

HPD UNIQUE IDENTIFIER: 983537267712  
 CLASSIFICATION: 07 54 00 Thermoplastic Membrane Roofing  
 PRODUCT TYPE: Thermoplastic-Polyolefin Roofing (Membrane Roofing)  
 PRODUCT DESCRIPTION: Thermoplastic polyolefin roofing membrane with Polyester reinforcement.

**Section 1: Summary**

**Nested Method / Product Threshold**

**CONTENT INVENTORY**

<p><b>Inventory Reporting Format</b></p> <p><input checked="" type="radio"/> Nested Materials Method  <input type="radio"/> Basic Method</p> <p><b>Threshold Disclosed Per</b></p> <p><input type="radio"/> Material  <input checked="" type="radio"/> Product</p>	<p><b>Threshold Level</b></p> <p><input type="radio"/> 100 ppm  <input checked="" type="radio"/> 1,000 ppm  <input type="radio"/> Per GHS SDS  <input type="radio"/> Other</p>	<p><b>Residuals/Impurities Evaluation</b></p> <p><input type="radio"/> Completed  <input checked="" type="radio"/> Not Completed</p> <p><b>Explanation(s) provided for Residuals/Impurities?</b></p> <p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>	<p><i>For all contents above the threshold, the manufacturer has:</i></p> <p><b>Characterized</b> <input type="radio"/> Yes <input checked="" type="radio"/> No  <i>Provided weight and role.</i></p> <p><b>Screened</b> <input type="radio"/> Yes <input checked="" type="radio"/> No  <i>Provided screening results using HPDC-approved methods.</i></p> <p><b>Identified</b> <input type="radio"/> Yes <input checked="" type="radio"/> No  <i>Provided name and CAS RN or other identifier.</i></p>
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**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.

**NESTED MATERIAL | MATERIAL OR SUBSTANCE | RESIDUAL OR IMPURITY**

**GREENSCREEN SCORE | HAZARD TYPE**

**PRIMARY RESIN [ ETHENE, POLYMER WITH 1-PROPENE ]** **LT-UNK**  
**PROPRIETARY ADDITIVE** **NoGS** ] **FIRE RETARDANT [ MAGNESIUM HYDROXIDE** **BM-3** ] **EYE** **CALCIUM** **LT-P1** ] **SKI | EYE | PHY ]**  
**REINFORCEMENT SCRIM [ POLYESTER REINFORCEMENT** **NoGS** ]  
**TOP PLY TPO PIGMENT [ TITANIUM DIOXIDE** **BM-1** ] **CAN | END | MAM**  
**PROPRIETARY BINDER** **NoGS** ] **WEATHERING PACKAGE [ CALCIUM STEARATE** **LT-UNK** **PROPRIETARY** **NoGS** **PROPRIETARY** **LT-UNK** **PROPRIETARY** **LT-UNK** **PROPRIETARY** **BM-1** ] **MUL | EYE | MAM | AQU ]**  
**TPO BOTTOM PLY PIGMENT [ PROPRIETARY BINDER** **Not Screened** **CARBON BLACK** **BM-1** ] **CAN | EYE | MAM | PHY ]**

Number of Greenscreen BM-4/BM3 contents ... 1  
 Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ... BM-1, LT-P1  
 Nanomaterial ... No

**INVENTORY AND SCREENING NOTES:**

This HPD has not accounted for substances within the various materials below the reportable product - 1,000 ppm levels, which is permitted by the HPD Standard.

**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: CDPH Standard Method - Not tested  
 Roof Wind Uplift: CSA A123.21  
 Wind Uplift, Exterior Fire Resistance, Hail Resistance: FM 4470

**CONSISTENCY WITH OTHER PROGRAMS**

No pre-checks completed or disclosed.

<p>Third Party Verified?</p> <p><input type="radio"/> Yes  <input checked="" type="radio"/> No</p>	<p>PREPARER: Self-Prepared                  VERIFIER:                  VERIFICATION #:</p>	<p>SCREENING DATE: 2024-09-25                  PUBLISHED DATE: 2024-09-26                  EXPIRY DATE: 2027-09-25</p>
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## 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 2.3, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-3-standard](http://www.hpd-collaborative.org/hpd-2-3-standard)

### PRIMARY RESIN

%: 60.0000 - 80.0000

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: No MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were not considered.

OTHER MATERIAL NOTES: Resin serves as primary membrane material for top and bottom TPO ply.

### ETHENE, POLYMER WITH 1-PROPENE

ID: 9010-79-1

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2024-09-25 13:11:03

%: 99.5000 - 100.0000

GreenScreen: LT-UNK

RC: None

NANO: No

SUBSTANCE ROLE: Polymer species

HAZARD TYPE

LIST NAME AND SOURCE

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS

LIST NAME AND SOURCE

NOTIFICATION

None found

No listings found on Additional Hazard Lists

SUBSTANCE NOTES: No recycled content information available.

