BIOSTOP® BF150+ Firestopping Sealant
by RectorSeal LLC

CLASSIFICATION: FIRESTOPPING SEALANT

PRODUCT DESCRIPTION: BIOSTOP® BF 150+ IS A ONE COMPONENT, GENERAL PURPOSE FIRE RATED SEALANT AND SMOKE SEAL FOR CONSTRUCTION JOINTS AND THROUGH-PENETRATIONS. BIOSTOP® BF 150+ IS A WATER BASED, NON-SAG CAULKING GRADE SEALANT THAT IS EASY TO APPLY AS WELL AS TO RETROFIT. IT CURES TO AN ELASTOMERIC SEAL THAT IS SUITABLE WHERE DYNAMIC MOVEMENT IS EXPECTED. IN THE EVENT OF A FIRE, BIOSTOP® BF 150+ WILL PREVENT THE SPREAD OF FLAMES, SMOKE, HOT GASES AND WATER THROUGH JOINT OPENINGS AND THROUGH-PENETRATIONS. NO DILUTION OR MIXING IS REQUIRED FOR USE. NO SPECIAL SKILLS ARE NECESSARY FOR INSTALLATION, BIOSTOP® BF 150+ IS APPLIED WITH A CONVENTIONAL CAULKING GUN, BULK LOADING GUN OR CAN BE TROWELED FROM THE PAIL. FOR LARGE APPLICATIONS, IT CAN BE PUMPED DIRECTLY FROM THE PAIL. BIOSTOP® BF 150+ SYSTEMS ARE RATED FOR UP TO 4 HOURS IN ACCORDANCE WITH ASTM E814 (UL1479) AND ASTM E1966 (UL 2079) TEST STANDARDS.

Section 1: Summary

Based on the selected Content Inventory Threshold:

Characterized .................................................. Yes No
A re the Percent Weight and Role provided for all substances?

Screened ...................................................... Yes No
A re all substances screened using Priority Hazard Lists with results disclosed?

Identified ...................................................... Yes No
A re all substances disclosed by Name (Specific or Generic) and Identifier?

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

BIOSTOP® BF150+ FIRESTOPPING SEALANT | ACRYLATE POLYMER DISPERSION | UNK
CALCIUM CARBONATE | BM3

INVENTORY AND SCREENING NOTES:

“This HPD was created with Basic Inventory.”

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.

VERIFIER:
SCREENING DATE: April 14, 2017
EXPIRY DATE*: April 14, 2020

* or within 3 months of significant change in product contents
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.

<table>
<thead>
<tr>
<th>Material Notes:</th>
<th>BIOSTOP® BF150+ FIRESTOPPING SEALANT</th>
<th>HPD URL:</th>
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<tbody>
<tr>
<td></td>
<td>%: 0.0000</td>
<td>Residuals Considered: No</td>
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<th>Material Notes:</th>
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<tr>
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<tr>
<th>HAZARDS:</th>
<th>AGENCY(IES) WITH WARNINGS:</th>
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</thead>
<tbody>
<tr>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
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</table>

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<tr>
<th>SUBSTANCE NOTES:</th>
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<thead>
<tr>
<th>Material Notes:</th>
<th>CALCIUM CARBONATE</th>
<th>ID: 471-34-1</th>
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<tbody>
<tr>
<td></td>
<td>%: 10.0000 - 40.0000</td>
<td>GS: BM-3</td>
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</table>

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| SUBSTANCE NOTES: | |

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: RectorSeal LLC
ADDRESS: 2601 Spenwick Drive
          Houston, TX 77055
          USA
WEBSITE: www.rectorseal.com

CONTACT NAME: Scott Kerns
TITLE: EHS Manager
PHONE: 713-263-8001 x3286
EMAIL: scott.kerns@rectorseal.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
- 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 Benchmark 2 (use but search for safer substitutes)
- BM-1 Benchmark 1 (avoid - chemical of high concern)
- BM-U Benchmark Unspecified (insufficient 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.