Stego® Mastic
by Stego Industries, LLC
CLASSIFICATION: 07 26 16.00
PRODUCT DESCRIPTION: Stego Mastic is a medium-viscosity, water-based, polymer-modified anionic bituminous/asphaltic emulsion. It is designed to be used as a fluid-applied vapor retardant membrane in conjunction with Stego Wraps and has a VOC content of less than 30 grams/liter. Additional CSI MasterFormat designation: 03 30 00

Section 1: Summary

CONTENT INVENTORY

Inventory Reporting Format
- Nested Materials Method
- Basic Method

Threshold Disclosed Per
- Material
- Product

Threshold level
- 100 ppm
- 1,000 ppm
- Per GHS SDS
- Per OSHA MSDS
- Other

Residuals/Impurities
- Considered
- Partially Considered
- Not Considered

Are All Substances Above the Threshold Indicated:
- Characterized
  - Percent Weight and Role Provided?
    - Yes
    - No
- Screened
  - Using Priority Hazard Lists with Results Disclosed?
    - Yes
    - No
- Identified
  - Name and Identifier Provided?
    - 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
--- | --- | --- | --- | ---
STEGO MASTIC | ASPHALT LT-1 | CAN | WATER BM-4 | STODDARD SOLENT LT-1 | CAN | GEN | MAM | MUL ELASTOMERIC POLYMER BM-U | ADDITIVE 1 BM-U | ADDITIVE 2 BM-U | ADDITIVE 3 BM-U | ADDITIVE 4 BM-U

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

INVENTORY AND SCREENING NOTES:

*** Manufacturer has opted for the basic inventory display – chemical substances are listed by weight in the entire product instead of grouped by material. ***
Substances that have not been screened by the Priority Hazards List have been researched by the supplier for potential health hazards. *** We have worked closely with our suppliers to ensure the least toxic ingredients are chosen while maintaining required performance characteristics. *** Based on the intended application of Stego Mastic, the product is considered an 'architectural sealant' per SCAQMD Rule 1168. The VOC content limit set by this regulatory standard for this category is 250 g/L. The VOC content of Stego Mastic should fall below 30 g/L. This calculation is based on the detailed accounting of VOC's utilized within the product.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

No certifications have been added to this HPD.

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed

Third Party Verified?
- Yes
- No

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #:
SCREENING DATE: 2017-08-17
PUBLISHED DATE: 2017-08-18
EXPIRY DATE: 2020-08-17

Stego Mastic
www.hpd-collaborative.org
HPD v2.1 created via HPDC Builder Page 1 of 6
Section 2: Content in Descending Order of Quantity

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.1, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-1-standard](http://www.hpd-collaborative.org/hpd-2-1-standard)

### STEGO MASTIC

**PRODUCT THRESHOLD:** Per GHS SDS  
**RESIDUALS AND IMPURITIES CONSIDERED:** No

**RESIDUALS AND IMPURITIES NOTES:** Residuals have not been quantified. Efforts are made to ensure that no undesired residuals or impurities remain in the final product, but no additional tests are undertaken to measure potential residual content.

**OTHER PRODUCT NOTES:** Variation in processing necessitates that a range of values be reported for this substance.

### ASPHALT

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>50.0000 - 65.0000</td>
<td>LT-1</td>
<td>None</td>
<td>No</td>
<td>Structure, Physical Character</td>
</tr>
</tbody>
</table>

**HAZARDS:**

- **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:** Variation in processing necessitates that a range of values be reported for this substance.

### WATER

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>20.0000 - 45.0000</td>
<td>BM-4</td>
<td>None</td>
<td>No</td>
<td>Continuous Phase</td>
</tr>
</tbody>
</table>

**HAZARDS:**

- None Found  
- No warnings found on HPD Priority lists

**SUBSTANCE NOTES:** Variation in processing necessitates that a range of values be reported for this substance.

### STODDARD SOLVENT

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0000 - 5.0000</td>
<td>LT-1</td>
<td>None</td>
<td>No</td>
<td>Solvent</td>
</tr>
</tbody>
</table>

