468-13-3**

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library		HAZARD	SCREENING DATE: 2025-05-06 8:41:36
%: 0.0000 - 1.0000	GreenScreen: NoGS	RC: None	NANO: No	SUBSTANCE ROLE: Plasticizer
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No wai	rnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			No	o listings found on Additional Hazard Lists
SUBSTANCE NOTES:				

PHOSPHOROUS ACID, DIISODECYL PHENYL ESTER

ID: 25550-98-5

MUL	German FEA - Substances I Waters	Hazardous to	Class 3 - Severe	Hazard to Waters
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
%: 0.0000 - 1.0000	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Stabilizer
HAZARD DATA SOURCE:	Pharos Chemical and Materials Lib	rary	HAZARD	SCREENING DATE: 2025-05-06 8:41:36

ADDITIONAL LISTINGS

LIST NAME AND SOURCE

NOTIFICATION

No listings found on Additional Hazard Lists

SUBSTANCE NOTES:

2-PROPENOIC ACID, 2-HYDROXYETHYL ESTER, POLYMER WITH 1,1'-METHYLENEBIS[4-ISOCYANATOCYCLOHEXANE] AND .ALPHA.,.ALPHA.'.-1,2,3-PROPANETRIYLTRIS[.OMEGA.-HYDROXYPOLY[OXY(METHYL-1,2-ETHANEDIYL)]]

ID: 73324-00-2

HAZARD DATA SOURCE:	Pharos Chemical and Materials Librar	у	HAZARD	SCREENING DATE: 2025-05-06 8:41:3
%: 0.0000 - 1.0000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Monomer
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
SKI	GHS - Australia		H315 - Causes sk Category 2]	kin irritation [Skin corrosion/irritation -
EYE	GHS - Australia			erious eye irritation [Serious eye tion - Category 2A]
MAM	GHS - Australia		H330 - Fatal if inh Category 1 or 2]	naled [Acute toxicity (inhalation) -
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			No	o listings found on Additional Hazard Lists
SUBSTANCE NOTES:				

POLY(OXY-1,2-ETHANEDIYL), $\alpha\text{-SULFO-}\omega\text{-}(DODECYLOXY)\text{-}, SODIUM SALT}$

ID: 9004-82-4

HAZARD DATA SOURCE:	Pharos Chemical and Materials Lib	orary	HAZARD	SCREENING DATE: 2025-05-06 8:41:38
%: 0.0000 - 1.0000	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Surfactant

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
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]
SKI	GHS - Japan	H315 - Causes skin irritation [Skin corrosion / irritation - Category 2]
MAM	GHS - Japan	H371 - May cause damage to organs [Specific target organs/systemic toxicity following single exposure - Category 2]
AQU	GHS - Japan	H401 - Toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 2]
AQU	GHS - Japan	H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists
SUBSTANCE NOTES:		

POLY(OXY-1,2-ETHANEDIYL), α -HYDRO- ω -[(1-OXO-2-PROPENYL)OXY]-, ETHER WITH 2-ETHYL-2-(HYDROXYMETHYL)-1,3-PROPANEDIOL (3:1)

ID: 28961-43-5

HAZARD DATA SOURCE: PI	haros Chemical and Materials Library	У	HAZARD	SCREENING DATE: 2025-05-06 8:41:3
%: 0.0000 - 1.0000	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Monomer
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
SKI	GHS - New Zealand		Skin irritation cate	gory 2
EYE	GHS - New Zealand		Serious eye dama	age category 1
SKI	GHS - New Zealand		Skin sensitisation	category 1
AQU	GHS - New Zealand		Hazardous to the	aquatic environment - chronic category 2
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			No	listings found on Additional Hazard Lists

2-PROPENOIC ACID, (OCTAHYDRO-4,7-METHANO-1H- INDENE-5,?-DIYL)BIS(METHYLENE) ESTER

ID: **42594-17-2**

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2025-05-06 8:41:36

%: 0.0000 - 1.0000	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Monomer
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
MUL	German FEA - Substances Waters	Hazardous to	Class 3 - Severe I	Hazard to Waters
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			No	listings found on Additional Hazard Lists
SUBSTANCE NOTES:				

2-PROPENOIC ACID, 2-PHENOXYETHYL ESTER

ID: 48145-04-6

HAZARD DATA SOURCE:	Pharos Chemical and Materials Libr	ary	HAZARD	SCREENING DATE: 2025-05-06 8:41:37
%: 0.0000 - 1.0000	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Monomer
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
MUL	German FEA - Substances H Waters	lazardous to	Class 3 - Severe I	Hazard to Waters
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			No	b listings found on Additional Hazard Lists
SUBSTANCE NOTES:				

