Safety Zone™ Sheet - Slip-Retardant Flooring
by Armstrong Flooring, Inc.

CLASSIFICATION: 09 65 16

PRODUCT DESCRIPTION: Safety Zone™ Sheet features an embossed surface made with aluminum oxide particles that are encapsulated in a polyurethane finish for enhanced traction and easy maintenance. Safety Zone Sheet can provide an added measure of safety in a multitude of spaces.

Section 1: Summary

CONTENT INVENTORY

Threshold Disclosed Per

- Material
- Product

Threshold level

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

Residuals/Impurities

- Considered
- Partially Considered
- Not Considered

All Substances Above the Threshold Indicated Are:

Characterized

- Yes Ex/SC
- Yes
- No

% weight and role provided for all substances.

Screened

- Yes Ex/SC
- Yes
- No

All substances screened using Priority Hazard Lists with results disclosed.

Identified

- Yes Ex/SC
- Yes
- No

All substances disclosed by Name (Specific or Generic) and 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.

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

SAFETY ZONE™ SHEET - SLIP-RETARDANT FLOORING |

- CALCIUM CARBONATE LT-UNK
- POLYVINYL CHLORIDE LT-1
- DI(2-ETHYLHEXYL) Terephthalate BM-3dg
- TITANIUM DIOXIDE LT-1
- 1,3-PROPANEDIONE, 1,3-DIPHENYL-
- HEXANEDIOIC ACID, POLMER WITH 1,4-BUTANEDIOL AND 1,1'-METHYLENEBIS[4-ISOCYANATOBENZENE] LT-UNK
- SOYBEAN OIL, EPOXIDIZED LT-UNK
- ALUMINUM OXIDE BM-2
- N-ETHYL-2-PYRROLIDONE LT-1
- PHOSPHOROUS ACID, 2-ETHYLHEXYL DIPHENYL ESTER LT-UNK

NUMBER OF GREENSCREEN BM-4/BM3 CONTENTS ... 0

Contents highest concern GreenScreen Benchmark or List translator Score ... LT-1

INVENTORY AND SCREENING NOTES:

Residuals/impurities are quantitatively measured and are displayed in the HPD when greater than 1000 ppm.

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: FloorScore®
LCA: Environmental Product Declaration

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #: 

SCREENING DATE: 2020-04-21

PUBLISHED DATE: 2020-04-21

EXPIRY DATE: 2023-04-21
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 2.1.1, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-1-1-standard](http://www.hpd-collaborative.org/hpd-2-1-1-standard)

SAFETY ZONE™ SHEET - SLIP-RETARDANT FLOORING

PRODUCT THRESHOLD: 1000 ppm
RESIDUALS AND IMPURITIES CONSIDERED: Yes
RESIDUALS AND IMPURITIES NOTES: Residuals/impurities are quantitatively measured and are displayed in the HPD when greater than 1000 ppm.

CALCIUM CARBONATE

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2020-04-21
%: 40.00 - 50.00
GS: LT-UNK
RC: None
NANO: No
ROLE: Filler
Hazard Type
Agency and List Titles
WARNINGS
None found
No warnings found on HPD Priority Hazard Lists
SUBSTANCE NOTES: Limestone filler

POLYVINYL CHLORIDE

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2020-04-21
%: 40.00 - 50.00
GS: LT-P1
RC: None
NANO: Unknown
ROLE: Binder
Hazard Type
Agency and List Titles
WARNINGS
RESPIRATORY
AOEC - Asthmagens
Asthmagen (Rs) - sensitizer-induced
SUBSTANCE NOTES: Binder component

DI(2-ETHYLHEXYL) TEREPTHALATE

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2020-04-21
%: 10.00 - 15.00
GS: BM-3dg
RC: None
NANO: Unknown
ROLE: Plasticizer
### TITANIUM DIOXIDE

**ID:** 13463-67-7  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-04-21

<table>
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</thead>
<tbody>
<tr>
<td>1.00 - 5.00</td>
<td>LT-1</td>
<td>None</td>
<td>Unknown</td>
<td>Pigment</td>
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</table>

**HAZARD TYPE**  
AGENCY AND LIST TITLES  
WARNINGS

- **CANCER**  
  - **US CDC - Occupational Carcinogens:** Occupational Carcinogen
  - **CA EPA - Prop 65:** Carcinogen - specific to chemical form or exposure route
  - **IARC:** Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources

- **ENDOCRINE**  
  - **TEDX - Potential Endocrine Disruptors:** Potential Endocrine Disruptor

**SUBSTANCE NOTES:**  
Titanium dioxide is listed as a hazard in respirable form. Titanium dioxide is not in a respirable form in the final product.

