Pro-Grade® 988 Silicone Charcoal 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 MSDS
- 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

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: SELF-PUBLISHED
SCREENING DATE: January 29, 2017
EXPIRY DATE*: January 29, 2020
RELEASE DATE: January 29, 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.hpd-collaborative.org and www.greenscreenchemicals.org.

### 100% SILICONE WHITE ROOF COATING

<table>
<thead>
<tr>
<th>Material Notes:</th>
<th>SILOXANES AND SILICONES, DI-ME, HYDROXY-TERMINATED</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 50.0000 - 60.0000</td>
<td>GS: BM-2</td>
</tr>
<tr>
<td></td>
<td>RC: None</td>
</tr>
<tr>
<td></td>
<td>NANO: NO</td>
</tr>
<tr>
<td></td>
<td>ROLE: Waterproofing/polymer</td>
</tr>
</tbody>
</table>

#### HAZARDS:

None Found

AGENCY(IES) WITH WARNINGS:

No warnings found on HPD Priority lists

#### SUBSTANCE NOTES:

- NEPHELINE SYENITE

<table>
<thead>
<tr>
<th>Material Notes:</th>
<th>TITANIUM DIOXIDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 5.0000 - 10.0000</td>
<td>GS: LT-1</td>
</tr>
<tr>
<td></td>
<td>RC: None</td>
</tr>
<tr>
<td></td>
<td>NANO: NO</td>
</tr>
<tr>
<td></td>
<td>ROLE: Pigment</td>
</tr>
</tbody>
</table>

#### 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
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

**ID:** 9016-00-6

<table>
<thead>
<tr>
<th>%:</th>
<th>5.0000 - 10.0000</th>
<th>GS: LT-P1</th>
<th>RC: None</th>
<th>NANO: NO</th>
<th>ROLE: Flexibilizer</th>
</tr>
</thead>
</table>

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

**PBT**

EC - CEPA DSL

Persistent, Bioaccumulative and inherently Toxic (PBITH) to humans

**SUBSTANCE NOTES:**

### OCTAMETHYLCYCLOTETRASILOXANE (D4)

**ID:** 556-67-2

<table>
<thead>
<tr>
<th>%:</th>
<th>3.0000 - 7.0000</th>
<th>GS: BM-1</th>
<th>RC: None</th>
<th>NANO: NO</th>
<th>ROLE: Solvent</th>
</tr>
</thead>
</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 (PBIT) 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
### 2-BUTANONE, O,O',O''-(METHYLSILYLIDYNE)TRIOXIME (8CI)(9CI)

**ID:** 22984-54-9  
**%:** 1.0000 - 5.0000  
**GS:** LT-UNK  
**RC:** None  
**NANO:** NO  
**ROLE:** Catalyst  

### HAZARDS:

None Found

### AGENCY(IES) WITH WARNINGS:

No warnings found on HPD Priority lists

### SUBSTANCE NOTES:

### FUMED SILICA, CRYSTALLINE-FREE

**ID:** 112945-52-5  
**%:** 1.0000 - 5.0000  
**GS:** LT-UNK  
**RC:** None  
**NANO:** NO  
**ROLE:** Thixotrope  

### HAZARDS:

None Found

### AGENCY(IES) WITH WARNINGS:

No warnings found on HPD Priority lists

### SUBSTANCE NOTES:

### QUARTZ

**ID:** 14808-60-7  
**%:** Impurity/Residual  
**GS:** LT-1  
**RC:** None  
**NANO:** NO  
**ROLE:** Impurity/Residual  

### HAZARDS:

<table>
<thead>
<tr>
<th>Cancer</th>
<th>Agency</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cancer</td>
<td>US CDC - Occupational Carcinogens</td>
<td>Occupational Carcinogen</td>
</tr>
<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.

### CARBON BLACK

**ID:** 1333-86-4  
**%:** 0.0000 - 1.0000  
**GS:** LT-1  
**RC:** None  
**NANO:** NO  
**ROLE:** Pigment
<table>
<thead>
<tr>
<th>HAZARDS:</th>
<th>AGENCY(IES) WITH WARNINGS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANCER</td>
<td>US CDC - Occupational Carcinogens</td>
</tr>
<tr>
<td>CANCER</td>
<td>CA EPA - Prop 65</td>
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<tr>
<td>CANCER</td>
<td>IARC</td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
</tr>
</tbody>
</table>

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

**FERRIC OXIDE**

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

<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>

**SUBSTANCE NOTES:**

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**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**

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Pro-Grade® 988 Silicone Charcoal Roof Coating Health Product Declaration Page 5 of 6 created via: HPDC Online Builder www.hpd-collaborative.org
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.