MAGNESIUM, [CARBONATO(2-)]HEXADECAHYDROXYBIS(ALUMINUM)HEXA-

ID: 11097-59-9

HAZARD DATA SOURCE:	Pharos Chemical and Materials Libra	ry	HAZARD	SCREENING DATE: 2025-05-06 8:41:3
%: 0.0000 - 1.0000	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Stabilizer
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No war	rnings found on HPD Priority Hazard Lists
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	
			Biological and Env	vironmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Inne (C2CPII)	ovation Institute		O Product Standard Restricted RSL) - Effective July 1, 2022
			Children's Produc	ts
RESTRICTED LIST	Cradle to Cradle Products Inne (C2CPII)	ovation Institute	C2C Certified v4.1 Substances - Effe	1 Product Standard Restricted ctive July 1, 2024
			Children's Toy Pro	oducts

URETHANE ACRYLATE OLIGOMER

ID: Polymer

HAZARD DATA SOURCE: GHS-compliant SDS HAZARD SCREENING DATE: 2025-03-14 20:47:15

%: 0.0000 - 1.0000 GreenScreen: N/A RC: None NANO: No POLYMER ROLE: Polymer species

HAZARD TYPE LIST NAME AND SOURCE WARNINGS

Hazards Screening not applicable for this special condition. See GHS or CLP warnings below.

POLYMER TYPE: Crosslinked thermoset

AVERAGE MOLECULAR WEIGHT: ≥1,000 Da and ≤ 10,000 Da

PERCENTAGE OF POLYMER WITH MOLECULAR WEIGHT LESS THAN 500 DA: Unknown

ADDITIONAL SUBSTANCES CONSIDERED: Yes

GHS HAZARD STATEMENTS: Skin Irritation, Category 2, H315 | Eye Irritation, Category 2A, H319 | Skin Sensitization, Category 1, H317

HAZARD SCREENING COMPLIANCE: Hazard screening data sourced from OSHA and/or EU compliance CLP or SDS, as allowed by HPDC Special Conditions policy for polymers.

POLYMER NOTES: This polymer has been reported in accordance to HPDC Special Conditions Policy for polymers without disclosed CAS numbers.

ADDITIONAL NOTES: All residuals, unreacted monomers, and intentionally added functional additives associated with this polymer that are present above the selected reporting threshold have been reported elsewhere on this HPD. Hazard screening data sourced from OSHA and/or EU compliance CLP or SDS, as allowed by HPDC Special Conditions policy for polymers.

NAPHTHENIC ACIDS, ZINC SALTS

ID: 12001-85-3

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2025-05-06 8:41:38		
%: 0.0000 - 0.1000	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Stabilizer	
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
MUL	German FEA - Substances Waters	Hazardous to	Class 3 - Severe I	Hazard to Waters	

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
		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 v4.1 Product Standard Restricted Substances - Effective July 1, 2024
		Children's Toy Products

1,3-PROPANEDIONE, 1,3-DIPHENYL-

ID: **120-46-7**

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library		HAZARD	SCREENING DATE:	2025-05-06 8:41:38
%: 0.0000 - 0.1000	GreenScreen: NoGS	RC: None	NANO: No	SUBSTANCE RO	LE: Stabilizer
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
None found			No war	nings found on HPD F	Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION		
None found			No	listings found on Add	itional Hazard Lists
SUBSTANCE NOTES:					

CALCIUM CARBONATE ID: 471-34-1

HAZARD DATA SOURCE: P	haros Chemical and Materials Library	/	HAZARD	SCREENING DATE: 2025-05-06 8:41:38
%: 0.0000 - 0.1000	GreenScreen: BM-3	RC: None	NANO: No	SUBSTANCE ROLE: Stabilizer
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
EYE	GHS - New Zealand		Eye irritation cated	gory 2
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			No	listings found on Additional Hazard Lists

SILICA SAND	ID: 7631-86-9

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2025-05-06 8:41	1:38	
%: 0.0000 - 0.1000	GreenScreen: BM-1	RC: None	NANO: No SUBSTANCE ROLE: Impurity	
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
CAN	GHS - Japan		H350 - May cause cancer [Carcinogenicity - Category 1A	4]
CAN	GHS - Australia		H350i - May cause cancer by inhalation [Carcinogenicity - Category 1A or 1B]	
MAM	GHS - Japan		H335 - May cause respiratory irritation [Specific target organ toxicity - Single exposure - Category 3]	
MAM	GHS - Japan		H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxic following repeated exposure - Category 1]	ity
MAM	GHS - Australia		H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]	
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
RESTRICTED LIST	Green Science Policy Institute (GS	PI)	GSPI - Six Classes Precautionary List	
			Antimicrobials	

BENZOIC ACID, ZINC SALT ID: 553-72-0

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2025-05-06 8:41:3		
%: 0.0000 - 0.1000	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Stabilizer
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
MUL	German FEA - Substances Ha Waters	zardous to	Class 3 - Severe	Hazard to Waters
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			No	listings found on Additional Hazard Lists

