Section 1: Summary

Roppe Envire® Rubber Sheet and Tile by Roppe Corporation

CLASSIFICATION: 09650

PRODUCT DESCRIPTION: Roppe Envire® is a smooth surfaced, homogeneous vulcanized rubber product available as sheet or tile designed for permanent flooring installations. The natural durability and dimensional stability of Envire make this flooring ideal for most high traffic commercial installations. Envire’s formulation is screened according to current authoritative lists and does not contain any chemicals contained in the Living Future Institute’s Red List (Living Building Challenge, Imperative 10), substances of very high concern (SVHC) on the REACH candidate list, or substances restricted under REACH.

CONTENT INVENTORY

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
ROPPENVIÈRE® RUBBER SHEET AND TILE | KAOLIN CLAY | LT-UNK | CAN
STYRENE BUTADIENE RUBBER (SBR) | LT-UNK | UNDISCLOSED BM-1 | CAN
PRECIPITATED SILICA | LT-UNK | UNDISCLOSED BM-1 | CAN
ETHYLENE/PROPYLENE/DIENE TERPOLYMER (EPDM) | LT-UNK | UNDISCLOSED BM-1 | AQU
TITANIUM DIOXIDE | LT-1 | END
FERRIC OXIDE | BM-2 | CAN

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

VOC emissions: RFCI FloorScore IAQ Certified
Management: ISO 14001:2015 Environmental management systems
Multi-attribute: NSF/ANSI 332 Resilient Flooring: Gold

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified? | PREPARER: Self-Prepared | VERIFIER:
Yes | VERIFICATION #:
No

SCREENING DATE: 2017-11-22
PUBLISHED DATE: 2017-12-19
EXPIRY DATE: 2020-11-22

Roppe Envire Rubber Sheet and Tile
hpdrepository.hpd-collaborative.org
HPD v2.1 created via HPDC Builder
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

ROPPE ENVIRE® RUBBER SHEET AND TILE

PRODUCT THRESHOLD: 100 ppm
RESIDUALS AND IMPURITIES CONSIDERED: Yes
OTHER PRODUCT NOTES: None.

KAOLIN CLAY

ID: 1332-58-7
%
30.0000 - 42.0000
GS: LT-UNK
RC: None
NANO: No
ROLE: Mineral Filler

HAZARDS:
CANCER
AGENCY(IES) WITH WARNINGS:
MAC
Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES:
Hazards as shown above may not represent a significant health risk, as exposure pathways and other factors in risk assessment are not defined. Hazards are applicable to the initial substance, whereas the end product is a solid vulcanized rubber flooring part.

STYRENE BUTADIENE RUBBER (SBR)

ID: 9003-55-8
%
28.0000 - 40.0000
GS: LT-UNK
RC: None
NANO: No
ROLE: Polymer

HAZARDS:
None Found
AGENCY(IES) WITH WARNINGS:
No warnings found on HPD Priority lists

SUBSTANCE NOTES:
None.

UNDISCLOSED

%
4.0000 - 9.0000
GS: BM-1
RC: None
NANO: No
ROLE: Mineral Filler

HAZARDS:
CANCER
AGENCY(IES) WITH WARNINGS:
MAC
Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES:
Hazards as shown above may not represent a significant health risk, as exposure pathways and other factors in risk assessment are not defined. Hazards are applicable to the initial substance, whereas the end product is a solid vulcanized rubber flooring part.
## Precipitated Silica

**ID:** 112926-00-8  
**%:** 4.0000 - 9.0000  
**GS:** LT-UNK  
**RC:** None  
**NANO:** No  
**ROLE:** Mineral Filler  

**HAZARDS:**  
None Found  
No warnings found on HPD Priority lists  

**SUBSTANCE NOTES:** None.

## Ethylene/Propylene/Diene Terpolymer (EPDM)

**ID:** 25038-36-2  
**%:** 3.0000 - 6.0000  
**GS:** LT-UNK  
**RC:** None  
**NANO:** No  
**ROLE:** Polymer  

**HAZARDS:**  
None Found  
No warnings found on HPD Priority lists  

**SUBSTANCE NOTES:** None.

## Undisclosed

**%:** 1.0000 - 1.2000  
**GS:** BM-1  
**RC:** None  
**NANO:** No  
**ROLE:** Processing Aid  

**HAZARDS:**  
ACUTE AQUATIC  
EU - R-phrases  
R50 - Very Toxic to Aquatic Organisms  

RESPIRATORY  
AOEC - Asthmagens  
Asthmagen (ARs) - sensitizer-induced - inhalable forms only  