### PROPRIETARY ADDITIVE

ID: Undisclosed

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2024-09-25 13:11:04

%: 0.0100 - 0.1000

GreenScreen: NoGS

RC: None

NANO: No

SUBSTANCE ROLE: Stabilizer

HAZARD TYPE

LIST NAME AND SOURCE

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS

LIST NAME AND SOURCE

NOTIFICATION

None found

No listings found on Additional Hazard Lists

SUBSTANCE NOTES: No recycled content information available.

### FIRE RETARDANT

%: 15.0000 - 25.0000

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were not assessed.

OTHER MATERIAL NOTES: Flame retardant combined with Primary Resin to give membrane flame-retardant properties.

**MAGNESIUM HYDROXIDE**

ID: **1309-42-8**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**      HAZARD SCREENING DATE: **2024-09-25 13:11:04**

#: **99.0000 - 100.0000**      GreenScreen: **BM-3**      RC: **None**      NANO: **No**      SUBSTANCE ROLE: **Flame retardant**

HAZARD TYPE      LIST NAME AND SOURCE      WARNINGS

EYE      GHS - New Zealand      Eye irritation category 2

ADDITIONAL LISTINGS      LIST NAME AND SOURCE      NOTIFICATION

None found      No listings found on Additional Hazard Lists

SUBSTANCE NOTES: No recycled content information available

**CALCIUM**

ID: **7440-70-2**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**      HAZARD SCREENING DATE: **2024-09-25 13:11:04**

#: **0.0000 - 1.0000**      GreenScreen: **LT-P1**      RC: **None**      NANO: **No**      SUBSTANCE ROLE: **Flame retardant**

HAZARD TYPE      LIST NAME AND SOURCE      WARNINGS

SKI      GHS - New Zealand      Skin irritation category 2

EYE      GHS - New Zealand      Eye irritation category 2

PHY      GHS - Japan      H261 - In contact with water releases flammable gas [Substances and mixtures, which in contact with water, emit flammable gases - Category 2]

EYE      GHS - Japan      H318 - Causes serious eye damage [Serious eye damage / eye irritation - Category 1]

SKI      GHS - Japan      H314 - Causes severe skin burns and eye damage [Skin corrosion / irritation - Category 1]

PHY      GHS - Japan      H250 - Catches fire spontaneously if exposed to air [Pyrophoric solids - Category 1]

ADDITIONAL LISTINGS      LIST NAME AND SOURCE      NOTIFICATION

None found      No listings found on Additional Hazard Lists

SUBSTANCE NOTES: No recycled content information available

**REINFORCEMENT SCRIM**

%: **0.0000 - 20.0000**

PRODUCT THRESHOLD: 1000 ppm    RESIDUALS AND IMPURITIES EVALUATION COMPLETED: No    MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were not considered.

OTHER MATERIAL NOTES: Polyester Scrim Reinforcement sandwiched between top and bottom TPO Ply

**POLYESTER REINFORCEMENT**

ID: **Undisclosed**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**      HAZARD SCREENING DATE: **2024-09-25 13:11:04**

%: **100.0000 - 100.0000**      GreenScreen: **NoGS**      RC: **None**      NANO: **No**      SUBSTANCE ROLE: **Structure component**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: No recycled content information available.

**TOP PLY TPO PIGMENT**      %: **0.5000 - 5.0000**

PRODUCT THRESHOLD: 1000 ppm    RESIDUALS AND IMPURITIES EVALUATION COMPLETED: No    MATERIAL TYPE: Geologically Derived Material

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were not considered.

OTHER MATERIAL NOTES:

**TITANIUM DIOXIDE**

ID: **13463-67-7**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**      HAZARD SCREENING DATE: **2024-09-25 13:11:05**

%: **50.0000 - 100.0000**      GreenScreen: **BM-1**      RC: **None**      NANO: **No**      SUBSTANCE ROLE: **Pigment**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
CAN	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CAN	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
CAN	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
CAN	IARC	Group 2b - Possibly carcinogenic to humans
CAN	EU - GHS (H-Statements) Annex 6 Table 3-1	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]
CAN	GHS - Japan	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Children's Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Formulated Consumer Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Cosmetics & Personal Care Products
POSITIVE LIST	US Environmental Protection Agency (US EPA)	US EPA - DfE Safer Chemicals Ingredients list (SCIL)  Colorants - Green Circle (Verified Low Concern)

SUBSTANCE NOTES: No recycled content information available.