METHYL BENZOYLFORMATE ID: 15206-55-0

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2025-05-06 8:41:40

%: 0.0000 - 0.1000 GreenScreen: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Photoinitiator

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
SUBSTANCE NOTES:		

PHOSPHINE OXIDE, DIPHENYL(2,4,6-TRIMETHYLBENZOYL)-

ID: **75980-60-8**

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2025-05-06 8:41:41		
%: 0.0000 - 0.1000	GreenScreen: LT-1	RC: None	NANO: No	SUBSTANCE ROLE: Photoinitiator
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
MUL	German FEA - Substances Ha Waters			e Hazard to Waters
PBT			PBT / vPvB (Persistent, Bioaccumulative, & Toxic / very Persistent & very Bioaccumulative)	
REP	EU - GHS (H-Statements) Annex 6 Table 3-1		H361f - Suspected of damaging fertility [Reproductive toxicity - Category 2]	
REP	EU - Annex VI CMRs		Reproductive Toxicity - Category 2	
REP	GHS - Australia		H361f - Suspected of damaging fertility [Reproductive toxicity - Category 2]	
REP	EU - SVHC List		Toxic to reproduction - Candidate list	
REP	EU - SVHC List		Toxic to reproduction - Prioritized for listing	
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
RESTRICTED LIST	Cradle to Cradle Products Inno (C2CPII)	ovation Institute		1.0 Product Standard Restricted (RSL) - Effective July 1, 2022
			Children's Produ	ucts
SUBSTANCE NOTES:				

SUBSTANCE NOTES:

REACTION PRODUCTS OF 2-(4,6-BIS(2,4-DIMETHYLPHENYL)-REACTION PRODUCTS OF 2-(4,6-BIS(2,4-DIMETHYLPHENYL)-1,3,5-TRIAZIN-2-YL)-5-HYDROXYPHENOL WITH ((C10-16, RICH IN C12-13 ALKYLOXY)METHYL)OXYRANE

ID: 153519-44-9

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2025-05-06 8:41:39		
%: 0.0000 - 0.1000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Stabilizer	
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
None found			No war	rnings found on HPD Priority Hazard Lists	

ADDITIONAL LISTINGS LIST NAME AND SOURCE NOTIFICATION

None found No listings found on Additional Hazard Lists

SUBSTANCE NOTES:

SEBAZINS∑URE, BIS(2,2,6,6-TETRAMETHYL-PIPERIDINYL)-ESTER, REAKTIONSPRODUKT MIT 1,1-DIMETHYLETHYLHYDROPEROXID UND OKTAN

ID: 129757-67-1

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARE	SCREENING DATE: 2025-05-06 8:41:39
%: 0.0000 - 0.1000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Curing agent
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No wa	arnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			N	lo listings found on Additional Hazard Lists

SILICA, AMORPHOUS, FUMED, CRYST.-FREE

ID: 112945-52-5

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	/	HAZARD	O SCREENING DATE: 2025-05-06 8:41:40
%: 0.0000 - 0.1000	GreenScreen: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Matting agent
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No wa	arnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			N	lo listings found on Additional Hazard Lists
SUBSTANCE NOTES:				

BENZENEPROPANOIC ACID, 3,5-BIS(1,1-DIMETHYLETHYL)-4-HYDROXY-, 2,2-BIS[[3-[3,5-BIS(1,1-DIMETHYLETHYL) -4-HYDROXYPHENYL]-1-OXOPROPOXY]METHYL]-1,3-PROPANEDIYL ESTER

ID: 6683-19-8

HAZARD DATA SOURCE: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2025-05-06 8:41:41		
%: 0.0000 - 0.1000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Antioxidant	
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
None found			No wa	arnings found on HPD Priority Hazard Lists	

SUBSTANCE NOTES:

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
POSITIVE LIST	US Environmental Protection Agency (US EPA)	US EPA - DfE Safer Chemicals Ingredients list (SCIL)
		Preservatives-Antioxidants - Green Circle (Verified Low Concern)
SUBSTANCE NOTES:		

9-OCTADECENOIC ACID (Z)-

ID: 112-80-1

HAZARD DATA SOURCE:	Pharos Chemical and Materials Libi	Pharos Chemical and Materials Library		ARD SCREENING DATE: 2025-05-06 8:41:42		
%: 0.0000 - 0.1000	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Heat or UV stabilizer		
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS			
END	TEDX - Potential Endocrine	TEDX - Potential Endocrine Disruptors		Potential Endocrine Disruptor		
SKI	GHS - New Zealand	GHS - New Zealand		Skin irritation category 2		
EYE	GHS - New Zealand	GHS - New Zealand		category 2		
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATIO	N		
None found				No listings found on Additional Hazard Lists		
SUBSTANCE NOTES:						

PERCHLORIC ACID, SODIUM SALT

ID: 7601-89-0

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2025-05-06 8:41:40		
%: 0.0000 - 0.1000	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Stabilizer

