Pro-Grade® 599 Rubberized Aluminum Roof Coating
by Henry Company

CLASSIFICATION: 07 26 16.00

PRODUCT DESCRIPTION: Pro-Grade® 599 RUBBERIZED ALUMINUM ROOF COATING IS AN ENERGY STAR® CERTIFIED PREMIUM, HIGHLY REFLECTIVE COATING MADE WITH SBS RUBBER POLYMERS, WHICH PROVIDES OUTSTANDING STRENGTH AND ELASTIC PROPERTIES. IT IS AN EXCELLENT WEATHERING SURFACING FOR NEW OR AGED ASPHALT ROOF SURFACES INCLUDING SMOOTH BUR, MODIFIED BITUMEN MEMBRANES AND METAL ROOFS. IT IS SUITABLE FOR COMMERCIAL, INSTITUTIONAL, AND INDUSTRIAL APPLICATIONS. ITS HIGHLY REFLECTIVE PROPERTIES HELP EXTEND ROOF LIFE EXPECTANCY BY RETARDING THE ADVERSE EFFECTS OF SOLAR RADIATION AND REDUCING ROOF SURFACE TEMPERATURES.

Section 1: Summary

Based on the selected Content Inventory Threshold:

- Characterized.................................................... Yes
- Are the Percent Weight and Role provided for all substances? Yes
- Screened........................................................ Yes
- Are all substances screened using Priority Hazard Lists with results disclosed? Yes
- Identified...................................................... Yes
- Are all substances disclosed by Name (Specific or Generic) and Identifier? Yes

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.

CONTENT INVENTORY

<table>
<thead>
<tr>
<th>Threshold per material</th>
<th>Residuals and impurities considered in 1 of 1 materials</th>
<th>Based on the selected Content Inventory Threshold:</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 ppm</td>
<td>☐</td>
<td>Characterized................................................. Yes</td>
</tr>
<tr>
<td>1,000 ppm</td>
<td>☐</td>
<td>Are the Percent Weight and Role provided for all substances? Yes</td>
</tr>
<tr>
<td>Per GHS SDS</td>
<td>☐</td>
<td>Screened...................................................... Yes</td>
</tr>
<tr>
<td>Per OSHA MSDS</td>
<td>☐</td>
<td>Are all substances screened using Priority Hazard Lists with results disclosed? Yes</td>
</tr>
<tr>
<td>Other</td>
<td>☐</td>
<td>Identified.................................................... Yes</td>
</tr>
<tr>
<td></td>
<td>☐</td>
<td>Are all substances disclosed by Name (Specific or Generic) and Identifier? Yes</td>
</tr>
</tbody>
</table>

CONTENT IN DESCENDING ORDER OF QUALITY

Random order of chemical substances, based on descending order of quantity.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY | GREENSCREEN SCORE | HAZARD TYPE
--- | --- | --- | --- | ---
RUBBERIZED ALUMINUM ROOF COATING | SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM., SHOWN TO CONTAIN LESS THAN 0,1 % W/W BENZENE | RES | BM-1
| STYRENE BUTADIENE RUBBER (SBR) | RES | BM-4/BM3
| ASPHALT | RES | BM-1
| WOLLASTONITE | RES | BM-1
| SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPHATIC | RES | BM-1
| DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC, SHOWN TO CONTAIN LESS THAN 3 % DMSO EXTRACT | RES | BM-1
| HYDROCARBONS, C6-20, POLYMERS, HYDROGENATED | RES | BM-1
| 1,2,4-TRIMETHYLBENZENE | RES | BM-1
| 1,2,3-TRIMETHYLBENZENE | RES | BM-1

INVENTORY AND SCREENING NOTES:

- 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): 450
  - Regulatory (g/l): 450
  - 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.
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 and www.greenscreenchemicals.org.