ACUTE AQUATIC  
EU - GHS (H-Statements)  
H400 - Very toxic to aquatic life  

CHRON AQUATIC  
EU - GHS (H-Statements)  
H410 - Very toxic to aquatic life with long lasting effects  

MULTIPLE  
German FEA - Substances Hazardous to Waters  
Class 2 - Hazard to Waters  

**SUBSTANCE NOTES:** Hazards as shown above may not represent a significant health risk, as exposure pathways and other factors in risk assessment are not defined. Hazards are applicable to the initial substance, whereas the end product is a solid vulcanized rubber flooring part.

## Undisclosed

**%:** 0.7000 - 0.8000  
**GS:** LT-UNK  
**RC:** None  
**NANO:** No  
**ROLE:** Processing Aid  

**HAZARDS:**  
None Found  
No warnings found on HPD Priority lists  

**SUBSTANCE NOTES:** None.

## Undisclosed
### FERRIC OXIDE

**ID:** 1309-37-1

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<th>%: 0.5000 - 4.0000</th>
<th>GS: BM-2</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Pigment</th>
</tr>
</thead>
</table>

**HAZARDS:**

**CANCER** - MAK

Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

**SUBSTANCE NOTES:** Hazards as shown above may not represent a significant health risk, as exposure pathways and other actors in risk assessment are not defined. Hazards are applicable to the initial substance, whereas the end product is a solid vulcanized rubber flooring part.

### UNDISCLOSED

<table>
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<tr>
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<th>NANO: No</th>
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</table>

**HAZARDS:**

None Found

No warnings found on HPD Priority lists

**SUBSTANCE NOTES:** None.

### UNDISCLOSED

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<th>%: 0.5000 - 2.0000</th>
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<th>RC: None</th>
<th>NANO: No</th>
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**HAZARDS:**

None Found

No warnings found on HPD Priority lists

**SUBSTANCE NOTES:** None.
### UNDISCLOSED

#### 0.4000 - 0.8000%

<table>
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<tr>
<th>Substance</th>
<th>GS</th>
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<tbody>
<tr>
<td>LT-P1</td>
<td>None</td>
<td>None</td>
<td>No</td>
<td>Processing Aid</td>
</tr>
</tbody>
</table>

#### Hazards:
- **EYE IRRITATION**
  - EU - R-phrases
  - R36 - Irritating to eyes
- **SKIN IRRITATION**
  - EU - R-phrases
  - R38 - Irritating to skin
- **SKIN SENSITIZE**
  - EU - R-phrases
  - R43 - May cause sensitization by skin contact
- **ACUTE AQUATIC**
  - EU - R-phrases
  - R51 - Toxic to Aquatic Organisms
- **CHRON AQUATIC**
  - EU - GHS (H-Statements)
  - H411 - Toxic to aquatic life with long lasting effects
- **SKIN SENSITIZE**
  - EU - GHS (H-Statements)
  - H315 - Causes skin irritation
  - H317 - May cause an allergic skin reaction
  - H319 - Causes serious eye irritation
- **MULTIPLE**
  - German FEA - Substances Hazardous to Waters
  - Class 2 - Hazard to Waters
  - MAK
  - Sensitizing Substance Sh - Danger of skin sensitization

#### Substance Notes:
Hazards as shown above may not represent a significant health risk, as exposure pathways and other factors in risk assessment are not defined. Hazards are applicable to the initial substance, whereas the end product is a solid vulcanized rubber flooring part.

