Pro-Grade® 586 Fibered Aluminum Roof Coating
by Henry Company

CLASSIFICATION: 07 26 16.00

PRODUCT DESCRIPTION: Pro-Grade® 586 Fibered Aluminum Roof Coating is a premium fibered aluminum coating for new or aged smooth surface BUR, modified bitumen membranes, aged galvanized metal roofs and new asphalt emulsion that forms a tough, brilliant reflective surfacing. It can decrease air conditioning costs and can lower the inside temperature of buildings, up to 20° F cooler in the summer.

Section 1: Summary

CONTENT INVENTORY

<table>
<thead>
<tr>
<th>Threshold per material</th>
<th>Residuals and impurities considered in 1 of 1 materials</th>
<th>see Section 2: Material Notes</th>
<th>see Section 5: General Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,000 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Per GHS SDS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Per OSHA MSDS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Based on the selected Content Inventory Threshold:

- Characterized: 
- Are the Percent Weight and Role provided for all substances? Yes No
- Screened: 
- Are all substances screened using Priority Hazard Lists with results disclosed? Yes No
- Identified: 
- Are all substances disclosed by Name (Specific or Generic) and Identifier? 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.

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>SUBSTANCE</th>
<th>RESIDUAL OR IMPURITY</th>
<th>GREENSCREEN SCORE</th>
<th>HAZARD TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIBERED ALUMINUM ROOF COATING</td>
<td>SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPHATIC LT-UNK</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ASPHALT LT-1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CAN ALUMINUM LT-P1 RES</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>END PHY PERLITE LT-UNK SOLID</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PLATE GLASS LT-UNK SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM., SHOWN TO CONTAIN LESS THAN 0.1 % W/W BENZENE LT-P1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MAM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SILICA GEL LT-UNK ENGLISH FULLERS EARTH UNK 1,2,4-TRIMETHYLBENZENE BM-2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MAM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EYE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SKI</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AQU</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MUL XYLENES BM-1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MAM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SKI</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>END</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MUL QUARTZ LT-1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CAN</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Number of Greenscreen BM-4/BM3 contents.......... 0
Contents highest concern GreenScreen Benchmark or List translator Score............. BM-1
Nanomaterial............. No

INVENTORY AND SCREENING NOTES:

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): Regulatory (g/l): 400
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.

Self-Published* VERIFIER: SCREENING DATE: January 23, 2017 EXPIRY DATE*: January 23, 2020
Third Party Verified VERIFICATION #: RELEASE DATE: January 23, 2017
* or within 3 months of significant change in product contents

*See HPDC website for details
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.hpdc-collaborative.org and www.greenscreenchemicals.org.

### FIBERED ALUMINUM ROOF COATING
- **Inventory Threshold:** 100 ppm
- **Residuals Considered:** Yes

<table>
<thead>
<tr>
<th>Material Notes</th>
<th>ID: 64742-88-7</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPHATIC</strong></td>
<td></td>
</tr>
<tr>
<td>%: 30.0000 - 40.0000</td>
<td></td>
</tr>
<tr>
<td>GS: LT-UNK</td>
<td></td>
</tr>
<tr>
<td>RC: None</td>
<td></td>
</tr>
<tr>
<td>NANO: NO</td>
<td></td>
</tr>
<tr>
<td>ROLE: Solvent</td>
<td></td>
</tr>
</tbody>
</table>

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

- MAMMALIAN
  - EU - GHS (H-Statements)
  - H304 - May be fatal if swallowed and enters airways

- ORGAN TOXICANT
  - EU - GHS (H-Statements)
  - H372 - Causes damage to organs through prolonged or repeated exposure

**SUBSTANCE NOTES:**

- ASPHALT
  - ID: 8052-42-4
  - %: 30.0000 - 40.0000
  - GS: LT-1
  - RC: None
  - NANO: NO
  - ROLE: Waterproofing/flexibility

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

- CANCER
  - IARC
  - Group 2b - Possibly carcinogenic to humans

- CANCER
  - US CDC - Occupational Carcinogens
  - Occupational Carcinogen

- CANCER
  - MAK
  - Carcinogen Group 2 - Considered to be carcinogenic for man

**SUBSTANCE NOTES:** IARC classifies asphalt as a carcinogen when used in road paving applications. This product is not intended for that use.

### ALUMINUM
- **ID:** 7429-90-5
- %: 10.0000 - 15.0000
- GS: LT-P1
- RC: None
- NANO: NO
- ROLE: Heat reflection

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

---

Pro-Grade® 586 Fibered Aluminum Roof Coating Health Product Declaration Page 2 of 7 created via: HPDC Online Builder www.hpd-collaborative.org
### Respiratory AOECC - Asthmagens
- Asthmagen (ARs) - sensitizer-induced - inhalable forms only

### Endocrine TEDX - Potential Endocrine Disruptors
- Potential Endocrine Disruptor

### Physical Hazard (Reactive)
- EU - GHS (H-Statements)
  - H228 - Flammable solid
  - H250 - Catches fire spontaneously if exposed to air
  - H261 - In contact with water releases flammable gases

**SUBSTANCE NOTES:** Not available in a respirable dust form.

### Perlite
- ID: 93763-70-3
  - %: 5.0000 - 10.0000
  - GS: LT-UNK
  - RC: None
  - NANO: NO
  - ROLE: Filler/film strengthener