**PROPRIETARY BINDER**

ID: **Undisclosed**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-09-25 13:11:05**

#: **20.0000 - 40.0000** GreenScreen: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Binder**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS LIST NAME AND SOURCE NOTIFICATION

None found No listings found on Additional Hazard Lists

SUBSTANCE NOTES: No recycled content information available.

**WEATHERING PACKAGE** %: 0.5000 - 2.5000

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: No MATERIAL TYPE: Geologically Derived Material

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were not considered.

OTHER MATERIAL NOTES:

**CALCIUM STEARATE** ID: 1592-23-0

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: 2024-09-25 13:11:05

%: 25.0000 - 35.0000 GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Lubricant**

HAZARD TYPE LIST NAME AND SOURCE WARNINGS  
None found No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS LIST NAME AND SOURCE NOTIFICATION  
None found No listings found on Additional Hazard Lists

SUBSTANCE NOTES: No recycled content information available.

**PROPRIETARY** ID: **Undisclosed**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: 2024-09-25 13:11:06

%: 25.0000 - 35.0000 GreenScreen: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Heat or UV stabilizer**

HAZARD TYPE LIST NAME AND SOURCE WARNINGS  
None found No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS LIST NAME AND SOURCE NOTIFICATION  
None found No listings found on Additional Hazard Lists

SUBSTANCE NOTES: No recycled content information available.

**PROPRIETARY** ID: **Undisclosed**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: 2024-09-25 13:11:06

#: 10.0000 - 15.0000

GreenScreen: **LT-UNK**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Heat or UV stabilizer**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
POSITIVE LIST	US Environmental Protection Agency (US EPA)	US EPA - DfE Safer Chemicals Ingredients list (SCIL)  Preservatives-Antioxidants - Green Circle (Verified Low Concern)
SUBSTANCE NOTES: No recycled content information available.		

**PROPRIETARY**

ID: **Undisclosed**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-09-25 13:11:05**

#: 10.0000 - 15.0000

GreenScreen: **LT-UNK**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Heat or UV stabilizer**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists
SUBSTANCE NOTES: No recycled content information available.		

**PROPRIETARY**

ID: **Undisclosed**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-09-25 13:11:05**

#: 5.0000 - 10.0000

GreenScreen: **BM-1**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Heat or UV stabilizer**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists
SUBSTANCE NOTES: No recycled content information available.		

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
EYE	GHS - New Zealand	Eye irritation category 2
MAM	GHS - Japan	H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]
EYE	GHS - Japan	H318 - Causes serious eye damage [Serious eye damage / eye irritation - Category 1]
AQU	GHS - New Zealand	Hazardous to the aquatic environment - chronic category 2
AQU	GHS - Japan	H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]
AQU	GHS - Japan	H401 - Toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 2]
MAM	GHS - Australia	H330 - Fatal if inhaled [Acute toxicity (inhalation) - Category 1 or 2]
EYE	GHS - Australia	H318 - Causes serious eye damage [Serious eye damage/eye irritation - Category 1]
MAM	GHS - Japan	H330 - Fatal if inhaled [Acute toxicity (inhalation: dust, mist) - Category 2]
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: No recycled content information available.

**TPO BOTTOM PLY PIGMENT**      %: **0.1000 - 1.0000**

PRODUCT THRESHOLD: 1000 ppm      RESIDUALS AND IMPURITIES EVALUATION COMPLETED: No      MATERIAL TYPE: Geologically Derived Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities not considered.

OTHER MATERIAL NOTES:



HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **Not Screened**

%: **50.0000 - 60.0000** GreenScreen: **Not Screened** RC: **None** NANO: **No** SUBSTANCE ROLE: **Binder**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
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Hazard Screening not performed

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
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Additional Hazard Screening not performed

SUBSTANCE NOTES: No recycled content information available.

**CARBON BLACK**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2024-09-25 13:11:06**

%: **35.0000 - 50.0000** GreenScreen: **BM-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Pigment**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
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CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
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CAN	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
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CAN	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
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CAN	IARC	Group 2b - Possibly carcinogenic to humans
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EYE	GHS - New Zealand	Eye irritation category 2
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CAN	GHS - New Zealand	Carcinogenicity category 2
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CAN	GHS - Japan	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]
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MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
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PHY	GHS - Japan	H251 - Self-heating;; may catch fire [Self-heating substances and mixtures - Category 1]
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ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
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None found		No listings found on Additional Hazard Lists
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SUBSTANCE NOTES: No recycled content information available.



