EverGuard TPO 50-80 mil
by GAF

CLASSIFICATION: 07 54 00 Thermoplastic Membrane Roofing

PRODUCT DESCRIPTION: When you're looking for great performance in a value-priced TPO roofing system, look no further than classic EverGuard® TPO. It's perfect for new construction or re-roofing where superior performance is required at a cost-effective price. It features the same great performance that all EverGuard® products offer—exceptional seam strength and puncture resistance, superior long-term weathering, and easy installation—for maximum reliability.

Section 1: Summary

Basic Method / Product Threshold

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
--- | --- | --- | --- | ---
EVERGUARD TPO 50-80 mil | ETHYLENE-PROPYLENE COPOLYMER (ETHYLENE-PROPYLENE COPOLYMER) | LT-UNK | MAGNESIUM HYDROXIDE (MAGNESIUM HYDROXIDE) | BM-3
| TITANIUM DIOXIDE (TITANIUM DIOXIDE) | CAN | END
| POLY((6-((1,1,3,3-TETRAMETHYLBUTYL)AMINO)-1,3,5-TRIAZINE-2,4-DIYL) ((2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)IMINO)-1,6-HEXANEDIYL((2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)IMINO)) (POL) (POL) | NOGS | CALCIUM STEARATE (CALCIUM STEARATE) | LT-UNK
| TRIS(2,4-DI-TERT-BUTYLPHENYL) PHOSPHITE | LT-UNK | CALCIUM | LT-P1
| CHLORIDE | NOGS | IRON | LT-P1
| ALUMINUM OXIDE | LT-P1 | RES SILICA, AMORPHOUS | LT-P1
| SOIL | LT-P1 | END
| VAPOR | LT-P1 | CAN

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: N/A

CONSISTENCY WITH OTHER PROGRAMS
Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

PREPARE: Self-Prepared
VERIFIER:
VERIFICATION #:
SCREENING DATE: 2017-12-06
PUBLISHED DATE: 2018-03-06
EXPIRY DATE: 2020-12-06
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](http://www.hpd-collaborative.org/hpd-2-1-standard)

**EVERGUARD TPO 50-80 MIL**

**PRODUCT THRESHOLD:** 1000 ppm  
**RESIDUALS AND IMPURITIES CONSIDERED:** Yes

**RESIDUALS AND IMPURITIES NOTES:** Impurities at or above the threshold have been reported on the HPD.

**OTHER PRODUCT NOTES:**

**ETHYLENE-PROPYLENE COPOLYMER (ETHYLENE-PROPYLENE COPOLYMER)**

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>76.4000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Base Polypropylene Polymer</td>
</tr>
</tbody>
</table>

**HAZARDS:**

None Found

**AGENCY(IES) WITH WARNINGS:**

No warnings found on HPD Priority lists

**SUBSTANCE NOTES:**

**MAGNESIUM HYDROXIDE (MAGNESIUM HYDROXIDE)**

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
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<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>22.0800</td>
<td>BM-3</td>
<td>None</td>
<td>No</td>
<td>Flame Retardant</td>
</tr>
</tbody>
</table>

**HAZARDS:**

None Found

**AGENCY(IES) WITH WARNINGS:**

No warnings found on HPD Priority lists

**SUBSTANCE NOTES:**

**TITANIUM DIOXIDE (TITANIUM DIOXIDE)**

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2600</td>
<td>LT-1</td>
<td>None</td>
<td>No</td>
<td>Pigment</td>
</tr>
</tbody>
</table>

**HAZARDS:**

- **CANCER**
  - US CDC - Occupational Carcinogens
  - CA EPA - Prop 65
  - IARC
  - TEDX - Potential Endocrine Disruptors

