Aquaflex Resilient Tile - LVT by Aquaflex Inc

Health Product Declaration v2.2 created via HPDC Online Builder

HPD UNIQUE IDENTIFIER: 20446
CLASSIFICATION: 096500

PRODUCT DESCRIPTION: A waterproof glue-down LVT designed for the patented Aquaflex waterproof installation system. Aquaflex was the first to invent, patent and manufacture a completely waterproof installation system. As a natural evolution, Aquaflex has focused on improving the backing material chemistry in order to enhance waterproof bonding characteristics. Aquaflex Resilient Floor - LVT is the product of that development effort.

Section 1: Summary

Basic Method / Product Threshold

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
- 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
AQUAFLEX RESILIENT TILE - LVT |
- CALCIUM CARBONATE BM-3
- POLYVINYL CHLORIDE LT-P1
- RES BIS(2-ETHYLHEXYL) TEREPHTHALATE BM-3dg
- EPOXIDIZED SOYBEAN OIL LT-UNK
- ZINC STEARATE LT-UNK
- 1,6-HEXANEDIOL DIACRYLATE LT-P1
- SKI | EYE |
- MUL CALCIUM STEARATE LT-UNK
- DIPOROPYLE GLYCOL DIACRYLATE LT-UNK
- 2-(METHACRYLOXY)ETHANOL (PRIMARY CASRN IS 868-77-9) LT-UNK
- SKI | EYE |
- MUL GLASS / MINERAL FIBER (POST-CONSUMER RECYCLED) LT-UNK
- POLY(OXY(METHYL-1,2-ETHANEDIYL)), ALPHA,ALPHA'-(2,2-DIMETHYL-1,3-PROPANEDIYL)BIS(OMEGA-(1-OXO-2-PROPEN-1-YL)OXY) LT-P1
- MUL BENZOYL ISOPROPANOL LT-UNK
- 2,4,6-TRIMETHYLBENZOYL DIPHENYLPHOSPHINE OXIDE LT-P1

Number of Greenscreen BM-4/BM3 contents ... 1
Contents highest concern GreenScreen Benchmark or List translator Score ... LT-P1
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

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: CHPS High Performance Products Database - Low Emitting Material
VOC emissions: FloorScore® Indoor Air Quality Certified to SCS-EC10.3-2014 v4.0
Other: Phthalate Analysis
Other: ASTM F2199 - Dimensional Stability

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1 and Option 2
<table>
<thead>
<tr>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>☐ Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>☒ No</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>VERIFIER:</td>
<td>PUBLISHED DATE: 2020-06-11</td>
</tr>
<tr>
<td></td>
<td>VERIFICATION #:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EXPIRY DATE: 2023-06-11</td>
</tr>
</tbody>
</table>

Aquaflex Resilient Tile - LVT
hpdrepository.hpd-collaborative.org

HPD v2.2 created via HPDC Builder Page 2 of 11
Section 2: Content in Descending Order of Quantity

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

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

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.1.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-1-standard

AQUAFLEX RESILIENT TILE - LVT

PRODUCT THRESHOLD: 100 ppm
RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Polyvinyl chloride (PVC) is produced from vinyl chloride monomer (VCM) through a process known as polymerization, where VCM is transformed into a white powder called PVC resin. Polymerization is a one-way reaction that has the same effect as frying an egg: once it is fried, it cannot change back. As a result, PVC resin does not revert back to VCM. Not only does Aquaflex Resilient Flooring - LVT meet the requirements set by the EPA and by NSF Standard 61, but it consistently tests “Non-Detect” for vinyl chloride monomer per the Agency for Toxic Substances and Disease Registry.

OTHER PRODUCT NOTES: None

CALCIUM CARBONATE

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2020-06-11

%: 64.5000 - 64.5000
GS: BM-3
RC: None
NANO: No
SUBSTANCE ROLE: Filler

HAZARD TYPE
AGENCY AND LIST TITLES
WARNINGS

None found
No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Naturally occurring both geologically (limestone rock, marble) and biologically (egg shell and sea shells of marine organisms).

