**CLASSIFICATION:** 31 31 16

**PRODUCT DESCRIPTION:** Pango Wrap Termite/Vapor Barrier is used as a physical barrier against termites and water vapor. Pango Wrap is a multi-layered plastic extrusion that combines uniquely designed materials with only high grade prime, virgin, polyolefin resins. Pango Wrap can be used in systems for the control of subterranean termites and soil gases. The use of Pango Wrap may allow for the reduced use of pesticides and soil poisons for new construction. Additional CSI MasterFormat Designations: 07 26 00, 03 30 00.

**CONTENT 1: Summary**

**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**

PANGO™ WRAP | COPPER LT-UNK | CARBON BLACK LT-1 | CAN UNDISCLOSED LT-UNK | UNDISCLOSED LT-UNK | UNDISCLOSED LT-UNK |

**VOLATILE ORGANIC COMPOUND (VOC) CONTENT**

VOC Content data is not applicable for this product category.

**CERTIFICATIONS AND COMPLIANCE**

See Section 3 for additional listings.

Other: National Green Building Standard 2012 (ICC 700)

**CONSISTENCY WITH OTHER PROGRAMS**

No pre-checks completed or disclosed

**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

Number of Greenscreen BM-4/BM3 contents: 0
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. *** We have worked closely with our suppliers to ensure the least toxic ingredients are chosen while maintaining required performance characteristics. *** Pango Wrap contains no VOC’s.

**PUBLISHED DATE:** 2017-09-12
**EXPIRY DATE:** 2020-09-12
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

### PANGO™ WRAP

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

**RESIDUALS AND IMPURITIES NOTES:** Due to the physical nature of the product—specifically, the manner in which ingredients are physical bound in the polymer matrix—and the quality built into the sourcing and manufacturing processes, no attempt has been made to catalogue or quantify residuals or impurities at this time.

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

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>ID</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>COPPER</td>
<td>7440-50-8</td>
<td>0.0000 - 10.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Impart physical properties</td>
</tr>
<tr>
<td>HAZARDS:</td>
<td></td>
<td>None Found</td>
<td></td>
<td></td>
<td></td>
<td>No warnings found on HPD Priority lists</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** The additives utilized in Pango Wrap, which lend various properties to the final product during represent Trade Secrets. Therefore, neither the specific percentages of each additive (by weight), nor the exact components themselves, can currently be disclosed.

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>ID</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CARBON BLACK</td>
<td>1333-86-4</td>
<td>0.0000 - 3.0000</td>
<td>LT-1</td>
<td>None</td>
<td>No</td>
<td>Impart physical properties</td>
</tr>
<tr>
<td>HAZARDS:</td>
<td></td>
<td>Cancer US CDC - Occupational Carcinogens</td>
<td>Occupational Carcinogen</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td></td>
<td>Cancer CA EPA - Prop 65</td>
<td>Carcinogen - specific to chemical form or exposure route</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td></td>
<td>Cancer IARC</td>
<td>Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td></td>
<td>Cancer MAK</td>
<td>Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** The additives utilized in Pango Wrap, which lend various properties to the final product during represent Trade Secrets. Therefore, neither the specific percentages of each additive (by weight), nor the exact components themselves, can currently be disclosed. This component is integrally incorporated (compounded) into the final product and cannot escape as dust.

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>ID</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNDISCLOSED</td>
<td></td>
<td>0.0000 - 95.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Bulk polymer</td>
</tr>
<tr>
<td>HAZARDS:</td>
<td></td>
<td>None Found</td>
<td></td>
<td></td>
<td></td>
<td>No warnings found on HPD Priority lists</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** The polyethylene blend for Pango Wrap, which provides the physical structure of the material and lends the product its specialized performance. 

www.hpd-collaborative.org
The polyethylene blend for Pango Wrap, which provides the physical structure of the material and lends the product its specialized performance characteristics, represents a Trade Secret. Therefore, neither the specific percentages of each polyethylene component (by weight), nor the exact resin components themselves, can be disclosed.

### 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.

<table>
<thead>
<tr>
<th>National Green Building Standard 2012 (ICC 700)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CERTIFYING PARTY:</strong> Third Party</td>
</tr>
<tr>
<td><strong>APPLICABLE FACILITIES:</strong> N/A</td>
</tr>
<tr>
<td><strong>CERTIFICATE URL:</strong></td>
</tr>
<tr>
<td><strong>CERTIFICATION AND COMPLIANCE NOTES:</strong></td>
</tr>
<tr>
<td>PANGO® TERMITE DEFENSE SYSTEM (PANGO WRAP, PANGO TAPE, AND PANGO CLAW) MANUFACTURED BY STEGO TECHNOLOGY, LLC HAS BEEN CERTIFIED FOR POINTS TOWARD NGBS GREEN CERTIFICATION TO THE ICC 700 NATIONAL GREEN BUILDING STANDARD AS DETAILED IN NGBS GREEN CERTIFIED PRODUCT REPORT #NGBSGCP-00267; CERTIFICATE #00267. Pango Wrap is Home Innovation NGBS Green Certified. Four points can be earned for the NGBS under Termite Barrier (602.1.5) where a continuous physical foundation termite barrier with low toxicity and no chemical treatments are installed in geographical areas with subterranean termite infestation potential. Pango Wrap is Safe for the Environment.**</td>
</tr>
</tbody>
</table>

### 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...
Section 5: General Notes

Pango Wrap Termite/Vapor Barrier is a physical barrier against Formosan termites and moisture vapor. Through patented and trade secret processes, Pango Wrap combines uniquely designed barrier materials with the flexibility and strength of extruded, high-performance polyolefin film into an easy-to-install, physical barrier against subterranean termites. Pango Wrap comes from the creators of Stego Wrap Vapor Barrier, the most widely-specified below-slab vapor barrier in North America*. Unlike chemical sprays that do nothing to prevent other contaminants from entering the building, Pango Wrap is a high performance vapor barrier as well as a termite defense barrier. Combining these two solutions in one product saves time and labor costs during construction. Pango Wrap is made from game-changing resin technology and provides high performance and longevity. Alternatively, chemical spray solutions must be re-applied to have a chance of being effective long-term against aggressive, subterranean termites. Such termicidies are known to dissipate in effectiveness over time. Pango Wrap provides a long-term solution and may allow builders to greatly reduce or eliminate the use of chemical termicidies for below-slab termite control. || Other applicable CSI MasterFormat Sections include 07 26 00 and 03 30 00 || *Stego Industries, LLC is the exclusive Representative for Pango Wrap and accessory products, which are produced for Stego Technology, LLC, a wholly independent company from Stego Industries, LLC. || **Stego-defined terms defined at www.stegoindustries.com/legal || 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. Pango, the pangolin logo, and Pango Claw are deemed to be registered and/or protectable trademarks of Stego Technology, LLC. © 2017 Stego Industries, LLC. All Rights Reserved. Installation, Warranty and State Approval Information: www.stegoindustries.com/legal.

Section 6: References

MANUFACTURER INFORMATION

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

CONTACT NAME: Ryan Goodwin
TITLE: Product Manager
PHONE: (877) 464-7834
EMAIL: ryangoodwin@stegoindustries.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
GLO Global warming
MAM Mammalian/systemic/organ toxicity
PHY Physical Hazard (reactive)
REP Reproductive toxicity

Pango Wrap Termite/Vapor Barrier
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 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.