Everguard Extreme TPO by GAF

Health Product Declaration v2.1

created via: HPDC Online Builder

CLASSIFICATION: 07 54 00 Thermoplastic Membrane Roofing

PRODUCT DESCRIPTION: Advanced Heat & UV Protection TPO. GAF scientists have created a new grade of TPO singleply membrane that is built to handle the extreme demands that new roof top applications can place on roofing membranes. EverGuard Extreme® TPO uses proprietary stabilizers and UV absorbers to achieve weathering performance far beyond current standards.



Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format Nested Materials Method Basic Method

Threshold Disclosed Per

- Material
- Product

Th	re	sh	olo	l le	vel
_					

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

Residuals/Impurities

- Considered
- C Partially Considered
- Not Considered
- Explanation(s) provided for Residuals/Impurities? Yes O No

Are All Substances Above the Threshold Indicated:

 Yes ○ No Characterized

Percent Weight and Role Provided?

 Yes ○ No. Screened

Using Priority Hazard Lists with Results Disclosed?

Identified Yes ○ No

Name and Identifier Provided?

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 EXTREME TPO [ETHYLENE-PROPYLENE COPOLYMER LT-UNK MAGNESIUM HYDROXIDE BM-3 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)) NoGS CALCIUM STEARATE LT-UNK TRIS(2,4-DI-TERT-BUTYLPHENYL) PHOSPHITE LT-UNK | PBT CALCIUM LT-P1 | PHY CHLORIDE NoGS ALUMINUM OXIDE LT-P1 | RES IRON LT-P1 | END SILICA, AMORPHOUS

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

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: NA

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

C Yes No

LT-P1 | CAN]

PREPARER: Self-Prepared

VERIFIER: **VERIFICATION #:** **SCREENING DATE: 2018-03-27** PUBLISHED DATE: 2018-03-27 EXPIRY DATE: 2021-03-27



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 EXTREME TPO

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Based on MSDS data, all residuals at or above the threshold have been reported on the HPD.

OTHER PRODUCT NOTES:

ETHYLENE-PROPYLENE COPOLYMER

ID: 9010-79-1

%: 75.2000	GS: LT-UNK	RC: None	nano: No	ROLE: Base Polymer	
HAZARDS:	AGENCY(IES) WITH WARNINGS:				
None Found	No warnings found on HF	No warnings found on HPD Priority lists			
SUBSTANCE NOTES:					

SUBSTANCE NOTES:

MAGNESIUM HYDROXIDE ID: 1309-4	· 42- 8
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%: 22.0800 - 23.0800	GS: BM-3	RC: None	NANO: No	ROLE: Flame Retardant	
HAZARDS:	AGENCY(IES) WITH WARNINGS:				
None Found	No warnings found on HPD Priority lists				

TITANIUM DIOXIDE ID: 13463-67-7

%: 1.2600	GS: LT-1	RC: None	nano: No	ROLE: Pigment		
HAZARDS:	AGENCY(IES) WITH WA	ARNINGS:				
CANCER	US CDC - Occu	US CDC - Occupational Carcinogens		Occupational Carcinogen		
CANCER	CA EPA - Prop 6	CA EPA - Prop 65		Carcinogen - specific to chemical form or exposure route		
CANCER	IARC	IARC		Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources		
ENDOCRINE	TEDX - Potentia	I Endocrine Disruptors	Potential Endocr	ine Disruptor		

CANCER	MAK			Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value		
SUBSTANCE NOTES:						
			ng			
POLY((6-((1,1,3,3-TETRAMETHY TETRAMETHYL-4-PIPERIDINYL) PIPERIDINYL)IMINO))					ID: 71878-19-8	
%: 0.1000 - 0.2500	gs: NoGS			RC: NANO: None No	ROLE: Light Stabilizer	
HAZARDS:	AGENCY(IES) WITH WARNI	NGS:				
None Found	No warnings found	on HPD Priority lists				
SUBSTANCE NOTES:						
CALCIUM STEARATE					ID: 1592-23-0	
%: 0.1000 - 0.1500	GS: LT-UNK	RC: None	nano: N o	o ROLE: Lubric	ant	
HAZARDS:	AGENCY(IES) WITH WARNII	NGS:				
None Found	No warnings found on HPD Priority lists					
SUBSTANCE NOTES:						
TRIS(2,4-DI-TERT-BUTYLPHEN)	(L) PHOSPHITE				ID: 31570-04-4	
%: 0.0000 - 0.2000	GS: LT-UNK	RC: None	nano: No	ROLE: Secondary Anti	oxidant	
HAZARDS:	AGENCY(IES) WITH WARNI	NGS:				
РВТ	EU - ESIS PBT		Under PBT	evaluation		
OUDOTANOE NOTES						
SUBSTANCE NOTES:						
CALCIUM					ID: 7440-70-2	
%: Impurity/Residual	GS: LT-P1	RC: None	nano: No	ROLE: Impurity/Residua		
HAZARDS:	AGENCY(IES) WITH WARNI	NGS:				
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Staten	nents)	H261 - In co	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:

ALUMINUM OXIDE ID: 1344-28-1

%: Impurity/Residual

GS: LT-P1

RC: None

NANO: No

ROLE: Impurity/Residual

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (ARs) - sensitizer-induced - inhalable forms

only

SUBSTANCE NOTES:

IRON ID: 7439-89-6

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

HAZARDS: AGENCY(IES) WITH WARNINGS:

ENDOCRINE TEDX - Potential Endocrine Disruptors Potential Endocrine Disruptor

SUBSTANCE NOTES:

SILICA, AMORPHOUS ID: 7631-86-9

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

HAZARDS: AGENCY(IES) WITH WARNINGS:

CANCER Japan - GHS Carcinogenicity - Category 1A

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

CERTIFYING PARTY: Self-declared

ISSUE DATE: 2018-

EXPIRY DATE:

CERTIFIER OR LAB: NA

APPLICABLE FACILITIES: NA

03-27

NA

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: There are no VOC emissions certification for this product.



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.

DRILL-TEC

HPD URL:

FASTENERS

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 membrane.

EVERGUARD

HPD URL: https://hpdrepository.hpd-

ADHESIVES

collaborative.org/repository/HPDs/publish 112 Everguard TPO Seam Cleaner 1520290358.pdf

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

When fully adhering.



Section 5: General Notes

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

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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 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 (insuficient data to benchmark)

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

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)

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.