POLYVINYL CHLORIDE

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2020-06-11

%: 24.8000 - 24.8000
GS: LT-P1
RC: None
NANO: No
SUBSTANCE ROLE: Polymer species

HAZARD TYPE
AGENCY AND LIST TITLES
WARNINGS

RESPIRATORY
AOEC - Asthmagens
Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: Virgin PVC formulation means all ingredients of formulation are known and requires no need for this HPD to have an “undisclosed” % content of an otherwise embarrassing chemical raw material such as toxic heavy metals or phthalate plasticizer. Virgin PVC formulation also contributes to better dimensional stability performance of the product as demonstrated per ASTM F2199 for shrinkage and curling performance.
### BIS(2-ETHYLHEXYL) TEREPTHALATE

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-06-11  
**%:** 9.5000 - 9.5000  
**GS:** BM-3dg  
**RC:** None  
**NANO:** No  
**SUBSTANCE ROLE:** Plasticizer  

**SUBSTANCE NOTES:** DOTP plasticizer permits classification in “phthalate free” LVT products. See Independent test report. DOTP (also referred to as DEHT) is a general purpose "non-phthalate" plasticizer considered safer than ortho-phthalate plasticizers due to its excellent toxicological profile. Terephthalates exhibit none of the peroxisome proliferation of liver enzymes that some ortho-phthalates have shown in several studies.

### EPOXIDIZED SOYBEAN OIL

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-06-11  
**%:** 0.6000 - 0.6000  
**GS:** LT-UNK  
**RC:** None  
**NANO:** No  
**SUBSTANCE ROLE:** Stabilizer  

**SUBSTANCE NOTES:** ESBO is manufactured from soybean oil through the process of epoxidation.

### ZINC STEARATE

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-06-11  
**%:** 0.3000 - 0.3000  
**GS:** LT-UNK  
**RC:** None  
**NANO:** No  
**SUBSTANCE ROLE:** Stabilizer  

**SUBSTANCE NOTES:** Zinc stearate is a “zinc soap” that is widely used industrially. In this context, soap is used in its formal sense, a metal "salt" of a fatty acid. It is a white solid that repels water.

### 1,6-HEXANEDIOL DIACRYLATE

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-06-11  
**%:** 0.1000 - 0.1000  
**GS:** LT-P1  
**RC:** None  
**NANO:** No  
**SUBSTANCE ROLE:** Curing agent
### Calcium Stearate

**ID:** 1592-23-0  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-06-11  
**%:** 0.1000 - 0.1000  
**GS:** LT-UNK  
**RC:** None  
**NANO:** No  
**SUBSTANCE ROLE:** Stabilizer

**WARNINGS:**
- **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
- **SKIN SENSITIZE**
  - **EU - GHS (H-Statements):** H317 - May cause an allergic skin reaction
  - **MAK:** Sensitizing Substance Sh - Danger of skin sensitization

**SUBSTANCE NOTES:** Used in PUR coating formulation. Calcium stearate is a carboxylate of calcium, classified as a calcium soap. It is a component of some lubricants, surfactants, as well as many foodstuffs. It is a white waxy powder.

### Dipropylene Glycol Diacrylate

**ID:** 57472-68-1  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-06-11  
**%:** 0.1000 - 0.1000  
**GS:** LT-UNK  
**RC:** None  
**NANO:** No  
**SUBSTANCE ROLE:** Monomer

**WARNINGS:**
- **None found**
- **No warnings found on HPD Priority Hazard Lists**

**SUBSTANCE NOTES:** Used in PUR coating formulation.

### 2-(Methacryloyloxy)ethanol (Primary CASRN IS 868-77-9)

**ID:** 141668-69-1  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-06-11  
**%:** 0.1000 - 0.1000  
**GS:** LT-UNK  
**RC:** None  
**NANO:** No  
**SUBSTANCE ROLE:** Monomer

**WARNINGS:**
- **None found**
- **No warnings found on HPD Priority Hazard Lists**
### Trimethylolpropane Triacrylate

**ID:** 15625-89-5

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-06-11

<table>
<thead>
<tr>
<th>%: 0.1000 - 0.1000</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>SUBSTANCE ROLE: Monomer</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKIN IRRITATION</td>
<td>EU - GHS (H-Statements)</td>
<td>H315 - Causes skin irritation</td>
</tr>
<tr>
<td>SKIN SENSITIZE</td>
<td>EU - GHS (H-Statements)</td>
<td>H317 - May cause an allergic skin reaction</td>
</tr>
<tr>
<td>EYE IRRITATION</td>
<td>EU - GHS (H-Statements)</td>
<td>H319 - Causes serious eye irritation</td>
</tr>
<tr>
<td>SKIN SENSITIZE</td>
<td>MAK</td>
<td>Sensitizing Substance Sh - Danger of skin sensitization</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Used in PUR coating formulation.