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

**ID:** 120-46-7  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-04-21

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<tbody>
<tr>
<td>1.00 - 2.00</td>
<td>NoGS</td>
<td>None</td>
<td>Unknown</td>
<td>Stabilizer</td>
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**HAZARD TYPE**  
AGENCY AND LIST TITLES  
WARNINGS

None found

**SUBSTANCE NOTES:** Binder component

### HEXANEDIOIC ACID, POLYMER WITH 1,4-BUTANEDIOL AND 1,1'-METHYLENEBIS[4-ISOCYANATOXYLBENZENE]

**ID:** 26375-23-5  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-04-21

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<td>LT-UNK</td>
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**HAZARD TYPE**  
AGENCY AND LIST TITLES  
WARNINGS

None found

**SUBSTANCE NOTES:** Binder component
### SOYBEAN OIL, EPOXIDIZED

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<td>%: 0.50 - 2.00</td>
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<td>RC: None</td>
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<td>AGENT AND LIST TITLES</td>
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<tr>
<td>WARNINGS</td>
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</table>

None found

No warnings found on HPD Priority Hazard Lists

### ALUMINUM OXIDE

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<td>GS: BM-2</td>
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<td>HAZARD TYPE</td>
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<tr>
<td>WARNINGS</td>
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RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

### N-ETHYL-2-PYRROLIDONE

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<th>HAZARD SCREENING DATE: 2020-04-21</th>
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<tbody>
<tr>
<td>%: 0.10 - 0.50</td>
<td>GS: LT-1</td>
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<td>RC: None</td>
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<td>AGENT AND LIST TITLES</td>
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<tr>
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DEVELOPMENTAL

EU - GHS (H-Statements)

H360D - May damage the unborn child

REPRODUCTIVE

EU - REACH Annex XVII CMRs

Toxic to Reproduction Category 2 - Substances which should be regarded as if they impair fertility or cause Developmental Toxicity in humans

MULTIPLE

ChemSec - SIN List

CMR - Carcinogen, Mutagen &/or Reproductive Toxicant

REPRODUCTIVE

GHS - Japan

Toxic to reproduction - Category 1B [H360]

REPRODUCTIVE

EU - Annex VI CMRs

Reproductive Toxicity - Category 1B

DEVELOPMENTAL

GHS - Australia

H360D - May damage the unborn child

### PHOSPHOROUS ACID, 2-ETHYLHEXYL DIPHENYL ESTER

<table>
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<tr>
<th>ID: 15647-08-2</th>
<th>Safety Zone Sheet - Slip-Retardant Flooring</th>
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<tr>
<td>ROLE:</td>
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</table>

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<th>WARNINGS</th>
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<td>None found</td>
<td></td>
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</table>

SUBSTANCE NOTES: Binder component
Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

**VOC EMISSIONS**

<table>
<thead>
<tr>
<th>CERTIFYING PARTY</th>
<th>FloorScore®</th>
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<tbody>
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<td><strong>CERTIFYING PARTY:</strong> Third Party</td>
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</tr>
<tr>
<td><strong>APPLICABLE FACILITIES:</strong> Braeside</td>
<td><strong>APPLICABLE FACILITIES:</strong> Braeside</td>
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<td><strong>ISSUE DATE:</strong> 2019-09-01</td>
<td><strong>ISSUE DATE:</strong> 2019-01-01</td>
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<td><strong>EXPIRY DATE:</strong> 2020-08-31</td>
<td><strong>EXPIRY DATE:</strong> 2024-01-01</td>
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<td><strong>CERTIFIER OR LAB:</strong> SCS Global Services</td>
<td><strong>CERTIFIER OR LAB:</strong> ULE</td>
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</table>

**CERTIFICATION AND COMPLIANCE NOTES:**

LCA

Environmental Product Declaration

<table>
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</tr>
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**CERTIFICATION AND COMPLIANCE NOTES:**

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.

**HEAT WELD OR S-761 SEAM ADHESIVE**

<table>
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<tr>
<th>HPD URL</th>
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</table>

**CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:**

Adhesives recommended for installation include the following: Full-Spread Adhesives S-599, Flip® Spray Adhesive, S-240 Epoxy, S-580 Flash Cove Adhesive Seams – Heat Weld or S-761 Seam Adhesive See [www.armstrongflooring.com](http://www.armstrongflooring.com) for more information.

Section 5: General Notes

This HPD is provided solely for the intended recipient in connection with its assessment of products and for no other purpose. In providing information Armstrong Flooring expresses no opinion and makes no representations as to the applicability, suitability, accuracy, or completeness of the declaration form or the standards rules classifications warnings or criteria utilized or referenced therein. Information herein is qualified in the entirety by reference to the applicable product Safety Data Sheet (SDS) which can be located at [www.armstrongflooring.com](http://www.armstrongflooring.com) as well as by the additional ingredient information provided for specified substances. Please refer to the Armstrong Flooring website for more information on this product.
Section 6: References

MANUFACTURER INFORMATION

**MANUFACTURER:** Armstrong Flooring, Inc.
**ADDRESS:** 29-39 Mills Road
Braeside Victoria 3195, Australia
**WEBSITE:** www.armstrongflooring.com

**CONTACT NAME:** TechLine
**TITLE:** Customer Service
**PHONE:** 1-888-276-7876
**EMAIL:** fpotechline@armstrongflooring.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.