

CLASSIFICATION: 07 14 16.00

PRODUCT DESCRIPTION: HENRY LIQUIDFOIL™ ATTIC BARRIER IS A LOW EMISSIVITY (LOW-E) ENERGY SAVING COATING, MOST COMMONLY APPLIED TO THE UNDERSIDE OF ROOF DECKS AND GABLE ENDS. IT COMES IN A LIQUID FORM AND DRIES TO A SHINY, METALLIC FINISH. IN SUMMER, HENRY LIQUIDFOIL™ ATTIC BARRIER WORKS TO KEEP THE HEAT OUT OF THE BUILDING. IN WINTER, IT WORKS TO KEEP THE HEAT IN THE BUILDING. WHEN PROPERLY APPLIED, HENRY LIQUIDFOIL™ ATTIC BARRIER WILL BLOCK UP TO 84% OF THE RADIANT HEAT FROM PENETRATING THE SURFACE, REDUCING BOTH SUMMER COOLING AND WINTER HEATING COSTS. HENRY LIQUIDFOIL™ ATTIC BARRIER IS CLASSIFIED AS AN INTERIOR RADIATION CONTROL COATING SYSTEM (ASTM C1321) WITH AN EMITTANCE RATING OF 0.16 AS TESTED IN ACCORDANCE WITH ASTM C1371 OVER A WOOD SUBSTRATE.

**Section 1: Summary**

**CONTENT INVENTORY**

<p>Threshold per material</p> <ul style="list-style-type: none"> <li><input checked="" type="radio"/> 100 ppm</li> <li><input type="radio"/> 1,000 ppm</li> <li><input type="radio"/> Per GHS SDS</li> <li><input type="radio"/> Per OSHA MSDS</li> <li><input type="radio"/> Other</li> </ul>	<p>Residuals and impurities considered in 1 of 1 materials</p> <ul style="list-style-type: none"> <li><input checked="" type="radio"/> see Section 2: Material Notes</li> <li><input type="radio"/> see Section 5: General Notes</li> </ul>	<p>Based on the selected Content Inventory Threshold:</p> <p>Characterized..... <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>Are the Percent Weight and Role provided for all substances?</p> <p>Screened..... <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>Are all substances screened using Priority Hazard Lists with results disclosed?</p> <p>Identified..... <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>Are all substances disclosed by Name (Specific or Generic) and Identifier?</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.

Number of Greenscreen BM-4/BM3 contents..... 1

Contents highest concern GreenScreen Benchmark or List translator Score..... LT-P1

Nanomaterial..... No

**MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY GREENSCREEN SCORE | HAZARD TYPE**

LIQUIDFOIL BARRIER [ WATER **BM-4** ALUMINUM **LT-P1** | RES | END | PHY STYRENE BUTADIENE RUBBER (SBR) **LT-UNK** DIPROPYLENE GLYCOL N-BUTYL ETHER (DPNB) **LT-UNK** MIXTURE- 5-CHLORO-2-METHYL-2,3-DIHYDROISOTHIAZOL-3-ONE [26172-55-4] AND 2-METHYL-2,3-DIHYDROISOTHIAZOL-3-ONE [2682-20-4] MIXTURE IN RATIO 3:1 (SH) **LT-UNK** | SKI MAGNESIUM NITRATE 67% SOLUTION **LT-UNK** ETHYLENE VINYL ACETATE POLYMER (EVA) **LT-UNK** ]

**INVENTORY AND SCREENING NOTES:**

**VOLATILE ORGANIC COMPOUND (VOC) CONTENT**

Material (g/l): 185 Regulatory (g/l):

Does the product contain exempt VOCs: No

Are ultra-low VOC tints available: N/A

**CERTIFICATIONS AND COMPLIANCE**

No certifications have been added to this HPD.

<input checked="" type="radio"/> Self-Published*	VERIFIER:	SCREENING DATE: January 30, 2017	EXPIRY DATE*: January 30, 2020
<input type="radio"/> Third Party Verified	VERIFICATION #:	RELEASE DATE: January 30, 2017	* or within 3 months of significant change in product contents

\*See HPDC website for details



## Section 2: Content in Descending Order of Quantity

This section lists materials in a product and the substances in each material based on the Inventory Threshold for each material. If residuals or impurities from the manufacturing or extraction processes are considered for a material, these are inventoried and characterized to the extent described in the Material and/or General Notes. Chemical substances are screened against the HPD Priority Hazard Lists for human and environmental health impacts. Screening is based on best available information; "Not Found" does not necessarily mean there is no potential hazard associated with the product or its contents. More information about Priority Hazard Lists and the GreenScreen can be found online: [www.hpd-collaborative.org](http://www.hpd-collaborative.org) and [www.greenscreenchemicals.org](http://www.greenscreenchemicals.org).