### Tripropylene Glycol Diacrylate

**ID:** 42978-66-5

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-06-11

<table>
<thead>
<tr>
<th>%: 0.1000 - 0.1000</th>
<th>GS: LT-P1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>SUBSTANCE ROLE: Monomer</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESPIRATORY</td>
<td>AOEC - Asthmagens</td>
<td>Asthmagen (Rs) - sensitizer-induced</td>
</tr>
<tr>
<td>CANCER</td>
<td>IARC</td>
<td>Group 2b - Possibly carcinogenic to humans</td>
</tr>
<tr>
<td>SKIN IRRITATION</td>
<td>EU - GHS (H-Statements)</td>
<td>H315 - Causes skin irritation</td>
</tr>
<tr>
<td>SKIN SENSITIZE</td>
<td>EU - GHS (H-Statements)</td>
<td>H317 - May cause an allergic skin reaction</td>
</tr>
<tr>
<td>EYE IRRITATION</td>
<td>EU - GHS (H-Statements)</td>
<td>H319 - Causes serious eye irritation</td>
</tr>
<tr>
<td>SKIN SENSITIZE</td>
<td>MAK</td>
<td>Sensitizing Substance Sh - Danger of skin sensitization</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Used in PUR coating formulation.
### Glass / Mineral Fiber (Post-Consumer Recycled)

**ID:** 65997-17-3

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE</th>
<th>2020-06-11</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.0100 - 0.0500</td>
<td>LT-UNK</td>
<td>RC: None</td>
<td>NANO: No</td>
</tr>
</tbody>
</table>

**HAZARD TYPE:**

- **CHRON AQUATIC**
- **SKIN IRRITATION**
- **SKIN SENSITIZE**
- **EYE IRRITATION**
- **MULTIPLE**
- **SKIN SENSITIZE**

**WARNINGS:**

- **H411 - Toxic to aquatic life with long lasting effects**
- **H315 - Causes skin irritation**
- **H317 - May cause an allergic skin reaction**
- **H319 - Causes serious eye irritation**
- **Class 2 - Hazard to Waters**
- **Danger of skin sensitization**

**SUBSTANCE NOTES:**

- Used in PUR coating formulation.

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### Poly(Oxy(Methyl-1,2-Ethanediyl)), Alpha,Alpha’-(2,2-Dimethyl-1,3-Propanediyl)bis(omega-((1-Oxo-2-Propen-1-Yl)oxy)-

**ID:** 84170-74-1

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE</th>
<th>2020-06-11</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.0100 - 0.0500</td>
<td>LT-P1</td>
<td>RC: None</td>
<td>NANO: No</td>
</tr>
</tbody>
</table>

**HAZARD TYPE:**

- **MULTIPLE**

**WARNINGS:**

- **Class 2 - Hazard to Waters**

**SUBSTANCE NOTES:**

- Used in PUR coating formulation.

---

### Benzyol Isopropanol

**ID:** 7473-98-5

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE</th>
<th>2020-06-11</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.0100 - 0.0500</td>
<td>LT-UNK</td>
<td>RC: None</td>
<td>NANO: No</td>
</tr>
</tbody>
</table>

**HAZARD TYPE:**

- **None found**

**WARNINGS:**

- No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:**

- Used in PUR coating formulation.
**2,4,6-TRIMETHYLBENZOYL DIPHENYLPHOSPHINE OXIDE**

ID: 75980-60-8

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-06-11

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>SUBSTANCE ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0100 - 0.0500</td>
<td>LT-P1</td>
<td>None</td>
<td>No</td>
<td>Catalyst</td>
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</table>

**HAZARD TYPE**  
**AGENCY AND LIST TITLES**  
**WARNINGS**

<table>
<thead>
<tr>
<th>REPRODUCTIVE</th>
<th>EU - GHS (H-Statements)</th>
<th>H361f - Suspected of damaging fertility</th>
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</thead>
<tbody>
<tr>
<td>MULTIPLE</td>
<td>German FEA - Substances Hazardous to Waters</td>
<td>Class 2 - Hazard to Waters</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Used in PUR coating formulation.
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.

<table>
<thead>
<tr>
<th>Certification and Compliance</th>
<th>CHPS High Performance Products Database - Low Emitting Material</th>
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</thead>
<tbody>
<tr>
<td>CERTIFYING PARTY:</td>
<td>Third Party</td>
</tr>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>All</td>
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<tr>
<td>ISSUE DATE:</td>
<td>2019-09-26</td>
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<tr>
<td>EXPIRY DATE:</td>
<td>2020-12-31</td>
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<tr>
<td>CERTIFIER OR LAB:</td>
<td>MAS</td>
</tr>
</tbody>
</table>

