

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

ENERGYGUARD NH POLYISO INSULATION [POLYISOCYANURATE FOAM LT-
UNK CELLULOSE, MICROCRYSTALLINE UNK PENTANE LT-P1 | AQU | MAM |
MUL | PHY GLASS / MINERAL FIBER (POST-CONSUMER RECYCLED) LT-UNK
1,2-PROPANEDIOL, POLYMER WITH 2-ETHYLOXIRANE AND OXIRANE,
POTASSIUM SALT UNK BIS(2-DIMETHYLAMINOETHYL)(METHYL)AMINE LT-P1 |
MAM | SKI | MUL POTASSIUM ACETATE LT-UNK]

Number of Greenscreen BM-4/BM3 contents.....
0
Contents highest concern GreenScreen
Benchmark or List translator Score..... LT-P1
Nanomaterial..... No

INVENTORY AND SCREENING NOTES:
Halogen Free Polyiso Insulation for Fire Rated Assemblies

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: NA
Recycled content: Recycled Content Certification

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: 2017-02-02

PUBLISHED DATE: 2018-03-07

EXPIRY DATE: 2020-02-02

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

ENERGYGUARD NH POLYISO INSULATION

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: No known residuals and impurities.

OTHER PRODUCT NOTES: Includes halogen free flame retardant.

POLYISOCYANURATE FOAM

ID: 9063-78-9

%: **46.0000 - 54.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Foam**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Foam

CELLULOSE, MICROCRYSTALLINE

ID: 9004-34-6

%: **41.0000 - 45.0000** GS: **UNK** RC: **Both** NANO: **No** ROLE: **Facer**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Facer

PENTANE

ID: 109-66-0

%: **3.0000 - 7.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Blowing agent**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

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

MAMMALIAN

EU - GHS (H-Statements)

H304 - May be fatal if swallowed and enters airways

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H225 - Highly flammable liquid and vapour

SUBSTANCE NOTES: Blowing agent

%: 2.0000 - 4.0000	GS: LT-UNK	RC: Both	NANO: No	ROLE: Reinforcement
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			
SUBSTANCE NOTES: Reinforcement				

1,2-PROPANEDIOL, POLYMER WITH 2-ETHYLOXIRANE AND OXIRANE, POTASSIUM SALT

ID: 134737-27-2

%		0.2000 - 0.8000		GS:	UNK		RC:	None		NANO:	No		ROLE:	Surfactant	
HAZARDS:		AGENCY(IES) WITH WARNINGS:													
None Found		No warnings found on HPD Priority lists													
SUBSTANCE NOTES: Surfactant															

BIS(2-DIMETHYLAMINOETHYL)(METHYL)AMINE

ID: 3030-47-5

%: 0.1000 - 0.8000	GS: LT-P1	RC: None	NANO: No	ROLE: Catalyst
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
MAMMALIAN	EU - R-phrases	R22 - Harmful if Swallowed		
MAMMALIAN	EU - R-phrases	R24 - Toxic in Contact with Skin		
SKIN IRRITATION	EU - R-phrases	R34 - Causes burns		
MAMMALIAN	EU - GHS (H-Statements)	H311 - Toxic in contact with skin		
SKIN IRRITATION	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage		
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters		
SUBSTANCE NOTES: Catalyst				

POTASSIUM ACETATE

ID: 127-08-2

: 0.1000 - 0.4000		GS: LT-UNK	RC: None	NANO: No	ROLE: Catalyst
HAZARDS:		AGENCY(IES) WITH WARNINGS:			
None Found		No warnings found on HPD Priority lists			
SUBSTANCE NOTES: Catalyst					

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

NA

CERTIFYING PARTY: Self-declared
APPLICABLE FACILITIES: NA
CERTIFICATE URL:

ISSUE DATE: 2018-03-05

EXPIRY DATE:

CERTIFIER OR LAB: NA

CERTIFICATION AND COMPLIANCE NOTES:

RECYCLED CONTENT

Recycled Content Certification

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: Statesboro, GA; Cedar City, UT; Gainesville, TX
CERTIFICATE URL:

ISSUE DATE: 2016-12-01

EXPIRY DATE: 2017-12-01

CERTIFIER OR LAB: GreenCircle Certified

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.

DRILL TEC FASTENER HPD URL: http://www.sustainableminds.com/showroom/gaf/pdf/GAF_Drill_Tec_Fasteners_and_Plates_HPDC.pdf

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Various fastening methods are possible depending on specification.

📄 Section 5: General Notes

These products are intended to be roof insulation panels consisting of a rigid closed cell polyisocyanurate-modified polyurethane foam laminated to a double coated inorganic fiberglass mat face on one side and a common coated inorganic fiberglass mat facer on the other side for use in UL Class A combustible roof deck assemblies at a minimum thickness of 1.0" without the use of gypsum cover boards or a fire rated slip sheet, and applied in roofing constructions requiring UL Class A ratings, including single-ply (mechanically attached or fully adhered) systems.

👁 Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: **GAF**
ADDRESS: **1 Campus Dr**
Parsippany NJ 07054, United States
WEBSITE: **www.gaf.com**

CONTACT NAME: **Martin Grohman**
TITLE: **Director of Sustainability**
PHONE: **2074238260**
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)
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.