### LIQUIDFOIL BARRIER %: 100.0000 - 100.0000 HPD URL:

Inventory Threshold: 100 ppm Residuals Considered: Yes

Material Notes:

#### WATER

ID: 7732-18-5

%: 75.0000 - 85.0000 GS: BM-4 RC: None NANO: NO ROLE: Solvent

#### HAZARDS:

#### AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

#### SUBSTANCE NOTES:

#### ALUMINUM

ID: 7429-90-5

%: 5.0000 - 10.0000 GS: LT-P1 RC: None NANO: NO ROLE: Heat reflection

#### HAZARDS:

#### AGENCY(IES) WITH WARNINGS:

RESPIRATORY AOEC - Asthmagens Asthmagens (ARs) - sensitizer-induced - inhalable forms only

ENDOCRINE TEDX - Potential Endocrine Disruptors Potential Endocrine Disruptor

PHYSICAL HAZARD (REACTIVE) EU - GHS (H-Statements) H228 - Flammable solid

PHYSICAL HAZARD (REACTIVE) EU - GHS (H-Statements) H250 - Catches fire spontaneously if exposed to air

PHYSICAL HAZARD (REACTIVE) EU - GHS (H-Statements) H261 - In contact with water releases flammable gases

SUBSTANCE NOTES: Not available in a free powder form.

#### STYRENE BUTADIENE RUBBER (SBR)

ID: 9003-55-8

%: 1.0000 - 5.0000 GS: LT-UNK RC: None NANO: NO ROLE: Flexible polymer

#### HAZARDS:

#### AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

DIPROPYLENE GLYCOL N-BUTYL ETHER (DPNB)

ID: 29911-28-2

#: 1.0000 - 5.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Co-solvent

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

MIXTURE- 5-CHLORO-2-METHYL-2,3-DIHYDROISOTHIAZOL-3-ONE [26172-55-4] AND 2-METHYL-2,3-DIHYDROISOTHIAZOL-3-ONE [2682-20-4] MIXTURE IN RATIO 3:1 (SH)

ID:

#: 0.0100 - 0.1000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Preservative

HAZARDS:

AGENCY(IES) WITH WARNINGS:

SKIN SENSITIZE

MAK

Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES:

MAGNESIUM NITRATE 67% SOLUTION

ID: 10377-60-3

#: Impurity/Residual

GS: LT-UNK

RC: None

NANO: NO

ROLE: Impurity/Residual

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

ETHYLENE VINYL ACETATE POLYMER (EVA)

ID: 24937-78-8

#: Impurity/Residual

GS: LT-UNK

RC: None

NANO: NO

ROLE: Impurity/Residual

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

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.



### 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.



### Section 5: General Notes



**MANUFACTURER INFORMATION**

MANUFACTURER: Henry Company  
ADDRESS: 999 N. Sepulveda Blvd.  
Suite 800  
El Segundo, CA 90245  
USA  
WEBSITE: www.henry.com

CONTACT NAME: Whitney Randall  
TITLE: Director, Regulatory Compliance Systems  
PHONE: 484-557-1247  
EMAIL: wrandall@henry.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

- |                                       |  |  |
|---------------------------------------|--|--|
| <b>AQU</b> Aquatic toxicity           | <b>GLO</b> Global warming                    | <b>PHY</b> Physical Hazard (reactive)                |
| <b>CAN</b> Cancer                     | <b>MAM</b> Mammalian/systemic/organ toxicity | <b>REP</b> Reproductive toxicity                     |
| <b>DEV</b> Developmental toxicity     | <b>MUL</b> Multiple hazards                  | <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>OZO</b> Ozone depletion                   | <b>LAN</b> Land Toxicity                             |
| <b>GEN</b> Gene mutation              | <b>PBT</b> Persistent Bioaccumulative Toxic  | <b>NF</b> Not found on Priority Hazard Lists         |

GreenScreen (GS)

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

- Nano** Composed of nanoscale particles or nanotechnology

Declaration Level

- Self-declared** Manufacturer's self-declaration (First Party)
- Independent Lab** Manufacturer's self-declaration using results from an independent lab
- Second Party** Verification by trade association or other interested party
- Third Party** Verification by independent certifier
- 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 does not provide an assessment of health impacts throughout the product life cycle. It does not provide an assessment of exposure or risk associated with product handling or use. It also does not address potential health impacts of: (i) substances used or created during the manufacturing process unless they remain in the final product, or (ii) substances created after the product is delivered for end use (e.g., if the product burns, degrades, or otherwise changes chemical composition).

The HPD Open Standard was created and is maintained and evolved by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry. The HPD Collaborative is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

A disclosure completed in compliance with the HPD Open Standard is referred to as a "Health Product Declaration," or "HPD." 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 Open Standard noted.