**VOC EMISSIONS**

**FloorScore® Indoor Air Quality Certified to SCS-EC10.3-2014 v4.0**

| CERTIFYING PARTY: | Third Party |
| APPLICABLE FACILITIES: | All |
| CERTIFICATE URL: | https://www.dropbox.com/s/th3ps8osvwlm1w9/t-Aquaflex_FloorScore%20Cert_2019.pdf?dl=0 |
| ISSUE DATE: | 2019-03-18 |
| EXPIRY DATE: | |
| CERTIFIER OR LAB: | SCSglobal |

**CERTIFICATION AND COMPLIANCE NOTES:**

Conforms to the CDPH/EHLB Standard Method v1.2-2017 (California Section 01350), effective April 1, 2017, for the school classroom, private office, and single-family residence parameters when modeled as Flooring. Also, conforms to the SCAQMD Rule 1168 - Adhesive and Sealants (January 2005); Hong Kong Air Pollution Control (VOC) Regulation.

**OTHER**

**Phthalate Analysis**

| CERTIFYING PARTY: | Third Party |
| APPLICABLE FACILITIES: | All |
| CERTIFICATE URL: | https://www.dropbox.com/s/l2lzrwam8y02vkp/t-CPSC_Consumer%20Product%20Safety_Phthalates.pdf?dl=0 |
| ISSUE DATE: | 2015-06-05 |
| EXPIRY DATE: | |
| CERTIFIER OR LAB: | ATS |

**CERTIFICATION AND COMPLIANCE NOTES:**

Declared phthalate FREE.

**OTHER**

**ASTM F2199 - Dimensional Stability**

| CERTIFYING PARTY: | Third Party |
| APPLICABLE FACILITIES: | All |
| CERTIFICATE URL: | https://www.dropbox.com/s/xgmgvljt1341qq0/t-ASTM%20F2199-09.pdf?dl=0 |
| ISSUE DATE: | 2015-02-20 |
| EXPIRY DATE: | |
| CERTIFIER OR LAB: | SGS |

**CERTIFICATION AND COMPLIANCE NOTES:**

This test method covers the determination of the change in linear dimensions of resilient floor tile/plank products after exposure to heat and reconditioning to ambient temperature.

**OTHER**

**ASTM E90, ASTM E492 and ASTM E2179 - Acoustic Properties**
CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: All
CERTIFICATE URL: https://www.dropbox.com/s/lsq1pyk59eks6sv/t-Aquaflex_Acoustic%20Testing_Intertek_Delta%20IIC_Oct%202017.pdf?dl=0

CERTIFICATION AND COMPLIANCE NOTES: Developing a measured acoustical attenuation performance is just one more step in the evolution of our Aquaflex chemistry. This year we received our second US patent further supporting our claims as the flooring industries first waterproof installation system. Now with the acoustic performance documented (ΔIIC 14), we can safely claim Aquaflex as a viable strategy to reduce sound transmission on par with many secondary acoustic underlayment materials.

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.

AQUAFLEX ADHESIVE
HPD URL: https://www.dropbox.com/s/65u30hrmlse516q/t-Aquaflex.pdf?dl=0

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:
Aquaflex Resilient Flooring - LVT combined with the Aquaflex Installation System (Adhesive + Patch & Skim) provide for a one-manufacturer/one-warranty guarantee of performance to UNLIMITED concrete and topical moisture/pH exposure. No moisture testing required. No moisture mitigation. Acoustic properties built-in. Moisture vapor barrier properties built-in. The complete Aquaflex solution is the first time a flooring material was designed to marry an existing patented waterproof installation system. A complete reverse product development process versus industry standard.

AQUAFLEX PATCH & SKIM
HPD URL: https://www.dropbox.com/s/yzwfuvct8wwd2wi/t-Aquaflex_Patch%26Skim.pdf?dl=0

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:
Aquaflex Resilient Flooring - LVT combined with the Aquaflex Installation System (Adhesive + Patch & Skim) provide for a one-manufacturer/one-warranty guarantee of performance to UNLIMITED concrete and topical moisture/pH exposure. No moisture testing required. No moisture mitigation. Acoustic properties built-in. Moisture vapor barrier properties built-in. The complete Aquaflex solution is the first time a flooring material was designed to marry an existing patented waterproof installation system. A complete reverse product development process versus industry standard.

Section 5: General Notes
MANUFACTURER INFORMATION

MANUFACTURER: Aquaflex Inc
ADDRESS: 1790 Boyd St
Santa Ana California 92705, United States
WEBSITE: https://aquaflexinc.com/

CONTACT NAME: Benny Dickens
TITLE: Founder/CEO/Chemist
PHONE: 8003593201
EMAIL: info@aquaflexinc.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
SK1 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 (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.)
NoGS No GreenScreen.

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:
GHSA 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 for compliance with the HPD standard noted.