### UNDISCLOSED

#### 0.4000 - 0.5200%

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<td>None</td>
<td>No</td>
<td>Processing Aid</td>
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</table>

#### Hazards:
- **PBT**
  - EC - CEPA DSL
  - Persistent, Bioaccumulative and inherently Toxic (PBiTE) to the Environment (based on aquatic organisms)
- **MULTIPLE**
  - German FEA - Substances Hazardous to Waters
  - Class 2 - Hazard to Waters

#### Substance Notes:
Hazards as shown above may not represent a significant health risk, as exposure pathways and other factors in risk assessment are not defined. Hazards are applicable to the initial substance, whereas the end product is a solid vulcanized rubber flooring part.

### UNDISCLOSED

#### 0.3000 - 0.5000%

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<td>LT-UNK</td>
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<td>None</td>
<td>No</td>
<td>Processing Aid</td>
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</tbody>
</table>

#### Hazards:
- None Found

No warnings found on HPD Priority lists
**TITANIUM DIOXIDE**

**ID:** 13463-67-7

**%:** 0.2000 - 4.0000

**GS:** LT-1  

**ROLE:** Pigment

**HAZARDS:**

**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
- **TEDX - Potential Endocrine Disruptors:** Potential Endocrine Disruptor
- **MAK:** Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

**SUBSTANCE NOTES:** Hazards as shown above may not represent a significant health risk, as exposure pathways and other factors in risk assessment are not defined. Hazards are applicable to the initial substance, whereas the end product is a solid vulcanized rubber flooring part.

**UNDISCLOSED**

**%:** 0.2000 - 0.2500

**GS:** LT-UNK

**ROLE:** Processing Aid

**HAZARDS:**

- **None Found**
- **No warnings found on HPD Priority lists**

**SUBSTANCE NOTES:** None.

**UNDISCLOSED**

**%:** 0.2000 - 0.2300

**GS:** LT-P1

**ROLE:** Processing Aid

**HAZARDS:**

- **MULTIPLE**
  - German FEA - Substances Hazardous to Waters
  - Class 2 - Hazard to Waters

**SUBSTANCE NOTES:** Hazards as shown above may not represent a significant health risk, as exposure pathways and other factors in risk assessment are not defined. Hazards are applicable to the initial substance, whereas the end product is a solid vulcanized rubber flooring part.

**UNDISCLOSED**

**%:** 0.1500 - 0.2000

**GS:** LT-P1

**ROLE:** Processing Aid

**HAZARDS:**

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

**SUBSTANCE NOTES:** None.
SUBSTANCE NOTES: Hazards as shown above may not represent a significant health risk, as exposure pathways and other factors in risk assessment are not defined. Hazards are applicable to the initial substance, whereas the end product is a solid vulcanized rubber flooring part.

UNDISCLOSED

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<td>Hazards:</td>
<td>AGENCY(IES) WITH WARNINGS:</td>
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SUBSTANCE NOTES: None.

UNDISCLOSED

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<td>Hazards:</td>
<td>AGENCY(IES) WITH WARNINGS:</td>
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SUBSTANCE NOTES: None.

UNDISCLOSED

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<th>%: 0.0800 - 1.6000</th>
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<th>RC: None</th>
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<td>Hazards:</td>
<td>AGENCY(IES) WITH WARNINGS:</td>
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SUBSTANCE NOTES: None.

UNDISCLOSED

<table>
<thead>
<tr>
<th>%: 0.0000 - 2.0000</th>
<th>GS: LT-1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Pigment</th>
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<td>Hazards:</td>
<td>AGENCY(IES) WITH WARNINGS:</td>
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<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>US CDC - Occupational Carcinogens</td>
<td>Occupational Carcinogen</td>
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<tr>
<td>CANCER</td>
<td>CA EPA - Prop 65</td>
<td>Carcinogen - specific to chemical form or exposure route</td>
<td></td>
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</tr>
<tr>
<td>CANCER</td>
<td>IARC</td>
<td>Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SUBSTANCE NOTES: Hazards as shown above may not represent a significant health risk, as exposure pathways and other factors in risk assessment are not defined. Hazards are applicable to the initial substance, whereas the end product is a solid vulcanized rubber flooring part.
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>
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<td>APPLICABLE FACILITIES:</td>
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<tr>
<td>ISSUE DATE:</td>
<td>2017-09-01</td>
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<tr>
<td>EXPIRY DATE:</td>
<td>2018-06-30</td>
</tr>
<tr>
<td>CERTIFIER OR LAB:</td>
<td>SCS Global Services</td>
</tr>
</tbody>
</table>

CERTIFICATION AND COMPLIANCE NOTES: RFCI FloorScore Indoor Air Quality (IAQ) Certification is in compliance with CDPH/EHLB Standard Method v1.2-2017 (California Section 01350), effective April 1, 2017, for the school classroom and private office parameters when modeled as Flooring.