LIST NAME AND SOURCE	WARNINGS
TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
EU - GHS (H-Statements) Annex 6 Table 3-1	H271 - May cause fire or explosion; strong oxidiser [Oxidizing liquids; Oxidizing solids - Category 1]
GHS - Japan	H335 - May cause respiratory irritation [Specific target organ toxicity - Single exposure - Category 3]
GHS - New Zealand	Eye irritation category 2
GHS - Australia	H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]
GHS - New Zealand	Specific target organ toxicity - repeated exposure category 1
GHS - Japan	H315 - Causes skin irritation [Skin corrosion / irritation - Category 2]
GHS - Japan	H319 - Causes serious eye irritation [Serious eye damage / eye irritation - Category 2A]
GHS - New Zealand	Effects on or via lactation
GHS - Japan	H272 - May intensify fire; oxidizer [Oxidizing solids - Category 2]
GHS - Australia	H271 - May cause fire or explosion; strong oxidiser [Oxidizing liquids; Oxidizing solids - Category 1]
GHS - New Zealand	Oxidising solids category 2
LIST NAME AND SOURCE	NOTIFICATION
	No listings found on Additional Hazard Lists
	TEDX - Potential Endocrine Disruptors EU - GHS (H-Statements) Annex 6 Table 3-1 GHS - Japan GHS - New Zealand GHS - New Zealand GHS - New Zealand GHS - Japan GHS - Japan GHS - Japan GHS - New Zealand GHS - New Zealand GHS - New Zealand GHS - New Zealand

POLY[OXY(METHYL-1,2-ETHANEDIYL)], α,α',α'' - 1,2,3-PROPANETRIYLTRIS[ω -[(1-OXO-2-PROPENYL)OXY]-

ID: 52408-84-1

HAZARD DATA SOURCE: F	Pharos Chemical and Materials Library	/	HAZAF	RD SCREENING DATE: 2025-05-06 8:41:40
%: 0.0000 - 0.1000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Polymer species
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
SKI	GHS - New Zealand		Skin irritation c	ategory 2
EYE	GHS - New Zealand		Eye irritation ca	ategory 2
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	N
None found				No listings found on Additional Hazard Lists

ACETIC ACID ETHENYL ESTER, POLYMER WITH ETHENOL

ID: 25213-24-5

HAZARD DATA SOURCE: I	Pharos Chemical and Materials Library	/	HAZA	ARD SCREENING DATE: 2025-05-06 8:41:41
%: 0.0000 - 0.1000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Structure component
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No	warnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	DN
None found				No listings found on Additional Hazard Lists
SUBSTANCE NOTES:				

SILICIC ACID, CALCIUM S	SALT			ID: 1344-95-2
HAZARD DATA SOURCE:	Pharos Chemical and Materials Library		HAZARD	SCREENING DATE: 2025-05-06 8:41:42
%: 0.0000 - 0.1000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Stabilizer
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No wai	rnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			No	b listings found on Additional Hazard Lists
SUBSTANCE NOTES:				

DISTILLATES (PETROLEUI	M), STRAIGHT-RUN MIDDLE			ID: 64741-44-2
HAZARD DATA SOURCE:	Pharos Chemical and Materials Library		HAZA	ARD SCREENING DATE: 2025-05-06 8:41:44
%: 0.0000 - 0.1000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Heat or UV stabilizer

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
MAM	GHS - Japan	H335 - May cause respiratory irritation [Specific target organ toxicity - Single exposure - Category 3]
SKI	GHS - Australia	H315 - Causes skin irritation [Skin corrosion/irritation - 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 - Japan	H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]
SKI	GHS - Japan	H315 - Causes skin irritation [Skin corrosion / irritation - Category 2]
CAN	GHS - Australia	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]
MAM	GHS - Australia	H304 - May be fatal if swallowed and enters airways [Aspiration hazard - Category 1]
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists
SUBSTANCE NOTES:		

9-OCTADECENOIC ACID (Z)-, CALCIUM SALT

ID: **142-17-6**

HAZARD DATA SOURCE: I	Pharos Chemical and Materials Librar	у	HAZARD	SCREENING DATE: 2025-05-06 8:41:40
%: 0.0000 - 0.1000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Stabilizer
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No wa	rnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			No	o listings found on Additional Hazard Lists

IRON OXIDE (FE3O4)

ID: 1317-61-9

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2025-05-06 8:41:41

%: **0.0000 - 0.1000** GreenScreen: **BM-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Pigment**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification**
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: **Form-Specific Hazard: This substance's GreenScreen Benchmark or List Translator score and the applicable hazards are related to particulate inhalation, which is expected to occur only during manufacture, installation, maintenance, or demolition, due to activities such as sawing, sanding, grinding, or intensive cleaning. See HPDC's Special Conditions policy for more information. Manufacturer's Safety Data Sheet (SDS), if applicable, may offer occupational health and safety information.

