

CLASSIFICATION: 07 84 00 Firestopping, 07 84 43 Joint Firestopping, 07 84 13 Penetration Firestopping

PRODUCT DESCRIPTION: SpecSeal® Series SIL Silicone Firestop Sealant is a one-part, neutral-curing silicone sealant exhibiting superior performance in applications where sealing openings in walls and floors are needed to control the spread of fire, smoke, toxic gasses, and water during fire conditions. SpecSeal® Series SIL Silicone Firestop Sealant reacts with atmospheric moisture to form a high-strength, durable seal that will adhere to most building substrates without the use of primers. SpecSeal® products do not contain asbestos or PCBs. **BASIC USES:** SpecSeal® Series SIL Silicone Firestop Sealant is designed for use in firestop systems for through penetrations and joints. This product excels in applications where greater water resistance is required. Systems have been tested for Class 1 W Ratings per UL1479.

Section 1: Summary

Basic Method / Product Threshold

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

Explanation(s) provided for Residuals/Impurities?

- Yes No

All Substances Above the Threshold Indicated Are:

Characterized Yes Ex/SC Yes No
 % weight and role provided for all substances.

Screened Yes Ex/SC Yes No
 All substances screened using Priority Hazard Lists with results disclosed.

Identified Yes Ex/SC Yes No
 One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.

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](#)

SPECSEAL® SERIES SIL SL(SELF-LEVELING) SILICONE FIRESTOP SEALANT [LIMESTONE; CALCIUM CARBONATE LT-UNK SILOXANES AND SILICONES, DI-ME, HYDROXY-TERMINATED BM-2 UNDISCLOSED BM-2 | RES POLYDIMETHYLSILOXANES LT-P1 | PBT NAPHTHA, PETROLEUM, HEAVY ALKYLATE LT-1 | MAM | GEN | CAN 2-BUTANONE, O,O',O''-(METHYLSILYLIDYNE)TRIOXIME (8CI)(9CI) LT-UNK FUMED SILICA, CRYSTALLINE-FREE LT-UNK BUTAN-2-ONE O,O,O,O-SILANETETRAYLTETRAOXIME NoGS N-(2-AMINOETHYL)-N'-[3-(TRIMETHOXYSILYL)PROPYL]ETHYLENEDIAMINE LT-UNK]

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:

None.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 47 Regulatory (g/l): 250

Does the product contain exempt VOCs: No

Are ultra-low VOC tints available: N/A

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: CDPH Standard Method V1.1 (Section 01350/CHPS) - Classroom & Office scenario

VOC content: SCAQMD Rule 1168 Adhesive and Sealant Applications - Adhesives for Wood Flooring, Rubber Floor, Ceramic Tile, Multipurpose Construction, Structural Glazing and Contact, as amended 1/7/05

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

- Yes
 No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2018-11-13

PUBLISHED DATE: 2019-01-21

EXPIRY DATE: 2021-11-13



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

SPECSEAL® SERIES SIL SL(SELF-LEVELING) SILICONE FIRESTOP SEALANT

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Contains quartz as an impurity. Contains Octamethylcyclotetrasiloxane as an impurity.

OTHER PRODUCT NOTES: None.

LIMESTONE; CALCIUM CARBONATE

ID: 1317-65-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2018-11-13

%: 20.0000 - 40.0000

GS: LT-UNK

RC: None

NANO: No

ROLE: Filler

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: Filler

SILOXANES AND SILICONES, DI-ME, HYDROXY-TERMINATED

ID: Undisclosed

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2018-11-13

%: 15.0000 - 25.0000

GS: BM-2

RC: None

NANO: No

ROLE: binder

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: binder

UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2018-11-13

%: 10.0000 - 15.0000

GS: BM-2

RC: None

NANO: No

ROLE: flame retardant

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: flame retardant

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-11-13**%: **8.0000 - 20.0000**GS: **LT-P1**RC: **None**NANO: **No**ROLE: **binder**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

PBT**EC - CEPA DSL****Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans**SUBSTANCE NOTES: **binder****NAPHTHA, PETROLEUM, HEAVY ALKYLATE**ID: **64741-65-7**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-11-13**%: **8.0000 - 12.0000**GS: **LT-1**RC: **None**NANO: **No**ROLE: **solvent**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

MAMMALIAN**EU - GHS (H-Statements)****H304 - May be fatal if swallowed and enters airways****GENE MUTATION****EU - GHS (H-Statements)****H340 - May cause genetic defects****CANCER****EU - GHS (H-Statements)****H350 - May cause cancer****CANCER****EU - REACH Annex XVII CMRs****Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man****GENE MUTATION****EU - REACH Annex XVII CMRs****Mutagen Category 2 - Substances which should be regarded as if they are Mutagenic to man****CANCER****EU - Annex VI CMRs****Carcinogen Category 1B - Presumed Carcinogen based on animal evidence****GENE MUTATION****EU - Annex VI CMRs****Mutagen - Category 1B****GENE MUTATION****Australia - GHS****H340 - May cause genetic defects****CANCER****Australia - GHS****H350 - May cause cancer**SUBSTANCE NOTES: **solvent****2-BUTANONE, O,O',O''-(METHYLSILYLIDYNE)TRIOXIME (8CI)(9CI)**ID: **22984-54-9**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-11-13**%: **1.0000 - 5.0000**GS: **LT-UNK**RC: **None**NANO: **No**ROLE: **binder component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards foundSUBSTANCE NOTES: **binder component****FUMED SILICA, CRYSTALLINE-FREE**ID: **112945-52-5**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-11-13**

%: **1.0000 - 4.0000**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **thickener**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: **thickener**

BUTAN-2-ONE O,O,O,O-SILANETETRAYLTETRAOXIME

ID: **34206-40-1**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-11-13**

%: **0.1000 - 0.5000**

GS: **NoGS**

RC: **None**

NANO: **No**

ROLE: **binder component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: **binder component**

N-(2-AMINOETHYL)-N'-[3-(TRIMETHOXYSILYL)PROPYL]ETHYLENEDIAMINE

ID: **35141-30-1**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-11-13**

%: **0.1000 - 0.4000**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **binder component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

No hazards found

SUBSTANCE NOTES: **binder component**

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.