**MANAGEMENT**

<table>
<thead>
<tr>
<th>CERTIFYING PARTY:</th>
<th>Third Party</th>
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<tbody>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>Tuscumbia, Alabama, United States of America</td>
</tr>
<tr>
<td>CERTIFICATE URL:</td>
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<tr>
<td>ISSUE DATE:</td>
<td>2017-08-09</td>
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<td>EXPIRY DATE:</td>
<td>2020-08-08</td>
</tr>
<tr>
<td>CERTIFIER OR LAB:</td>
<td>TUV Rheinland of North America, Inc.</td>
</tr>
</tbody>
</table>

CERTIFICATION AND COMPLIANCE NOTES: ISO 14001:2015 is a standard set forth by the International Organization for Standardization (ISO) to specify the requirements for an environmental management system that is intended to enhance the environmental performance of an organization. ISO 14001:2015 enables an organization to systematically manage its environmental responsibilities to contribute to the environmental pillar of sustainability. The intended outcomes of adherence to this standard include enhancement of environmental performance, fulfillment of compliance obligations, and achievement of environmental objectives. Roppe Envire Rubber sheet is manufactured in a ISO 14001:2015 certified facility.

**MULTI-ATTRIBUTE**

<table>
<thead>
<tr>
<th>CERTIFYING PARTY:</th>
<th>Third Party</th>
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<tbody>
<tr>
<td>APPLICABLE FACILITIES:</td>
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<td>CERTIFIER OR LAB:</td>
<td>SCS Global Services</td>
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</table>

CERTIFICATION AND COMPLIANCE NOTES: NSF/ANSI 332 is a voluntary, multi-attribute standard that evaluates the environmental and social impacts of resilient flooring products. Qualification of certification under this standard requires conformance to criteria including product design, product manufacturing, long-term value, end of life management, corporate governance, and innovation. Roppe Envire Rubber Sheet has been certified to the Gold level of NSF/ANSI 332 (Third Tier certification, moving toward best practices).

Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or
EXCELSIOR AW-510

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

EXCELSIOR EW-710

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:
EW-710 is a non-flammable two-part urethane-modified epoxy adhesive used for the permanent, indoor installation of vinyl, rubber and quartz flooring products. EW-710 is low VOC and solvent free. EW-710 is RFCI FloorScore Indoor Air Quality (IAQ) certified by SCS Global Services, indicating compliance with CDPH/EHLB Standard Method v1.1-2012 (California Section 01350), effective January 1, 2012, for the school classroom, private office, and single-family residence parameters when modeled as flooring (Registration # SCS-FS-02963, valid from March 1, 2017 to February 28, 2018, Certificate URL: https://www.scscertified.com/products/cert_pdfs/RHC_2017_SCS-FS-02963_s.pdf). Technical Data Sheet URL: http://excelsiorproducts.net/wp-content/uploads/2017/01/Excelsior_EW-710_DataSheet.pdf

Section 5: General Notes

Components designated as "Undisclosed" are kept confidential to protect proprietary information. Hazards as shown in this Health Product Declaration may not represent a significant health risk, as exposure pathways and other factors in risk assessment are not defined. Hazards are applicable to the initial substance, whereas the end product is a solid vulcanized rubber flooring part.

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: Roppe Corporation
ADDRESS: 1602 North Union Street
Fostoria OH 44830-1158, United States
WEBSITE: https://roppe.com/

CONTACT NAME: Jacob Gentillon
TITLE: Chemist
PHONE: 419-619-3388
EMAIL: jkgentillon@roppe.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

Roppe Envire Rubber Sheet and Tile
hdprepository.hpd-collaborative.org
HPD v2.1 created via HPDC Builder Page 9 of 10
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.