CALCIUM STEARATE					ID: 1592-23-0
HAZARD DATA SOURCE:	Pharos Chemical and Materials Library		HAZARD	SCREENING DATE:	2025-05-06 8:41:41
%: 0.0000 - 0.1000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE RC	DLE: Stabilizer
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
None found			No wai	rnings found on HPD	Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION		
None found			No	listings found on Add	ditional Hazard Lists
SUBSTANCE NOTES:					

HAZARD DATA SOURCE:	Pharos Chemical and Materials Librar	y	HAZARD	SCREENING DATE: 2025-05-06 8:41:42
%: 0.0000 - 0.1000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Stabilizer
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No war	rnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			No	listings found on Additional Hazard Lists

PHOSPHOROUS ACID, TRIISODECYL ESTERID: 25448-25-3HAZARD DATA SOURCE: Pharos Chemical and Materials LibraryHAZARD SCREENING DATE: 2025-05-06 8:41:43%: 0.0000 - 0.1000GreenScreen: LT-P1RC: NoneNANO: NoSUBSTANCE ROLE: Stabilizer

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
MUL	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists
SUBSTANCE NOTES:		

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library		HAZARD	SCREENING DATE: 2025-05-06 8:41:42
%: 0.0000 - 0.1000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Surfactant
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No wa	rnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			No	o listings found on Additional Hazard Lists

C.I. PIGMENT BLUE 28				ID: 1345-16-0
HAZARD DATA SOURCE:	Pharos Chemical and Materials Librar	ry	HAZARD	SCREENING DATE: 2025-05-06 8:41:43
%: 0.0000 - 0.1000	GreenScreen: LT-1	RC: None	NANO: No	SUBSTANCE ROLE: Pigment
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
CAN	MAK		Carcinogen Group	2 - Considered to be carcinogenic for
RES	MAK		Sensitizing Substa	ance Sah - Danger of airway & skin
GEN	MAK		Germ Cell Mutage	en 3a

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
		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 v4.1 Product Standard Restricted Substances - Effective July 1, 2024
		Children's Toy Products

2-PROPENOIC ACID, ISODECYL ESTER

ID: 1330-61-6

HAZARD DATA SOURCE: F	Pharos Chemical and Materials Libr	rary	HAZARD	SCREENING DATE: 2025-05-06 8:41:44
%: 0.0000 - 0.1000	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Monomer
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
MUL	German FEA - Substances H Waters	Hazardous to	Class 3 - Severe I	Hazard to Waters
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
RESTRICTED LIST	Green Science Policy Institut	te (GSPI)	GSPI - Six Classe	es Precautionary List
			Some Solvents	
SUBSTANCE NOTES:				

2-PROPENOIC ACID, 2-METHYL-, PHOSPHINICOBIS(OXY-2,1-ETHANEDIYL) ESTER

ID: 32435-46-4

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2025-05-06 8:41:45			
%: 0.0000 - 0.1000	GreenScreen: NoGS	RC: None	NANO: No	SUBSTANCE ROLE:	Polymer species
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
None found			No w	varnings found on HPD F	Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	1	
None found				No listings found on Add	itional Hazard Lists

$\hbox{$2$-PROPENOIC ACID, 4-(1,1$-DIMETHYLETHYL)$CYLCLOHEXYL ESTER } \\$

ID: 84100-23-2

HAZARD DATA SOURCE: F	AZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2025-05-06 8:41:4		
%: 0.0000 - 0.1000	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Monomer	
HAZARD TYPE	LIST NAME AND SOURCE	Ē	WARNINGS		
MUL	German FEA - Substances Waters	Hazardous to	Class 3 - Severe I	Hazard to Waters	
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	Ē	NOTIFICATION		
None found			No	o listings found on Additional Hazard Lists	
SUBSTANCE NOTES:					

CELLULOSE, ACETATE BUTANOATE

ID: 9004-36-8

Pharos Chemical and Materials Library	/	HAZAF	RD SCREENING DATE: 2025-05-06 8:41:4
GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Viscosity modifier
LIST NAME AND SOURCE		WARNINGS	
		No	warnings found on HPD Priority Hazard Lists
LIST NAME AND SOURCE		NOTIFICATIO	N
			No listings found on Additional Hazard Lists
	GreenScreen: LT-UNK LIST NAME AND SOURCE	GreenScreen: LT-UNK RC: None LIST NAME AND SOURCE	GreenScreen: LT-UNK RC: None NANO: No LIST NAME AND SOURCE WARNINGS No

NEPHELINE SYENITE				ID: 37244-96-5
HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	/	HAZAR	RD SCREENING DATE: 2025-05-06 8:41:43
%: 0.0000 - 0.1000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Surface modifier
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No v	warnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	V
None found				No listings found on Additional Hazard Lists
SUBSTANCE NOTES:				