**HAZARDS:**
- **AGENCY(IES) WITH WARNINGS:**
  - None Found
  - No warnings found on HPD Priority lists

**SUBSTANCE NOTES:**

### Solid / Plate Glass
- ID: 65997-17-3
  - %: 1.0000 - 5.0000
  - GS: LT-UNK
  - RC: None
  - NANO: NO
  - ROLE: Filler/film strengthener

**HAZARDS:**
- **AGENCY(IES) WITH WARNINGS:**
  - None Found
  - No warnings found on HPD Priority lists

**SUBSTANCE NOTES:**

### Solvent Naphtha (Petroleum), Light Arom., Shown to Contain Less Than 0.1 % W/W Benzene
- ID: 64742-95-6
  - %: 1.0000 - 5.0000
  - GS: LT-P1
  - RC: None
  - NANO: NO
  - ROLE: Solvent

**HAZARDS:**
- **AGENCY(IES) WITH WARNINGS:**
  - MAMMALIAN
    - EU - GHS (H-Statements)
      - H304 - May be fatal if swallowed and enters airways
  - MULTIPLE
    - ChemSec - SIN List
      - CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
  - MULTIPLE
    - German FEA - Substances Hazardous to Waters
      - Class 2 - Hazard to Waters
### Silica Gel

**ID:** 112926-00-8  
**%:** 0.1000 - 1.0000  
**GS:** LT-UNK  
**RC:** None  
**NANO:** NO  
**ROLE:** Thixotrope

**HAZARDS:**

None Found  
No warnings found on HPD Priority lists

### English Fullers Earth

**ID:** 8031-18-3  
**%:** 0.1000 - 1.0000  
**GS:** UNK  
**RC:** None  
**NANO:** NO  
**ROLE:** Thixotrope

**HAZARDS:**

None Found  
No warnings found on HPD Priority lists

### 1,2,4-Trimethylbenzene

**ID:** 95-63-6  
**%:** Impurity/Residual  
**GS:** BM-2  
**RC:** None  
**NANO:** NO  
**ROLE:** Impurity/Residual

**HAZARDS:**

- **MAMMALIAN**  
  EU - R-phrases  
  R20 - Harmful by Inhalation (gas or vapor or dust/mist)

- **EYE IRRITATION**  
  EU - R-phrases  
  R36 - Irritating to eyes

- **SKIN IRRITATION**  
  EU - R-phrases  
  R38 - Irritating to skin

- **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

- **SKIN IRRITATION**  
  EU - GHS (H-Statements)  
  H315 - Causes skin irritation

- **EYE IRRITATION**  
  EU - GHS (H-Statements)  
  H319 - Causes serious eye irritation

- **MULTIPLE**  
  German FEA - Substances Hazardous to Waters  
  Class 2 - Hazard to Waters

**SUBSTANCE NOTES:**

### Xylenes

**ID:** 1330-20-7
### HAZARDS:

<table>
<thead>
<tr>
<th>%: Impurity/Residual</th>
<th>GS: BM-1</th>
<th>RC: None</th>
<th>NANO: NO</th>
<th>ROLE: Impurity/Residual</th>
</tr>
</thead>
</table>

#### AGENCY(IES) WITH WARNINGS:

<table>
<thead>
<tr>
<th>MAMMALIAN</th>
<th>EU - R-phrases</th>
<th>R20 - Harmful by Inhalation (gas or vapor or dust/mist)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAMMALIAN</td>
<td>EU - R-phrases</td>
<td>R21 - Harmful in Contact with Skin</td>
</tr>
<tr>
<td>SKIN IRRITATION</td>
<td>EU - R-phrases</td>
<td>R38 - Irritating to skin</td>
</tr>
<tr>
<td>SKIN IRRITATION</td>
<td>EU - GHS (H-Statements)</td>
<td>H315 - Causes skin irritation</td>
</tr>
<tr>
<td>ENDOCRINE</td>
<td>TEDX - Potential Endocrine Disruptors</td>
<td>Potential Endocrine Disruptor</td>
</tr>
<tr>
<td>MULTIPLE</td>
<td>German FEA - Substances Hazardous to Waters</td>
<td>Class 2 - Hazard to Waters</td>
</tr>
</tbody>
</table>

#### SUBSTANCE NOTES:

**QUARTZ**

<table>
<thead>
<tr>
<th>%: Impurity/Residual</th>
<th>GS: LT-1</th>
<th>RC: None</th>
<th>NANO: NO</th>
<th>ROLE: Impurity/Residual</th>
</tr>
</thead>
</table>

#### AGENCY(IES) WITH WARNINGS:

<table>
<thead>
<tr>
<th>CANCER</th>
<th>US CDC - Occupational Carcinogens</th>
<th>Occupational Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANCER</td>
<td>CA EPA - Prop 65</td>
<td>Carcinogen - specific to chemical form or exposure route</td>
</tr>
<tr>
<td>CANCER</td>
<td>IARC</td>
<td>Group 1: Agent is carcinogenic to humans - inhaled from occupational sources</td>
</tr>
<tr>
<td>CANCER</td>
<td>US NIH - Report on Carcinogens</td>
<td>Known to be Human Carcinogen (respirable size - occupational setting)</td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 1 - Substances that cause cancer in man</td>
</tr>
</tbody>
</table>

#### SUBSTANCE NOTES: Not available in respirable form.

---

### 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

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 Unspec ed (insu cient data to benchmark)

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)
UNK Unknown (no data on List Translator Lists)

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.