## 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	CDPH Standard Method - Not tested	
CERTIFYING PARTY: Self-declared	ISSUE DATE: 2024-09-26 00:00:00	CERTIFIER OR LAB: None
APPLICABLE FACILITIES: Hagerstown, Maryland, USA	EXPIRY DATE:	
CERTIFICATE URL:		
CERTIFICATION AND COMPLIANCE NOTES:		

  

ROOF WIND UPLIFT	CSA A123.21	
CERTIFYING PARTY: Third Party	ISSUE DATE: 2021-05-07 00:00:00	CERTIFIER OR LAB: Element
APPLICABLE FACILITIES: Hagerstown, Maryland, USA	EXPIRY DATE:	Materials Technology
CERTIFICATE URL: <a href="https://www.iko.com/comm/tested-roof-assemblies-csa-a123-21/">https://www.iko.com/comm/tested-roof-assemblies-csa-a123-21/</a>		
CERTIFICATION AND COMPLIANCE NOTES: This product has been tested in a large number of roofing assemblies. One example of certification is report 20-06-B0138-PARS022-A		

  

WIND UPLIFT, EXTERIOR FIRE RESISTANCE, HAIL RESISTANCE	FM 4470	
CERTIFYING PARTY: Third Party	ISSUE DATE: 2024-09-26 00:00:00	CERTIFIER OR LAB: Factory
APPLICABLE FACILITIES: Hagerstown, Maryland, USA	EXPIRY DATE:	Mutual (FM) Approvals
CERTIFICATE URL: <a href="https://roofnav.app.fmglobal.com/assemblyDetail/2301635?openAssemblyProps=true&amp;openRoofLayers=true">https://roofnav.app.fmglobal.com/assemblyDetail/2301635?openAssemblyProps=true&amp;openRoofLayers=true</a>		
CERTIFICATION AND COMPLIANCE NOTES: This product is present in a large number of roofing assemblies tested for resistance to wind uplift. FM Approvals Assembly Number 554116-0-0 is one of these assemblies. These listings are maintained through semiannual audits from FM in the IKO manufacturing plants.		

## 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.

## Section 5: General Notes

**MANUFACTURER INFORMATION**

MANUFACTURER: **IKO industries**  
 ADDRESS: **Hansen Road South**  
**Brampton, Ontario L6W 3H4**  
 COUNTRY: **Canada**  
 LATITUDE: **-79.7393000**  
 LONGITUDE: **43.6956000**

WEBSITE: **iko.com/comm**  
 CONTACT NAME: **Alexander Moroz**  
 TITLE: **Codes and Compliance Officer**  
 PHONE: **6473267620**  
 EMAIL: **alexander.moroz@iko.com**

*The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.*

**KEY**

**Hazard Types**

<b>AQU</b> Aquatic toxicity	<b>LAN</b> Land toxicity	<b>PHY</b> Physical hazard (flammable or reactive)
<b>CAN</b> Cancer	<b>MAM</b> Mammalian/systemic/organ toxicity	<b>REP</b> Reproductive
<b>DEV</b> Developmental toxicity	<b>MUL</b> Multiple	<b>RES</b> Respiratory sensitization
<b>END</b> Endocrine activity	<b>NEU</b> Neurotoxicity	<b>SKI</b> Skin sensitization/irritation/corrosivity
<b>EYE</b> Eye irritation/corrosivity	<b>NF</b> Not found on Priority Hazard Lists	<b>UNK</b> Unknown
<b>GEN</b> Gene mutation	<b>OZO</b> Ozone depletion	
<b>GLO</b> Global warming	<b>PBT</b> Persistent, bioaccumulative, and toxic	

**GreenScreen (GS)**

<b>BM-4</b> Benchmark 4 (prefer-safer chemical)	<b>LT-P1</b> List Translator Possible 1 (Possible Benchmark-1)
<b>BM-3</b> Benchmark 3 (use but still opportunity for improvement)	<b>LT-1</b> List Translator 1 (Likely Benchmark-1)
<b>BM-2</b> Benchmark 2 (use but search for safer substitutes)	<b>LT-UNK</b> List Translator Benchmark Unknown
<b>BM-1</b> Benchmark 1 (avoid - chemical of high concern)	<b>NoGS</b> No GreenScreen.
<b>BM-U</b> Benchmark Unspecified (due to insufficient data)	

GreenScreen Benchmark scores sometimes also carry subscripts, which provide more context for how the score was determined. These are DG (data gap), TP (transformation product), and CoHC (chemical of high concern). For more information, see 2.2.2.4 GreenScreen® for Safer Chemicals, [www.greenscreenchemicals.org](http://www.greenscreenchemicals.org), and Best Practices for Hazard Screening on the HPDC website ([hpd-collaborative.org](http://hpd-collaborative.org)).

**Recycled Types**

**PreC** Pre-consumer recycled content  
**PostC** Post-consumer recycled content  
**UNK** Inclusion of recycled content is unknown  
**None** Does not include recycled content

**Other Terms:**

**GHS SDS** Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

**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.*