2-PROPANOL, 1-METHOXY- ID: **107-98-2**

HAZARD DATA SOURCE:	Pharos Chemical and Materials Lib	rary	HAZARD	SCREENING DATE: 2025-05-06 8:41:44
%: 0.0000 - 0.1000	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Dispersant
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
END	TEDX - Potential Endocrine	Disruptors	Potential Endocrin	ne Disruptor
EYE	GHS - New Zealand		Eye irritation cate	gory 2
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
RESTRICTED LIST	Green Science Policy Institu	ite (GSPI)	GSPI - Six Classe	es Precautionary List
			Some Solvents	
RESTRICTED LIST	Cradle to Cradle Products Ir (C2CPII)	nnovation Institute		0 Product Standard Restricted RSL) - Effective July 1, 2022
			Cosmetics & Pers	sonal Care Products
SUBSTANCE NOTES:				

NEODECANOIC ACID

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2025-05-06 8:41:45

%: 0.0000 - 0.1000	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Catalyst
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
EYE	GHS - New Zealand		Eye irritation categ	gory 2
AQU	GHS - New Zealand		Hazardous to the	aquatic environment - chronic category
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			No	listings found on Additional Hazard List

2-PROPENOIC ACID, 2-HYDROXYETHYL ESTER, POLYMER WITH .ALPHA.-HYDRO-.OMEGA.-HYDROXYPOLY(OXY-1,4-BUTANEDIYL) AND 1,1'-METHYLENEBIS[4-ISOCYANATOCYCLOHEXANE]

ID: 67599-25-1

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	у	HAZARD	SCREENING DATE: 2025-05-06 8:41:46
%: 0.0000 - 0.1000	GreenScreen: NoGS	RC: None	NANO: No	SUBSTANCE ROLE: Monomer
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No wa	rnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES:

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists
SUBSTANCE NOTES:		

SILICA GEL				ID: 112926-00-8
HAZARD DATA SOURCE:	Pharos Chemical and Materials Library		HAZARI	D SCREENING DATE: 2025-05-06 8:41:43
%: 0.0000 - 0.1000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Matting agent
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
MAM	GHS - Japan		•	se respiratory irritation [Specific target Single exposure - Category 3]
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			1	No listings found on Additional Hazard Lists
SUBSTANCE NOTES:				

SOYBEAN OIL, EPOXIDIZED		ID: 801		
HAZARD DATA SOURCE: P	Pharos Chemical and Materials Library	/	HAZARD	SCREENING DATE: 2025-05-06 8:41:44
%: 0.0000 - 0.1000	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Plasticizer
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
AQU	GHS - New Zealand		Hazardous to the	aquatic environment - chronic category 2
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			No	o listings found on Additional Hazard Lists
SUBSTANCE NOTES:				

DI(TRIMETHYLOLPROPANE) TETRAACRYLATE		ID: 94108-97		
HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	,	HAZAR	RD SCREENING DATE: 2025-05-06 8:41:45
%: 0.0000 - 0.1000	GreenScreen: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Polymer species
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
SKI	GHS - New Zealand		Skin irritation ca	ategory 2
EYE	GHS - New Zealand		Eye irritation ca	ategory 2
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	N
None found				No listings found on Additional Hazard Lists

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC

ID: 64742-53-6

AZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2025-05-06 8:41:		
6: 0.0000 - 0.1000	GreenScreen: LT-1	RC: None	NANO: No	SUBSTANCE ROLE: Defoamer
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
CAN	EU - Annex VI CMRs		Carcinogen Categon on animal evidence	ory 1B - Presumed Carcinogen based
MUL	ChemSec - SIN List		CMR - Carcinoger	n, Mutagen &/or Reproductive Toxicant
MUL	German FEA - Substances Hazard Waters	dous to	Class 2 - Hazard t	o Waters
CAN	GHS - Australia		H350 - May cause or 1B]	e cancer [Carcinogenicity - Category 1A
CAN	EU - GHS (H-Statements) Annex 6	6 Table 3-1	H350 - May cause or 1B]	cancer [Carcinogenicity - Category 1A
SKI	GHS - Australia		H315 - Causes sk Category 2]	in irritation [Skin corrosion/irritation -
SKI	GHS - Japan		H315 - Causes sk Category 2]	in irritation [Skin corrosion / irritation -
DEV	GHS - Australia		H361d - Suspecte [Reproductive toxi	d of damaging the unborn child city - Category 2]
CAN	EU - REACH Annex XVII CMRs		Carcinogens: Cate	egory 1B
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
RESTRICTED LIST	Cradle to Cradle Products Innovati (C2CPII)	ion Institute		Product Standard Restricted RSL) - Effective July 1, 2022
			Children's Product	ts
RESTRICTED LIST	Cradle to Cradle Products Innovati (C2CPII)	ion Institute		Product Standard Restricted RSL) - Effective July 1, 2022
			Formulated Consu	umer Products
RESTRICTED LIST	Cradle to Cradle Products Innovati (C2CPII)	ion Institute	C2C Certified v4.1 Substances - Effe	Product Standard Restricted ctive July 1, 2024
			All Products	
RESTRICTED LIST	Cradle to Cradle Products Innovati (C2CPII)	ion Institute	C2C Certified v4.1 Substances - Effe	Product Standard Restricted ctive July 1, 2024
			Cosmetics and Pe	ersonal Care Products
SUBSTANCE NOTES:				

