

CLASSIFICATION: FIRESTOPPING SEALANT

PRODUCT DESCRIPTION: BOTHERM™ 100 IS ASBESTOS FREE SINGLE COMPONENT SILICONE THROUGH-PENETRATION FIRESTOP SEALANTS. BOTHERM™100 IS WATERPROOF AND FLEXIBLE SEALANTS THAT ARE SUITABLE FOR BOTH INTERIOR AND EXTERIOR CONDITIONS AS WELL AS WHERE DYNAMIC MOVEMENT IS EXPECTED. IN THE EVENT OF A FIRE, BOTHERM™ 100 WILL PREVENT THE SPREAD OF FLAMES, SMOKE, HOT GASES AND WATER THROUGH JOINT OPENINGS. BOTHERM™ 100 IS UL CLASSIFIED FOR BOTH FLAME AND TEMPERATURE RATINGS UNDER ASTM E 814 (UL 1479) FOR 1, 2 AND 3 HOUR RATED ASSEMBLIES. THE FLEXIBILITY OF BOTHERM™ 100 COMPENSATES FOR MECHANICAL MOVEMENT OF PIPES, CONDUITS, ELECTRICAL CABLES, EXPANSION JOINTS AND WALL/FLOOR JUNCTIONS.

Section 1: Summary

CONTENT INVENTORY

| | | |
|--|--|---|
| Threshold per material <input type="radio"/> 100 ppm <input type="radio"/> 1,000 ppm <input type="radio"/> Per GHS SDS <input checked="" type="radio"/> Per OSHA MSDS <input type="radio"/> Other | Residuals and impurities considered in 0 of 1 materials <input checked="" type="radio"/> see Section 2: Material Notes <input checked="" type="radio"/> see Section 5: General Notes | Based on the selected Content Inventory Threshold: Characterized..... Are the Percent Weight and Role provided for all substances? <input type="radio"/> Yes <input checked="" type="radio"/> No Screened..... Are all substances screened using Priority Hazard Lists with results disclosed? <input type="radio"/> Yes <input checked="" type="radio"/> No Identified..... Are all substances disclosed by Name (Specific or Generic) and Identifier? <input checked="" type="radio"/> Yes <input type="radio"/> 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.

Number of Greenscreen BM-4/BM3 contents..... 0
 Contents highest concern GreenScreen Benchmark or List translator Score..... UNK
 Nanomaterial..... No

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY
GREENSCREEN SCORE | HAZARD TYPE

BOTHERM™ 100 [CALCIUM CARBONATE UNK AMORPHOUS SILICA UNK KETOXIME SILANE UNK CARBON BLACK UNK TITANIUM DIOXIDE UNK]

INVENTORY AND SCREENING NOTES:

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.

| | | | |
|--|-----------------|-----------------------------|--|
| <input checked="" type="radio"/> Self-Published* | VERIFIER: | SCREENING DATE: May 2, 2017 | EXPIRY DATE*: May 2, 2020 |
| <input type="radio"/> Third Party Verified | VERIFICATION #: | RELEASE DATE: May 12, 2017 | * or within 3 months of significant change in product contents |
| *See HPDC website for details | | | |



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.

BIOTHERM™ 100

%: 0.0000 HPD URL:

Inventory Threshold: Per OSHA MSDS Residuals Considered: No

Material Notes:

CALCIUM CARBONATE

ID: 1317-65-3

%: 15.0000 - 45.0000

GS: UNK

RC: None

NANO: NO

ROLE:

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

AMORPHOUS SILICA

ID: 7631-86-9

%: 3.0000 - 7.0000

GS: UNK

RC: None

NANO: NO

ROLE:

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

KETOXIME SILANE

ID: 22984-54-9

%: 3.0000 - 7.0000

GS: UNK

RC: None

NANO: NO

ROLE:

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

CARBON BLACK

ID: 1317-65-3

%: 0.1000 - 1.0000

GS: UNK

RC: None

NANO: NO

ROLE:

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

TITANIUM DIOXIDE

ID: 13463-67-7

%: 0.1000 - 1.0000

GS: UNK

RC: None

NANO: NO

ROLE:

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

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

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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

GLO Global warming

PHY Physical Hazard (reactive)

CAN Cancer

MAM Mammalian/systemic/organ toxicity

REP Reproductive toxicity

DEV Developmental toxicity

MUL Multiple hazards

RES Respiratory sensitization

END Endocrine activity

NEU Neurotoxicity

SKI Skin sensitization/irritation/corrosivity

EYE Eye irritation/corrosivity

OZO Ozone depletion

LAN Land Toxicity

GEN Gene mutation

PBT Persistent Bioaccumulative Toxic

NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)

LT-P1 List Translator Possible Benchmark 1

BM-3 Benchmark 3 (use but still opportunity for improvement) BM-2
Benchmark 2 (use but search for safer substitutes)

LT-1 List Translator Likely Benchmark 1

BM-1 Benchmark 1 (avoid - chemical of high concern)

LT-UNK List Translator Benchmark Unknown (insufficient
information from List Translator lists to benchmark)

BM-U Benchmark Unspecified (insufficient data 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.