**HAZARDS:**

- **CANCER**  
  - EU - R-phrases  
  - R45 - May cause cancer
- **GENE MUTATION**  
  - EU - R-phrases  
  - R46 - May cause heritable genetic damage
- **GENE MUTATION**  
  - EU - GHS (H-Statements)  
  - H340 - May cause genetic defects
<table>
<thead>
<tr>
<th>Substance</th>
<th>Supplier</th>
<th>ID</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>Nano</th>
<th>Role</th>
<th>Agency(ies) with Warnings</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ELASTOMERIC POLYMER</strong></td>
<td></td>
<td>Undisclosed</td>
<td>0.0000 - 20.0000</td>
<td>BM-U</td>
<td>None</td>
<td>No</td>
<td><strong>Strength, Elasticity</strong></td>
<td>None Found</td>
<td>The supplier has only identified this substance as an elastomeric polymer due to the fact that it is a proprietary component of the product and it represents a Trade Secret. To the best of their knowledge and research, there are no known hazards or warnings associated with this material. Variation in processing necessitates that a range of values be reported for this substance.</td>
</tr>
<tr>
<td><strong>ADDITIVE 1</strong></td>
<td></td>
<td>Undisclosed</td>
<td>0.0000 - 2.0000</td>
<td>BM-U</td>
<td>None</td>
<td>No</td>
<td><strong>Rheology Enhancer</strong></td>
<td>None Found</td>
<td>The supplier has only identified this substance as a rheology enhancer to the fact that it is a proprietary component of the product and it represents a Trade Secret. To the best of their knowledge and research, there are no known hazards or warnings associated with this material. Variation in processing necessitates that a range of values be reported for the mass percentage for this substance.</td>
</tr>
<tr>
<td><strong>ADDITIVE 2</strong></td>
<td></td>
<td>Undisclosed</td>
<td>0.0000 - 2.0000</td>
<td>BM-U</td>
<td>None</td>
<td>No</td>
<td><strong>Rheology Enhancer</strong></td>
<td>None Found</td>
<td>The supplier has only identified this substance as a rheology enhancer to the fact that it is a proprietary component of the product and it represents a Trade Secret. To the best of their knowledge and research, there are no known hazards or warnings associated with this material. Variation in processing necessitates that a range of values be reported for the mass percentage for this substance.</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Variation in processing necessitates that a range of values be reported for this substance.
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.

No accessories are required for this product.
Section 5: General Notes

*** Stego Industries (“Stego”) officially embarked on its Footprint Project in June of 2014 to eliminate the carbon emissions of its business operations and help brand a culture of sustainability Stego has incorporated into its business model from the beginning. Our Stego Green Team, which includes every corporate department, is using life cycle thinking to review the impacts of our products and our operations. These ongoing efforts’ ultimate goal is to create a comprehensive corporate sustainability report to demonstrate our commitment to the environment and improve our performance in key areas. We hope you will hold us accountable for the good of our planet so we can prove yellow is green. - See more at: http://www.stegoindustries.com/sustainability/stego_carbon_footprint_project.php#sthash.SFvlD8k4.dpuf

*** Before Stego codified its sustainability efforts under its Footprint project, we already led our industry in green initiatives - both on the projects we supplied our products to and in how we conducted our business operations. Stego proudly converted its corporate headquarters in sunny San Clemente, Calif. to a 100 percent solar powered facility in 2010. Each year, Stego’s solar panels: produce approximately 55.7 megawatts of electricity, offset the equivalent of approximately three acres of trees, could power approximately 1,150 homes for one day. We also provide a number of offsets and incentives to our employees: we began offsetting carbon emissions from all business air travel in 2013 and we offer a vehicle purchase incentive for employees to upgrade their work-use vehicles to more fuel-efficient choices. *** Stego served as a Pilot Manufacturer in the Health Product Declaration Collaborative (HPDC), which was a step taken to help lead the charge towards standardized transparency of building products. More recently, Stego has also become a Supporter Level Sponsor and member of the Manufacturer Advisory Panel (MAP) to further our support and involvement. Stego is also a member of the United States Green Building Council (USGBC) and we have sponsored the ABC Green Home since the project’s inception in 2011. - See more at: http://www.stegoindustries.com/sustainability/footprint_project_achievements.php#sthash.hjwdNMFW.dpuf

*** Stego, the stegosaurus design logo[s], Crete Claw, StegoTack, StegoCrawl, Beast, and the Beast design logo are all deemed to be registered and/or protectable trademarks or service marks of Stego Industries, LLC. © 2017 All rights reserved. Please visit http://www.stegoindustries.com/legal/ for more information.

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: Stego Industries, LLC
ADDRESS: 216 Avenida Fabricante
           Suite 101
           San Clemente California 92672, USA
WEBSITE: https://www.stegoindustries.com/products/stego-mastic

CONTACT NAME: Tom Marks CSI CDT LEED Green Associate
TITLE: Sustainability Manager
PHONE: (877) 464-7834
EMAIL: tommarks@stegoindustries.com

KEY

OSHA MSDS
GHS SDS

Occupational Safety and Health Administration Material Safety Data Sheet
Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Hazard Types

AQU Aquatic toxicity
GLO Global warming
PHY Physical Hazard (reactive)
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 v2.1 is not:

- a method for the assessment of exposure or risk associated with product handling or use,
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

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 standard noted.