SUBSTANCE NOTES:

HAZARD DATA SOURCE:	Pharos Chemical and Materials Librar	У	HAZARD	SCREENING DATE: 2025-05-06 8:41	
%: 0.0000 - 0.1000	GreenScreen: LT-1	RC: None	NANO: No	SUBSTANCE ROLE: Defoamer	
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS		
CAN	EU - Annex VI CMRs		Carcinogen Categon animal evidence	gory 1B - Presumed Carcinogen based	
MUL	German FEA - Substances Haz Waters	German FEA - Substances Hazardous to Waters		Class 3 - Severe Hazard to Waters	
MUL	German FEA - Substances Haz Waters	German FEA - Substances Hazardous to Waters		to Waters	
GEN	EU - Annex VI CMRs		Mutagen - Catego	ory 1B	
CAN	GHS - Australia	GHS - Australia		H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]	
GEN	GHS - Australia		H340 - May cause - Category 1A or	e genetic defects [Germ cell mutagenici 1B]	
CAN	EU - GHS (H-Statements) Anno	ex 6 Table 3-1	H350 - May cause or 1B]	e cancer [Carcinogenicity - Category 1A	
GEN	EU - GHS (H-Statements) Anno	EU - GHS (H-Statements) Annex 6 Table 3-1		e genetic defects [Germ cell mutagenicit 1B]	
SKI	GHS - Australia		H315 - Causes sk Category 2]	in irritation [Skin corrosion/irritation -	
EYE	GHS - Australia	GHS - Australia		erious eye irritation [Serious eye tion - Category 2A]	
MAM	GHS - Australia	GHS - Australia		amage to organs through prolonged or e [Specific target organ toxicity - e - Category 1]	
CAN	EU - REACH Annex XVII CMR	EU - REACH Annex XVII CMRs		egory 1B	
GEN	EU - REACH Annex XVII CMR	EU - REACH Annex XVII CMRs		ns: Category 1B	
MAM	EU - GHS (H-Statements) Anno	EU - GHS (H-Statements) Annex 6 Table 3-1		tal if swallowed and enters airways d - Category 1]	
MAM	GHS - Australia		H304 - May be fat [Aspiration hazard	tal if swallowed and enters airways	

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

HEXANEDIOIC ACID, DIISONONYL ESTER

ID: 33703-08-1

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2025-05-06 8:4		
%: 0.0000 - 0.1000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Surfactant
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No wa	rnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
RESTRICTED LIST	Green Science Policy Institu	te (GSPI)	GSPI - Six Classe	es Precautionary List
			Some Solvents	

SUBSTANCE NOTES:

$1,\!3,\!5\text{-TRIAZINE-}2,\!4,\!6(1H,\!3H,\!5H)\text{-TRIONE},\,1,\!3,\!5\text{-TRIS}(2\text{-HYDROXYETHYL})\text{-}$

ID: 839-90-7

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2025-05-06 8:41:46		
%: 0.0000 - 0.1000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Stabilizer
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
None found			No wa	rnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists
SUBSTANCE NOTES:		

9-OCTADECENOIC ACID (Z)-, ZINC SALT

ID: 557-07-3

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2025-05-06 8	
%: 0.0000 - 0.1000	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Stabilizer
HAZARD TYPE	LIST NAME AND SOURCE		WARNINGS	
MUL	German FEA - Substances H Waters	Hazardous to	Class 3 - Severe I	Hazard to Waters
ADDITIONAL LISTINGS	LIST NAME AND SOURCE		NOTIFICATION	
None found			No	listings found on Additional Hazard Lists
SUBSTANCE NOTES:				

BENZOPHENONE ID: 119-61-9

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2025-05-06 8:41:47
%: 0.0000 - 0.1000 GreenScreen: LT-1 RC: None NANO: No SUBSTANCE ROLE: Curing agent

