Pro-Grade® 988 Silicone Tan Roof Coating
by Henry Company

CLASSIFICATION: 07 14 16.00

PRODUCT DESCRIPTION: PRO-GRADE® 988 SILICONE ROOF COATING IS A SOLVENT-FREE, ONE-COMPONENT, MOISTURE-CURING SILICONE RUBBER ROOF COATING SYSTEM FOR USE ON EXISTING SMOOTH ASPHALTIC BUR, SMOOTH OR GRANULATED CAP SHEET, SINGLE PLY ROOF MEMBRANE, WELL-ADHERED ACRYLIC COATING, METAL, SPRAYED-IN-PLACE POLYURETHANE FOAM AND VARIOUS AGED MEMBRANE ROOFING.

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 see Section 5: General Notes</th>
</tr>
</thead>
</table>

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.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY | GREENSCREEN SCORE | HAZARD TYPE
---|---|---|---|---
100% SILICONE WHITE ROOF COATING | SILOXANES AND SILICONES, DI-ME, HYDROXY-TERMINATED | BM-2 | NEPHELINE SYENITE LT-UNK | TITANIUM DIOXIDE LT-1 | CAN POLYDIMETHYL SILOXANE LT-P1 | PBT | OCTAMETHYLCYCLOTETRASILOXANE (D4) BM-1 | REP | END | PBT | MUL 2-BUTANONE, O,O',O''-(METHYLSILYLIDYNE)TRIOXIME (8CI)(9CI) LT-UNK | FUMED SILICA, CRYSTALLINE-FREE LT-UNK | QUARTZ LT-1 | CAN CARBON BLACK LT-1 | CAN FERRIC OXIDE BM-2 | CAN |

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

Volatile Organic Compound (VOC) CONTENT

Material (g/l): 10
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.

RELEASE DATE: January 29, 2017

* or within 3 months of significant change in product contents

Self-Published* or Third Party Verified VERIFICATION #: 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 and www.greenscreenchemicals.org.

### 100% SILICONE WHITE ROOF COATING

**%:** 100.0000 - 100.0000  
**HPD URL:** Inventory Threshold: 100 ppm  
Residuals Considered: Yes

**Material Notes:**

<table>
<thead>
<tr>
<th>SILOXANES AND SILICONES, DI-ME, HYDROXY-TERMINATED</th>
<th>ID: 70131-67-8</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 50.0000 - 60.0000</td>
<td>GS: BM-2</td>
</tr>
</tbody>
</table>

**HAZARDS:**

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

**SUBSTANCE NOTES:**

### NEPHELINE SYENITE

**%:** 20.0000 - 30.0000  
**GS:** LT-UNK  
**RC:** None  
**NANO:** NO  
**ROLE:** Filler/film strengthener

**HAZARDS:**

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

**SUBSTANCE NOTES:**

### TITANIUM DIOXIDE

**%:** 5.0000 - 10.0000  
**GS:** LT-1  
**RC:** None  
**NANO:** NO  
**ROLE:** Pigment

**HAZARDS:**

**CANCER**  
US CDC - Occupational Carcinogens  
Occupational Carcinogen

**CA EPA - Prop 65**  
Carcinogen - specific to chemical form or exposure route

**IARC**  
Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
### POLYDIMETHYL SILICONE

**ID:** 9016-00-6  
**%:** 5.0000 - 10.0000  
**GS:** LT-P1  
**RC:** None  
**NANO:** NO  
**ROLE:** Flexibilizer

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

- **PBT**  
  - **EC - CEPA DSL**  
  - Persistent, Bioaccumulative and inherently Toxic (PBITH) to humans

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

### OCTAMETHYLCYCLOTETRASILOXANE (D4)

**ID:** 556-67-2  
**%:** 3.0000 - 7.0000  
**GS:** BM-1  
**RC:** None  
**NANO:** NO  
**ROLE:** Solvent

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

- **REPRODUCTIVE**  
  - **EU - R-phrases**  
  - R62 - Possible risk of impaired fertility

- **ENDOCRINE**  
  - **EU - Priority Endocrine Disrupters**  
  - Category 1 - In vivo evidence of Endocrine Disruption Activity

- **PBT**  
  - **EU - ESIS PBT**  
  - Under PBT evaluation

- **PBT**  
  - **OR DEQ - Priority Persistent Pollutants**  
  - Priority Persistent Pollutant - Tier 1

