

CLASSIFICATION: 07 54 00 Thermoplastic Membrane Roofing

created via: HPDC Online Builder

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 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

- Considered
- Partially Considered
- Not Considered

Explanation(s) provided for Residuals/Impurities?

- Yes No

Are All Substances Above the Threshold Indicated:

Characterized
Percent Weight and Role Provided? Yes No

Screened
Using Priority Hazard Lists with Results Disclosed? Yes No

Identified
Name and Identifier Provided? Yes No

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) **LT-1** | 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) (POLY) **NoGS** CALCIUM STEARATE (CALCIUM STEARATE) **LT-UNK** TRIS(2,4-DI-TERT-BUTYLPHENYL) PHOSPHITE **LT-UNK** | PBT **CALCIUM** **LT-P1** | PHY **CHLORIDE** **NoGS** **IRON** **LT-P1** | END
ALUMINUM OXIDE **LT-P1** | RES **SILICA, AMORPHOUS** **LT-P1** | CAN]

Number of Greenscreen BM-4/BM3 contents.....
1
Contents highest concern GreenScreen
Benchmark or List translator Score..... LT-1
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: N/A

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: 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

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)

ID: 9010-79-1

%: **76.4000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Base Polypropylene Polymer**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

MAGNESIUM HYDROXIDE (MAGNESIUM HYDROXIDE)

ID: 1309-42-8

%: **22.0800** GS: **BM-3** RC: **None** NANO: **No** ROLE: **Flame Retardant**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

TITANIUM DIOXIDE (TITANIUM DIOXIDE)

ID: 13463-67-7

%: **1.2600** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Pigment**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

SUBSTANCE NOTES:

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)

ID: 71878-19-8

%: **0.1000 - 0.1500** GS: **NoGS** RC: **None** NANO: **No** ROLE: **Light Stabilizer**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

CALCIUM STEARATE (CALCIUM STEARATE)

ID: 1592-23-0

%: **0.1000 - 0.1500** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Lubricant**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

TRIS(2,4-DI-TERT-BUTYLPHENYL) PHOSPHITE

ID: 31570-04-4

%: **0.0000 - 0.1000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Secondary Antioxidant**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

PBT

EU - ESIS PBT

Under PBT evaluation

SUBSTANCE NOTES:

CALCIUM

ID: 7440-70-2

%: **Impurity/Residual** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H261 - In contact with water releases flammable gases

SUBSTANCE NOTES:

CHLORIDE

ID: 16887-00-6

%: **Impurity/Residual** GS: **NoGS** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

IRONID: **7439-89-6**

%: Impurity/Residual	GS: LT-P1	RC: None	NANO: No	ROLE: Impurity/Residual
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
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SUBSTANCE NOTES:

ALUMINUM OXIDEID: **1344-28-1**

%: Impurity/Residual	GS: LT-P1	RC: None	NANO: No	ROLE: Impurity/Residual
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
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SUBSTANCE NOTES:

SILICA, AMORPHOUSID: **7631-86-9**

%: Impurity/Residual	GS: LT-P1	RC: None	NANO: No	ROLE: Impurity/Residual
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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CANCER	Japan - GHS	Carcinogenicity - Category 1A
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SUBSTANCE NOTES:

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 **N/A**

CERTIFYING PARTY: Self-declared	ISSUE DATE: 2017-12-13	EXPIRY DATE:	CERTIFIER OR LAB: N/A
APPLICABLE FACILITIES: N/A			
CERTIFICATE URL:			
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.

No accessories are required for this product.

DRILL-TEC FASTENERS HPD URL: http://www.sustainableminds.com/showroom/gaf/pdf/GAF_Drill_Tec_Fasteners_and_Plates_HPD.pdf

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

EVERGUARD ADHESIVES HPD URL: http://www.sustainableminds.com/showroom/gaf/pdf/GAF_2_Part_Roofing_Adhesive_HPD.pdf

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

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**

CONTACT NAME: **Martin Grohman**
TITLE: **Director of Sustainability**
PHONE: **973-872-4300**
EMAIL: **MGrohman@gaf.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	GLO Global warming	PHY Physical Hazard (reactive)
CAN Cancer	MAM Mammalian/systemic/organ toxicity	REP Reproductive toxicity
DEV Developmental toxicity	MUL Multiple hazards	RES Respiratory sensitization
END Endocrine activity	NEU Neurotoxicity	SKI Skin sensitization/irritation/corrosivity
EYE Eye irritation/corrosivity	OZO Ozone depletion	LAN Land Toxicity
GEN Gene mutation	PBT Persistent Bioaccumulative Toxic	NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-P1 List Translator Possible Benchmark 1
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-1 List Translator Likely Benchmark 1
BM-2 Benchmark 2 (use but search for safer substitutes)	LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
BM-1 Benchmark 1 (avoid - chemical of high concern)	NoGS Unknown (no data on List Translator Lists)
BM-U Benchmark Unspecified (insufficient data to benchmark)	

Recycled Types

PreC Preconsumer (Post-Industrial)
EverGuard TPO 50-80 mil
hpdrepository.hpd-collaborative.org

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.