

CLASSIFICATION: 09 65 17 Rubber Flooring

PRODUCT DESCRIPTION: Rubberway pervious rubber pavements are a flexible, porous, sustainable surfacing system that is poured in place, made from recycled post-consumer rubber and a bonding compound, designed to replace traditional cement and asphalt in numerous applications such as sidewalks, pathways, jogging trails, golf cart paths, tree wells, and more. Pervious pavement systems are recognized as a best practice by the EPA for stormwater management and are eligible for LEED credits.

Section 1: Summary

Nested Method

CONTENT INVENTORY

Inventory Reporting Format

- Nested Materials Method
 Basic Method

Threshold Disclosed Per

- Material
 Product

Threshold level

- 100 ppm
 1,000 ppm
 Per GHS SDS
 Per OSHA MSDS
 Other

Residuals/Impurities

Residuals/Impurities
Considered in 2 of 2 Materials

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

Are All Substances Above the Threshold Indicated:

Characterized Yes No
Percent Weight and Role Provided?

Screened Yes No
Using Priority Hazard Lists with Results Disclosed?

Identified Yes No
Name and Identifier Provided?

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

MATERIAL | **SUBSTANCE** | *RESIDUAL OR IMPURITY*
GREENSCREEN SCORE | HAZARD TYPE

STYRENE BUTADIENE RUBBER (POST CONSUMER) [**STYRENE BUTADIENE RUBBER (POST-CONSUMER)** **LT-UNK**] **POLYURETHANE BINDER** [**ISOCYANIC ACID, POLYMETHYLENEPOLYPHENYLENE ESTER, POLYMER WITH -HYDRO- -HYDROXYPOLY[OXY(METHYL-1,2-ETHANEDIYL)** **LT-UNK** **DIPHENYLMETHANE DIISOCYANATE (MDI) - NON ISOMER SPECIFIC** **LT-UNK** | MUL | SKI | EYE | RES | CAN **DIPHENYLMETHANE-2,4'- DIISOCYANATE (2,4'-MDI)** **LT-UNK** | MUL | SKI | EYE | RES | CAN **METHYLENE BISPHENYL DIISOCYANATE (PURE MDI)** **LT-UNK** | RES | MUL | SKI | EYE | CAN **POLYMERIC MDI (PMDI)** **LT-UNK** | RES | MUL | CAN **DIPHENYLMETHANE-2,2'-DIISOCYANATE (2,2'-MDI)** **(BENZENE, 1, 1'-METHYLENEBIS[2-ISOCYANATO])** **LT-UNK** | MUL | SKI | EYE | RES | CAN]

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

Contents highest concern GreenScreen
Benchmark or List translator Score ... LT-UNK
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): Regulatory (g/l):
Does the product contain exempt VOCs: No
Are ultra-low VOC tints available: N/A

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

Recycled content: Recycled Content
Other: No Heavy Metal Leaching
Other: ADA Compliant
Other: Water Permeability

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

- Yes
 No

PREPARER: Self-Prepared

VERIFIER:
VERIFICATION #:

SCREENING DATE: 2018-03-20

PUBLISHED DATE: 2018-04-15

EXPIRY DATE: 2021-03-20



Section 2: Content in Descending Order of Quantity

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

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

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

STYRENE BUTADIENE RUBBER (POST CONSUMER)

%: 78.0000 - 87.0000

HPD URL:

PRODUCT THRESHOLD: Other

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities have been considered

OTHER MATERIAL NOTES:

STYRENE BUTADIENE RUBBER (POST-CONSUMER)

ID: 9003-55-8

%: 100.0000 - 100.0000

GS: LT-UNK

RC:

NANO:

ROLE: Recycled rubber granules that are bound together to form a porous rubber pavement

PostC

No

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Recycled post-consumer rubber granules from passenger and truck tires free of metals.

POLYURETHANE BINDER

%: 13.0000 - 22.0000

HPD URL:

PRODUCT THRESHOLD: Other

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals have been considered

OTHER MATERIAL NOTES:

ISOCYANIC ACID, POLYMETHYLENEPOLYPHENYLENE ESTER, POLYMER WITH _-HYDRO-_ -HYDROXPOLY[OXY(METHYL-1,2-ETHANEDIYL)]

ID: 53862-89-8

%: 80.0000 - 90.0000

GS: LT-UNK

RC:
UNK

NANO:
No

ROLE: Part of the binder

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Part of the binder

DIPHENYLMETHANE DIISOCYANATE (MDI) - NON ISOMER SPECIFIC

ID: 26447-40-5

%: **5.0000 - 10.0000** GS: **LT-UNK** RC: **UNK** NANO: **No** ROLE: **Part of the binder**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
RESPIRATORY	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
RESPIRATORY	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage

SUBSTANCE NOTES: **Part of the binder****DIPHENYLMETHANE-2,4'- DIISOCYANATE (2,4'-MDI)**

ID: 5873-54-1

%: **1.0000 - 5.0000** GS: **LT-UNK** RC: **UNK** NANO: **No** ROLE: **Part of the binder**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
RESPIRATORY	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
RESPIRATORY	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage

SUBSTANCE NOTES: **Part of the binder****METHYLENE BISPHENYL DIISOCYANATE (PURE MDI)**

ID: 101-68-8

%: **1.0000 - 5.0000** GS: **LT-UNK** RC: **UNK** NANO: **No** ROLE: **Part of the binder**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY	AOEC - Asthmagens	Asthmagen (G) - generally accepted
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation

SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
RESPIRATORY	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
RESPIRATORY	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization

SUBSTANCE NOTES: Part of the binder

POLYMERIC MDI (PMDI)

ID: 9016-87-9

#: 1.0000 - 5.0000 GS: LT-UNK RC: UNK NANO: No ROLE: Part of the binder

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY	AOEC - Asthmagens	Asthmagen (G) - generally accepted
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
RESPIRATORY	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization

SUBSTANCE NOTES: Part of the binder

DIPHENYLMETHANE-2,2'-DIISOCYANATE (2,2'-MDI) (BENZENE, 1, 1'-METHYLENEBIS[2-ISOCYANATO])

ID: 2536-05-2

#: 0.1000 - 1.0000 GS: LT-UNK RC: UNK NANO: No ROLE: Part of the binder

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
RESPIRATORY	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer

SUBSTANCE NOTES: **Part of the binder**

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.

RECYCLED CONTENT

Recycled Content

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2001-11-01**

EXPIRY DATE:

CERTIFIER OR LAB: **Self-declared**

APPLICABLE FACILITIES: **We work with tire recyclers across the U.S. to source recycled rubber as close to our project sites as possible.**

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES:

OTHER

No Heavy Metal Leaching

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2012-03-20**

EXPIRY DATE:

CERTIFIER OR LAB: **Testing Services Inc**

APPLICABLE FACILITIES: **All**

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **Rubberway pervious pavement has been tested multiple times for heavy metal leaching. The results are consistently below the minimum detection limit.**

OTHER

ADA Compliant

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2012-02-24**

EXPIRY DATE:

CERTIFIER OR LAB: **Testing Services Inc**

APPLICABLE FACILITIES: **All**

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **Rubberway pervious pavement and rubber sidewalk products meet/exceed ADA compliance requirements.**

OTHER

Water Permeability

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2011-08-30**

EXPIRY DATE:

CERTIFIER OR LAB: **Testing Services Inc**

APPLICABLE FACILITIES: **All**

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **Rubberway pervious pavement has a drainage rate of 500+ gal/min/yd² and an average rainfall capacity of 1561 in/hr.**

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.

No accessories are required for this product.

Section 5: General Notes

The post-consumer recycled rubber granules that make up Rubberway pervious pavement are encapsulated in color. A variety of colors are available. A variety of binders are available for use as well, with the binder in this HPD being the most standard and widely used.



MANUFACTURER INFORMATION

MANUFACTURER: **USSA**

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Suite 250
 Irvine California 92604, United States**

WEBSITE: **<https://sustainablesurfacing.com/>**

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TITLE: **President & CEO**

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KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Hazard Types

AQU Aquatic toxicity

CAN Cancer

DEV Developmental toxicity

END Endocrine activity

EYE Eye irritation/corrosivity

GEN Gene mutation

GLO Global warming

MAM Mammalian/systemic/organ toxicity

MUL Multiple hazards

NEU Neurotoxicity

OZO Ozone depletion

PBT Persistent Bioaccumulative Toxic

PHY Physical Hazard (reactive)

REP Reproductive toxicity

RES Respiratory sensitization

SKI Skin sensitization/irritation/corrosivity

LAN Land Toxicity

NF Not found on Priority Hazard Lists

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 (insufficient data to benchmark)

LT-P1 List Translator Possible Benchmark 1

LT-1 List Translator Likely Benchmark 1

LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)

NoGS Unknown (no data on List Translator Lists)

Recycled Types

PreC Preconsumer (Post-Industrial)

PostC Postconsumer

Both Both Preconsumer and Postconsumer

Unk Inclusion of recycled content is unknown

None Does not include recycled content

Other Terms

Inventory Methods:

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material

Nested Method / Product Threshold Substances listed within each material per threshold indicated per product

Basic Method / Product Threshold Substances listed individually per threshold indicated per product

Nano Composed of nano scale particles or nanotechnology

Third Party Verified Verification by independent certifier approved by HPDC

Preparer Third party preparer, if not self-prepared by manufacturer

Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- *a method for the assessment of exposure or risk associated with product handling or use,*
- *a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.*

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.