

CLASSIFICATION: 09 65 17

PRODUCT DESCRIPTION: Rubber sidewalk is a flexible, porous paving product that includes a base layer made from 100% recycled post-consumer rubber topped with a "wear" layer of virgin rubber colored throughout to ensure colorfastness over time. The rubber granules are bound together with a binding agent and mixed and poured in place on site.

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 3 of 3 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] ETHYLENE PROPYLENE DIENE MONOMER [ACTIVE DICUMYL PEROXIDE LT-P1 | RES | AQU | PHY | SKI | EYE | MUL] 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-P1

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: ADA Compliant

Other: Water Permeability

Other: No Heavy Metal Leaching

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.hpdc-collaborative.org/hpd-2-1-standard

STYRENE BUTADIENE RUBBER (POST CONSUMER)

#: 35.0000 - 65.0000

HPD URL:

PRODUCT THRESHOLD: Other

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals 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.

ETHYLENE PROPYLENE DIENE MONOMER

#: 19.0000 - 35.0000

HPD URL:

PRODUCT THRESHOLD: Other

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities considered

OTHER MATERIAL NOTES: Wear layer

ACTIVE DICUMYL PEROXIDE

ID: 80-43-3

#: 1.0000 - 2.0000

GS: LT-P1

RC: None

NANO: No

ROLE: In EPDM

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

CHRON AQUATIC

EU - GHS (H-Statements)

H411 - Toxic to aquatic life with long lasting effects

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H242 - Heating may cause a fire

SKIN IRRITATION

EU - GHS (H-Statements)

H315 - Causes skin irritation

EYE IRRITATION

EU - GHS (H-Statements)

H319 - Causes serious eye irritation

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

SUBSTANCE NOTES: In EPDM

POLYURETHANE BINDER

?: 13.0000 - 16.0000

HPD URL:

PRODUCT THRESHOLD: Other

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities 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
RESPIRATORY	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage

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/rubber recyclers across the U.S. to source recycled, regional rubber as close to our project locations as possible.**

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES:

OTHER

ADA Compliant

CERTIFYING PARTY: **Second Party**

ISSUE DATE: **2010-03-12**

EXPIRY DATE:

CERTIFIER OR LAB: **Testing Services Inc**

APPLICABLE FACILITIES: **All**

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **Rubberway rubber sidewalk and tree wells meet/exceed ADA requirements.**

OTHER

Water Permeability

CERTIFYING PARTY: **Second Party**

ISSUE DATE: **2013-08-20**

EXPIRY DATE:

CERTIFIER OR LAB: **QAI Laboratories**

APPLICABLE FACILITIES: **All**

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **Rubberway sidewalk drains at 6 gal/min/sf and has an average rainfall capacity of 224 in/hr/sf.**

OTHER

No Heavy Metal Leaching

CERTIFYING PARTY: **Second Party**

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

EXPIRY DATE:

CERTIFIER OR LAB: **Testing Services Inc**

APPLICABLE FACILITIES: **All**

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **Rubberway rubber sidewalk has been tested for heavy metal leaching with consistent results below minimum detection limits.**

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

EPDM, which makes up the top layer of this system, is available in a variety of colors.



MANUFACTURER INFORMATION

MANUFACTURER: **USSA**

ADDRESS: **4000 Barranca Parkway
Suite 250
 Irvine California 92604, United States**

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

CONTACT NAME: **Karoleen Alexander**

TITLE: **President & CEO**

PHONE: **949-551-4696**

EMAIL: **karoleen@sustainablesurfacing.com**

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.