Pro-Grade® 988 Silicone Custom Color 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

Threshold per material
- 100 ppm
- 1,000 ppm
- Per GHS SDS
- Per OSHA SDS
- Other

Residuals and impurities considered in:
- 1 of 1 materials
- see Section 2: Material Notes
- see Section 5: General Notes

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.

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.

VERIFIER: SCREENING DATE: January 29, 2017
RELEASE DATE: January 29, 2017

VERIFICATION #: EXPIRY DATE*: January 29, 2020

* or within 3 months of significant change in product contents
### 100% SILICONE WHITE ROOF COATING

- **%:** 100.0000 - 100.0000
- **Residuals Considered:** Yes
- **Inventory Threshold:** 100 ppm
- **Material Notes:**
  - **SILOXANES AND SILICONES, DI-ME, HYDROXY-TERMINATED**
    - **%:** 50.0000 - 60.0000
    - **ID:** 70131-67-8
    - **GS:** BM-2
    - **RC:** None
    - **NANO:** NO
    - **ROLE:** Waterproofing/polymer
  - **HAZARDS:**
    - **AGENCY(IES) WITH WARNINGS:** None Found
    - **SUBSTANCE NOTES:**

- **NEPHELINE SYENITE**
  - **%:** 20.0000 - 30.0000
  - **ID:** 37244-96-5
  - **GS:** LT-UNK
  - **RC:** None
  - **NANO:** NO
  - **ROLE:** Filler/film strengthener
  - **HAZARDS:**
    - **AGENCY(IES) WITH WARNINGS:** None Found
    - **SUBSTANCE NOTES:**

- **TITANIUM DIOXIDE**
  - **%:** 5.0000 - 10.0000
  - **ID:** 13463-67-7
  - **GS:** LT-1
  - **RC:** None
  - **NANO:** NO
  - **ROLE:** Pigment
  - **HAZARDS:**
    - **AGENCY(IES) WITH WARNINGS:**
      - **CANCER**
        - **US CDC - Occupational Carcinogens**
        - **CA EPA - Prop 65**
        - **IARC**
      - **SUBSTANCE NOTES:**

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CANCER

MAK

Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

SUBSTANCE NOTES: Not available in respirable form.

**POLYDIMETHYL SILOXANE**

<table>
<thead>
<tr>
<th>ID: 9016-00-6</th>
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<tbody>
<tr>
<td>%: 5.0000 - 10.0000</td>
</tr>
<tr>
<td>GS: LT-P1</td>
</tr>
<tr>
<td>RC: None</td>
</tr>
<tr>
<td>NANO: NO</td>
</tr>
<tr>
<td>ROLE: Flexibilizer</td>
</tr>
</tbody>
</table>

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

PBT

EC - CEPA DSL

Persistent, Bioaccumulative and inherently Toxic (PBITH) to humans

**SUBSTANCE NOTES:**

**OCTAMETHYLCYCLOTETRASILOXANE (D4)**

<table>
<thead>
<tr>
<th>ID: 556-67-2</th>
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<tbody>
<tr>
<td>%: 3.0000 - 7.0000</td>
</tr>
<tr>
<td>GS: BM-1</td>
</tr>
<tr>
<td>RC: None</td>
</tr>
<tr>
<td>NANO: NO</td>
</tr>
<tr>
<td>ROLE: Solvent</td>
</tr>
</tbody>
</table>

**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>
</tr>
</thead>
<tbody>
<tr>
<td>ID: 22984-54-9</td>
<td>%: 1.0000 - 5.0000 GS: LT-UNK RC: None NANO: NO ROLE: Catalyst</td>
</tr>
<tr>
<td></td>
<td>HAZARDS: AGENCY(IES) WITH WARNINGS:</td>
</tr>
<tr>
<td></td>
<td>None Found No warnings found on HPD Priority lists</td>
</tr>
<tr>
<td></td>
<td>SUBSTANCE NOTES:</td>
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</table>

<table>
<thead>
<tr>
<th>Substance Notes:</th>
<th>FUMED SILICA, CRYSTALLINE-FREE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID: 112945-52-5</td>
<td>%: 1.0000 - 5.0000 GS: LT-UNK RC: None NANO: NO ROLE: Thixotrope</td>
</tr>
<tr>
<td></td>
<td>HAZARDS: AGENCY(IES) WITH WARNINGS:</td>
</tr>
<tr>
<td></td>
<td>None Found No warnings found on HPD Priority lists</td>
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<tr>
<td></td>
<td>SUBSTANCE NOTES:</td>
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<table>
<thead>
<tr>
<th>Substance Notes:</th>
<th>QUARTZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID: 14808-60-7</td>
<td>%: Impurity/Residual GS: LT-1 RC: None NANO: NO ROLE: Impurity/Residual</td>
</tr>
<tr>
<td></td>
<td>HAZARDS: AGENCY(IES) WITH WARNINGS:</td>
</tr>
<tr>
<td></td>
<td>CANCER US CDC - Occupational Carcinogens Occupational Carcinogen</td>
</tr>
<tr>
<td></td>
<td>CANCER CA EPA - Prop 65 Carcinogen - specific to chemical form or exposure route</td>
</tr>
<tr>
<td></td>
<td>CANCER IARC Group 1: Agent is carcinogenic to humans - inhaled from occupational sources</td>
</tr>
<tr>
<td></td>
<td>CANCER US NIH - Report on Carcinogens Known to be Human Carcinogen (respirable size - occupational setting)</td>
</tr>
<tr>
<td></td>
<td>CANCER MAK Carcinogen Group 1 - Substances that cause cancer in man</td>
</tr>
<tr>
<td></td>
<td>SUBSTANCE NOTES: Not available in respirable form.</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Substance Notes:</th>
<th>CARBON BLACK</th>
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</thead>
<tbody>
<tr>
<td>ID: 1333-86-4</td>
<td>%: 0.0000 - 1.0000 GS: LT-1 RC: None NANO: NO ROLE: Pigment</td>
</tr>
<tr>
<td></td>
<td>CARBON BLACK</td>
</tr>
</tbody>
</table>

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<table>
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<th>HAZARDS:</th>
<th>AGENCY(IES) WITH WARNINGS:</th>
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<tbody>
<tr>
<td>CANCER</td>
<td>US CDC - Occupational Carcinogens</td>
</tr>
<tr>
<td>CANCER</td>
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</tr>
<tr>
<td>CANCER</td>
<td>IARC</td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
</tr>
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</table>

SUBSTANCE NOTES: Not available in respirable form.

<table>
<thead>
<tr>
<th>FERRIC OXIDE</th>
<th>ID: 1309-37-1</th>
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<tbody>
<tr>
<td>%: 0.0000 - 3.0000</td>
<td>GS: BM-2</td>
</tr>
<tr>
<td>RC: None</td>
<td>NANO: NO</td>
</tr>
<tr>
<td>ROLE: Pigment</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>HAZARDS:</th>
<th>AGENCY(IES) WITH WARNINGS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANCER</td>
<td>MAK</td>
</tr>
</tbody>
</table>

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
PHY Physical Hazard (reactive)
RES Respiratory sensitization
SK1 Skin sensitization/irritation/corrosivity
LAN Land Toxicity
NF Not found on Priority Hazard Lists
PBT Persistent Bioaccumulative Toxic

GreenScreen (GS)
BM-4 Benchmark 4 (prefer-safer chemical)
BM-3 Benchmark 3 (use but still opportunity for improvement) BM-2
BM-2 Benchmark 2 (use but search for safer substitutes)
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 (insu cient 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.