### RUBBERIZED ALUMINUM ROOF COATING

<table>
<thead>
<tr>
<th>Material</th>
<th>Inventory Threshold: 100 ppm</th>
<th>Residuals Considered: Yes</th>
</tr>
</thead>
</table>

#### SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM., SHOWN TO CONTAIN LESS THAN 0.1 % W/W BENZENE

<table>
<thead>
<tr>
<th>%: 15.0000 - 25.0000</th>
<th>GS: LT-P1</th>
<th>RC: None</th>
<th>NANO: NO</th>
<th>ROLE: Solvent</th>
</tr>
</thead>
</table>

**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

**SUBSTANCE NOTES:**

- Not in available in a dry or respirable form.

#### ALUMINUM

<table>
<thead>
<tr>
<th>%: 10.0000 - 20.0000</th>
<th>GS: LT-P1</th>
<th>RC: None</th>
<th>NANO: NO</th>
<th>ROLE: Reflectance</th>
</tr>
</thead>
</table>

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

- **RESPIRATORY**
  - AOEC - 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

- **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 in available in a dry or respirable form.
<table>
<thead>
<tr>
<th>Substance</th>
<th>ID</th>
<th>%:</th>
<th>GS:</th>
<th>RC:</th>
<th>NANO:</th>
<th>ROLE:</th>
<th>HAZARDS:</th>
<th>AGENCY(IES) WITH WARNINGS:</th>
<th>Substance Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>STYRENE BUTADIENE RUBBER (SBR)</td>
<td>9003-55-8</td>
<td>10.0000 - 20.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>NO</td>
<td>Flexible polymer</td>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
<td></td>
</tr>
<tr>
<td>ASPHALT</td>
<td>8052-42-4</td>
<td>10.0000 - 20.0000</td>
<td>LT-1</td>
<td>None</td>
<td>NO</td>
<td>Waterproofing/flexibility</td>
<td>None Found</td>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
</tr>
<tr>
<td>SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPHATIC</td>
<td>64742-88-7</td>
<td>3.0000 - 7.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>NO</td>
<td>Solvent</td>
<td>Mammalian EU - GHS (H-Statements)</td>
<td>H304 - May be fatal if swallowed and enters airways</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Organ Toxicant EU - GHS (H-Statements)</td>
<td>H372 - Causes damage to organs through prolonged or repeated exposure</td>
<td></td>
</tr>
<tr>
<td>WOLLASTONITE</td>
<td>13983-17-0</td>
<td>5.0000 - 10.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>NO</td>
<td>Filler/film strengthener</td>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
<td></td>
</tr>
</tbody>
</table>

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

- **CANCER**
  - IARC: Group 2b - Possibly carcinogenic to humans
  - US CDC - Occupational Carcinogens: Occupational Carcinogen
  - MAK: Carcinogen Group 2 - Considered to be carcinogenic for man

**SUBSTANCE NOTES:**

- IARC classifies asphalt as a carcinogen in road paving applications. This product is not intended for that application.
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC, SHOWN TO CONTAIN LESS THAN 3 % DMSO EXTRACT

ID: 64742-52-5

%: 1.0000 - 5.0000
GS: LT-1
RC: None
NANO: NO
ROLE: Plasticizer

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER
EU - REACH Annex XVII CMRs
Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man

MULTIPLE
ChemSec - SIN List
CMR - Carcinogen, Mutagen &/or Reproductive Toxicant

MULTIPLE
German FEA - Substances Hazardous to Waters
Class 3 - Severe Hazard to Waters

SUBSTANCE NOTES: Contains less than 3% DMSO extractables. Not a carcinogen or mutagen.