- **ENDOCRINE**
  - MAK

**GROUPS:**

- Occupational Carcinogen
- Carcinogen - specific to chemical form or exposure route
- Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
- Potential Endocrine Disruptor
- Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
<table>
<thead>
<tr>
<th>Substance</th>
<th>ID</th>
<th>% Range</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
<th>HAZARDS</th>
<th>AGENCY(IES) WITH WARNINGS</th>
<th>SUBSTANCE NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLY(6-((1,1,3,3-TETRAMETHYLBUTYL)AMINO)-1,3,5-TRIAZINE-2,4- DIYL)((2,2,6,6- TETRAMETHYL-4-PIPERIDINYL)IMINO)-1,6- HEXANEDIYL((2,2,6,6-TETRAMETHYL-4- PIPERIDINYL)IMINO)) (POL) (POLY)</td>
<td>71878-19-8</td>
<td>0.1000 - 0.1500</td>
<td>NoGS</td>
<td>None</td>
<td>No</td>
<td>Light Stabilizer</td>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
<td></td>
</tr>
<tr>
<td>CALCIUM STEARATE (CALCIUM STEARATE)</td>
<td>1592-23-0</td>
<td>0.1000 - 0.1500</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Lubricant</td>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
<td></td>
</tr>
<tr>
<td>TRIS(2,4-DI-TERT-BUTYLPHENYL) PHOSPHITE</td>
<td>31570-04-4</td>
<td>0.0000 - 0.1000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Secondary Antioxidant</td>
<td>PBT</td>
<td>EU - ESIS PBT Under PBT evaluation</td>
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</tr>
<tr>
<td>CALCIUM</td>
<td>7440-70-2</td>
<td>Impurity/Residual</td>
<td>LT-P1</td>
<td>None</td>
<td>No</td>
<td>Impurity/Residual</td>
<td>PHYSICAL HAZARD (REACTIVE)</td>
<td>EU - GHS (H-Statements) H261 - In contact with water releases flammable gases</td>
<td></td>
</tr>
<tr>
<td>CHLORIDE</td>
<td>16887-00-6</td>
<td>Impurity/Residual</td>
<td>NoGS</td>
<td>None</td>
<td>No</td>
<td>Impurity/Residual</td>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
<td></td>
</tr>
</tbody>
</table>
## Iron

<table>
<thead>
<tr>
<th>Property</th>
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<tbody>
<tr>
<td>ID</td>
<td>7439-89-6</td>
</tr>
<tr>
<td>Impurity/Residual</td>
<td>LT-P1</td>
</tr>
<tr>
<td>RC</td>
<td>None</td>
</tr>
<tr>
<td>Nano</td>
<td>No</td>
</tr>
<tr>
<td>Role</td>
<td>Impurity/Residual</td>
</tr>
<tr>
<td>HAZARDS:</td>
<td>AGENCY(IES) WITH WARNINGS: ENDOCRINE</td>
</tr>
<tr>
<td></td>
<td>TEDX - Potential Endocrine Disruptors Potential Endocrine Disruptor</td>
</tr>
</tbody>
</table>

## Aluminum Oxide

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>ID</td>
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</tr>
<tr>
<td>Impurity/Residual</td>
<td>LT-P1</td>
</tr>
<tr>
<td>RC</td>
<td>None</td>
</tr>
<tr>
<td>Nano</td>
<td>No</td>
</tr>
<tr>
<td>Role</td>
<td>Impurity/Residual</td>
</tr>
<tr>
<td>HAZARDS:</td>
<td>AGENCY(IES) WITH WARNINGS: RESPIRATORY</td>
</tr>
<tr>
<td></td>
<td>AOEC - Asthmagens Asthmagen (ARs) - sensitizer-induced - inhalable forms only</td>
</tr>
</tbody>
</table>

## Silica, Amorphous

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>7631-86-9</td>
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<tr>
<td>Impurity/Residual</td>
<td>LT-P1</td>
</tr>
<tr>
<td>RC</td>
<td>None</td>
</tr>
<tr>
<td>Nano</td>
<td>No</td>
</tr>
<tr>
<td>Role</td>
<td>Impurity/Residual</td>
</tr>
<tr>
<td>HAZARDS:</td>
<td>AGENCY(IES) WITH WARNINGS: CANCER</td>
</tr>
<tr>
<td></td>
<td>Japan - GHS Carcinogenicity - Category 1A</td>
</tr>
</tbody>
</table>

### 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>Self-declared</th>
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<tbody>
<tr>
<td>Applicable Facilities</td>
<td>N/A</td>
</tr>
<tr>
<td>Certificate URL</td>
<td></td>
</tr>
</tbody>
</table>

### 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.

**DRILL-TEC FASTENERS**  

**CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:**
When mechanically fastening.

**EVERGUARD ADHESIVES**  

**CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:**
When fully adhering.

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**Section 5: General Notes**

EverGuard TPO is Pharos and GreenSpec Listed

**Section 6: References**

**MANUFACTURER INFORMATION**

**MANUFACTURER:** GAF  
**ADDRESS:** 1361 Alps Rd  
Wayne NJ 07470, USA  
**WEBSITE:** [www.gaf.com](http://www.gaf.com)

**CONTACT NAME:** Martin Grohman  
**TITLE:** Director of Sustainability  
**PHONE:** 973-872-4300  
**EMAIL:** MGrohman@gaf.com

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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  
**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)  
**EverGuard TPO 50-80 mil**  
[hpdrepository.hpd-collaborative.org](http://hpdrepository.hpd-collaborative.org)
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.