- **PBT**  
  - **EC - CEPA DSL**  
  - Persistent, Bioaccumulative and inherently Toxic (PBITE) to the Environment (based on aquatic organisms)

- **PBT**  
  - **EC - CEPA DSL**  
  - Persistent, Bioaccumulative and inherently Toxic (PBITH) to humans

- **RESTRICTED LIST**  
  - **US EPA - PPT Chemical Action Plans**  
  - TSCA Work Plan chemical - Action Plan in development

- **REPRODUCTIVE**  
  - **EU - GHS (H-Statements)**  
  - H361f - Suspected of damaging fertility

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

- **ENDOCRINE**  
  - **ChemSec - SiN List**  
  - Endocrine Disruption

- **ENDOCRINE**  
  - **TEDX - Potential Endocrine Disruptors**  
  - Potential Endocrine Disruptor

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

- **RESTRICTED LIST**  
  - **US EPA - PPT Chemical Action Plans**  
  - TSCA Work Plan chemical - ongoing chemical (risk) assessment
<table>
<thead>
<tr>
<th>Substance Notes:</th>
<th>2-BUTANONE, O,O',O''-(METHYLSILYLIDYNE)TRIOXIME (8CI)(9CI)</th>
<th>ID: 22984-54-9</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 1.0000 - 5.0000</td>
<td>GS: LT-UNK</td>
<td>RC: None</td>
</tr>
<tr>
<td><strong>HAZARDS:</strong></td>
<td><strong>AGENCY(IES) WITH WARNINGS:</strong></td>
<td></td>
</tr>
<tr>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
<td></td>
</tr>
<tr>
<td><strong>SUBSTANCE NOTES:</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance Notes:</th>
<th>FUMED SILICA, CRYSTALLINE-FREE</th>
<th>ID: 112945-52-5</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 1.0000 - 5.0000</td>
<td>GS: LT-UNK</td>
<td>RC: None</td>
</tr>
<tr>
<td><strong>HAZARDS:</strong></td>
<td><strong>AGENCY(IES) WITH WARNINGS:</strong></td>
<td></td>
</tr>
<tr>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
<td></td>
</tr>
<tr>
<td><strong>SUBSTANCE NOTES:</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance Notes:</th>
<th>QUARTZ</th>
<th>ID: 14808-60-7</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: Impurity/Residual</td>
<td>GS: LT-1</td>
<td>RC: None</td>
</tr>
<tr>
<td><strong>HAZARDS:</strong></td>
<td><strong>AGENCY(IES) WITH WARNINGS:</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>CANCER</strong></td>
<td>US CDC - Occupational Carcinogens</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CA EPA - Prop 65</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IARC</td>
</tr>
<tr>
<td></td>
<td><strong>CANCER</strong></td>
<td>US NIH - Report on Carcinogens</td>
</tr>
<tr>
<td></td>
<td><strong>CANCER</strong></td>
<td>MAK</td>
</tr>
<tr>
<td><strong>SUBSTANCE NOTES:</strong> Not available in respirable form.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance Notes:</th>
<th>CARBON BLACK</th>
<th>ID: 1333-86-4</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.0000 - 1.0000</td>
<td>GS: LT-1</td>
<td>RC: None</td>
</tr>
</tbody>
</table>
### HAZARDS:

<table>
<thead>
<tr>
<th>CANCER</th>
<th>AGENCY(IES) WITH WARNINGS:</th>
<th>SUBSTANCE NOTES:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>US CDC - Occupational Carcinogens</td>
<td>Occupational Carcinogen</td>
</tr>
<tr>
<td></td>
<td>CA EPA - Prop 65</td>
<td>Carcinogen - specific to chemical form or exposure route</td>
</tr>
<tr>
<td></td>
<td>IARC</td>
<td>Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources</td>
</tr>
<tr>
<td></td>
<td>MAK</td>
<td>Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification</td>
</tr>
</tbody>
</table>

**FERRIC OXIDE**

| %: 0.0000 - 3.0000 | GS: BM-2 | RC: None | NANO: NO | ROLE: Pigment |

**HAZARDS:**

<table>
<thead>
<tr>
<th>CANCER</th>
<th>AGENCY(IES) WITH WARNINGS:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MAK</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
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
BM-1 Benchmark 1 (avoid - chemical of high concern)
BM-U Benchmark Unspeci 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.