SILICA GEL

ID: 112926-00-8

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

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found
No warnings found on HPD Priority lists

SUBSTANCE NOTES:

HYDROCARBONS, C6-20, POLYMERS, HYDROGENATED

ID: 69430-35-9

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

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found
No warnings found on HPD Priority lists

SUBSTANCE NOTES:

1,2,4-TRIMETHYLBENZENE

ID: 95-63-6

%: Impurity/Residual
GS: BM-2
RC: None
NANO: NO
ROLE: Impurity/Residual

HAZARDS:

AGENCY(IES) WITH WARNINGS:

MAMMALIAN
EU - R-phrases
R20 - Harmful by Inhalation (gas or vapor or dust/mist)
### EYE IRRITATION
- R-phrases: R36 - Irritating to eyes

### SKIN IRRITATION
- R-phrases: R38 - Irritating to skin

### ACUTE AQUATIC
- R-phrases: R51 - Toxic to Aquatic Organisms

### CHRON AQUATIC
- GHS (H-Statements): H411 - Toxic to aquatic life with long lasting effects

### SKIN IRRITATION
- GHS (H-Statements): H315 - Causes skin irritation

### EYE IRRITATION
- GHS (H-Statements): H319 - Causes serious eye irritation

### MULTIPLE
- FEA - Substances Hazardous to Waters: Class 2 - Hazard to Waters

### XYLENES

<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>

#### HAZARDS:

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</tr>
<tr>
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</tr>
<tr>
<td>EU - R-phrases</td>
</tr>
<tr>
<td>R21 - Harmful in Contact with Skin</td>
</tr>
<tr>
<td>SKIN IRRITATION</td>
</tr>
<tr>
<td>EU - R-phrases</td>
</tr>
<tr>
<td>R38 - Irritating to skin</td>
</tr>
<tr>
<td>SKIN IRRITATION</td>
</tr>
<tr>
<td>EU - GHS (H-Statements)</td>
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<tr>
<td>H315 - Causes skin irritation</td>
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<td>ENDOCRINE</td>
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<tr>
<td>TEDX - Potential Endocrine Disruptors</td>
</tr>
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<td>Potential Endocrine Disruptor</td>
</tr>
<tr>
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</tr>
<tr>
<td>Class 2 - Hazard to Waters</td>
</tr>
</tbody>
</table>

### 1,2,3-TRIMETHYLBENZENE

<table>
<thead>
<tr>
<th>%: Impurity/Residual</th>
<th>GS: BM-2</th>
<th>RC: None</th>
<th>NANO: NO</th>
<th>ROLE: Impurity/Residual</th>
</tr>
</thead>
</table>

#### HAZARDS:

<table>
<thead>
<tr>
<th>AGENCY(IES) WITH WARNINGS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>None Found</td>
</tr>
<tr>
<td>No warnings found on HPD Priority lists</td>
</tr>
</tbody>
</table>

### MULTIPLE
- German FEA - Substances Hazardous to Waters: Class 2 - Hazard to Waters

### 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...
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.
### 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  

<table>
<thead>
<tr>
<th>Hazard Types</th>
<th>GLO Global warming</th>
<th>PHY Physical Hazard (reactive)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQU Aquatic toxicity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAN Cancer</td>
<td>MAM Mammalian/systemic/organ toxicity</td>
<td>REP Reproductive toxicity</td>
</tr>
<tr>
<td>DEV Developmental toxicity</td>
<td>MUL Multiple hazards</td>
<td>RES Respiratory sensitization</td>
</tr>
<tr>
<td>END Endocrine activity</td>
<td>NEU Neurotoxicity</td>
<td>SKI Skin sensitization/irritation/corrosivity</td>
</tr>
<tr>
<td>EYE Eye irritation/corrosivity</td>
<td>OZO Ozone depletion</td>
<td>LAN Land Toxicity</td>
</tr>
<tr>
<td>GEN Gene mutation</td>
<td>PBT Persistent Bioaccumulative Toxic</td>
<td>NF Not found on Priority Hazard Lists</td>
</tr>
</tbody>
</table>

**GreenScreen (GS)**  
BM-4 Benchmark 4 (prefer-safer chemical)  
BM-3 Benchmark 3 (use but still opportunity for improvement) BM-2  
BM-1 Benchmark 1 (avoid - chemical of high concern)  
BM-U Benchmark Unspeci ed (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

**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.