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CAN	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
END	ChemSec - SIN List	Endocrine Disruption
CAN	CA EPA - Prop 65	Carcinogen
CAN	IARC	Group 2b - Possibly carcinogenic to humans
CAN	GHS - Japan	H350 - May cause cancer [Carcinogenicity - Category 1B]
CAN	EU - GHS (H-Statements) Annex 6 Table 3-1	H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]
AQU	GHS - New Zealand	Hazardous to the aquatic environment - acute category 1
AQU	GHS - New Zealand	Hazardous to the aquatic environment - chronic category 1
AQU	GHS - Japan	H401 - Toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 2]
AQU	GHS - Japan	H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]
CAN	GHS - Australia	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]
CAN	EU - REACH Annex XVII CMRs	Carcinogens: Category 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



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 RFCI FloorScore

ISSUE DATE: 2024-10-01 00:00:00 CERTIFIER OR LAB: SCS CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: All EXPIRY DATE: 2025-09-30 00:00:00 **Global Services**

CERTIFICATE URL:

https://cdn.scscertified.com/products/cert_pdfs/Mannington_2024_SCS-

FS-01344_s.pdf

CERTIFICATION AND COMPLIANCE NOTES: Registration # SCS-FS-01344

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.

MCS-42 CHEMICAL SEAM SEALER / VST-96 APPLICATOR BOTTLE

MANUFACTURER (OR GENERIC): Mannington Mills Inc.

HPD URL: No HPD Available

ACCESSORY TYPE: Installation Accessory

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: MCS-42 / VST-96 is designed for BioSpec® MD, BioSpec® Armor, and Color Anchor (Prism). A properly sealed seam will be as strong as the surface of the floor covering and will remain intact for the life of the floor. More information can be found at: https://mannington.widen.net/s/kj5x2xrbhx

V-88 PREMIUM ACRYLIC ADHESIVE

MANUFACTURER (OR GENERIC): Mannington Mills Inc.

HPD URL: No HPD Available ACCESSORY TYPE: Adhesive

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Mannington M-Guard V-88 is an advanced, cross-linking, moisture resistant transitional pressure sensitive adhesive featuring high aggressive peel and shear strength. This solvent-free, non-flammable, easy troweling product provides excellent bond for installations of Homogeneous & Heterogeneous Resilient Sheet and Luxury Vinyl Tile & Plank. More information can be found at: https://mannington.widen.net/s/ksk5k88wlg

HEAT WELD RODS

MANUFACTURER (OR GENERIC): Generic

HPD URL: No HPD Available

ACCESSORY TYPE: Installation Accessory

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Recommended for all installations. More information can be found at https://www.manningtoncommercial.com/resources/resilient-sheet/#technical

V-95 TWO COMPONENT HARD SET ADHESIVE

MANUFACTURER (OR GENERIC): Mannington Mills Inc.

HPD URL: No HPD Available ACCESSORY TYPE: Adhesive

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Mannington Commercial V-95 is a solvent-free, two-component, epoxy adhesive for high-performance indoor installations of Mannington Commercial luxury vinyl plank and tile, homogeneous and heterogeneous vinylbacked products. More information can be found at: https://mannington.widen.net/s/mpl8ncccbj

XPRESSSTEP SPRAY ADHESIVE

MANUFACTURER (OR GENERIC): Mannington Mills Inc.

HPD URL: No HPD Available ACCESSORY TYPE: Adhesive

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: XpressStep is a water-based spray adhesive recommended for installations of LVT and sheet vinyl over porous and non-porous substrates. More information can be found at https://www.manningtoncommercial.com/resources/resilient-sheet/#technical

MOISTURELOC

MANUFACTURER (OR GENERIC): Mannington Mills Inc.

HPD URL: No HPD Available ACCESSORY TYPE: Adhesive

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: MoistureLoc Adhesive is a one component, 100% solids, crosslinking modified silane polymer-based adhesive hat can be used for the installation of Mannington Commercial Homogeneous & Heterogeneous Resilient Sheet. More information can be found at https://www.manningtoncommercial.com/resources/resilient-sheet/#technical

MLG-33 TWO COMPONENT LOW GLOSS SEAM SEALER KIT

MANUFACTURER (OR GENERIC): Mannington Mills Inc.

HPD URL: No HPD available

ACCESSORY TYPE: Installation Accessory

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Mannington Commercial MLG-33 sealer (two- part seam sealer) is designed for certain Mannington products with low-gloss urethane-based wearlayers. A properly sealed seam will be as strong as the surface of the floor covering and will remain intact for the life of the floor. More information can be found at: https://p.widencdn.net/oznyhd/MLG-33Sealer_Specification

Section 5: General Notes

Substance ranges are provided to cover the various product thicknesses and colors and to protect the formulation of Mannington's product and suppliers.

MANUFACTURER INFORMATION

MANUFACTURER: Mannington Mills ADDRESS: 1844 US Highway 41 S.E.

Calhoun, GA 30701

 ${\sf WEBSITE:}\ \textbf{www.manningtoncommercial.com}$

CONTACT NAME: Brian Kuritz

TITLE: Director of Research and Development

PHONE: **856-935-3000**

EMAIL: Brian.Kuritz@mannington.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 HPD and