VOC EMISSIONS

CDPH Standard Method V1.1 (Section 01350/CHPS) - Classroom & Office scenario

CERTIFYING PARTY: **Third Party**

APPLICABLE FACILITIES: **ALL**

CERTIFICATE URL:

https://files.stifirestop.com/25.%20Test%20Reports/CDPH%20Emission%20Reports/CDPH%20v1.1-2010_18290-02_SIL300SL%20Sealant.pdf

CERTIFICATION AND COMPLIANCE NOTES: **None**

ISSUE DATE:	EXPIRY DATE:	CERTIFIER OR LAB:
2016-01-11		UL Environment

VOC CONTENT

SCAQMD Rule 1168 Adhesive and Sealant Applications - Adhesives for Wood Flooring, Rubber Floor, Ceramic Tile, Multipurpose Construction, Structural Glazing and Contact, as amended 1/7/05

CERTIFYING PARTY: **Self-declared**

APPLICABLE FACILITIES: **All**

CERTIFICATE URL:

https://files.stifirestop.com/5.%20Safety%20Data%20Sheets/1.%20English/SDS_SIL%20Self-Leveling%20Silicone%20Sealant.pdf

CERTIFICATION AND COMPLIANCE NOTES: **US EPA Method 24**

ISSUE DATE:	EXPIRY DATE:	CERTIFIER OR LAB:
2018-07-09		Self-declared

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

SpecSeal® Series SIL Silicone Firestop Sealant is available in non-sag (SIL300) and self-leveling (SIL300SL) grades and may also be used to seal vertical and horizontal joints between metals, masonry, concrete and other common construction materials. SpecSeal® Series SIL Silicone Firestop Sealant is specially designed for use in static or dynamic joints. The low modulus characteristic minimizes strain on the substrate surface and the elastomeric quality allows excellent recovery from extension and compression cycling. Applications: SpecSeal® Series SIL Silicone Firestop Sealant is used to seal both through-penetration firestop systems and joint systems.

Representative systems have been tested involving primarily non-combustible penetrants, electrical, data, or telephone cables, construction gaps, expansion joints, curtain wall safing applications, and top-of-wall joints.

Specifications: The silicone firestop sealant shall be a one-part, neutral-cure meeting the requirements of ASTM C920. The firestop sealant shall be UL Classified and tested to ASTM E814 (UL1479), ASTM E1966 (UL2079), and

CAN/ULC-S115. Class 1 W Ratings per UL1479 shall be available for a variety of different firestop systems. Specified Divisions Division 7 07 84 13 Penetration Firestopping Division 22 22 00 00 Plumbing Division 23 23 00 00 HVAC Division 26 26 00 00 Electrical Performance: SpecSeal® Series SIL Silicone Firestop Sealants are the basis for systems that meet the exacting criteria of ASTM E814, (UL 1479), ASTM E1966 (UL 2079), ASTM E1399, as well as the time-temperature requirements of ASTM E119 (UL 263). Firestop systems for both joint systems and through penetration firestops have been tested with ratings up to 4 hours. See UL Systems for more specific information. Additionally, SpecSeal® Series SIL Silicone Firestop Sealant meets ASTM C920, “Standard Specification for Elastomeric Joint Sealants”. For SIL300, the product is listed as Type S, Grade NS, Class 50, Use A, G, M, O. For SIL300SL, the product is listed as Type S, Grade P, Class 25, Use A, G, M, O. Finally, SIL300 (non-sag) has been evaluated by NSF Laboratories for inclusion in Lubrizol’s FGG/BM/CZ CPVC System Compatible program. Features & Benefits • Low Modulus allows dynamic movement in joints. • Auto Bonding allows fresh sealant to adhere to cured sealant. • Excellent Water Resistance for watertight sealing; including Class 1 W Ratings (UL1479). • Ozone and UV Resistant for excellent weathering ability and long service life. • Excellent Chemical Resistance protects in polluted or corrosive atmospheres. • Excellent Adhesion to most building substrates. • Excellent Smoke Seal • Neutral Cure

MANUFACTURER INFORMATION

MANUFACTURER: **Specified Technologies Inc.**
ADDRESS: **210 Evans Way**
Somerville NJ 19067, USA
WEBSITE: **www.stifirestop.com**

CONTACT NAME: **George Gornick, LEED Green Associate**
TITLE: **Applications Engineer**
PHONE: **800-992-1180 Ext. 1013**
EMAIL: **ggornick@stifirestop.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	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)	LT-1 List Translator Likely Benchmark 1
BM-2 Benchmark 2 (use but search for safer substitutes)	LT-UNK List Translator Unknown (insufficient information from List Translator lists to benchmark)
BM-1 Benchmark 1 (avoid - chemical of high concern)	NoGS Unknown (no data on List Translator Lists)
BM-U Benchmark Unspecified (insufficient data to benchmark)	

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 Terms**Inventory Methods:**

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material
Nested Method / Product Threshold Substances listed within each material per threshold indicated per product
Basic Method / Product Threshold Substances listed individually per threshold indicated per product

Nano Composed of nano scale particles or nanotechnology
Third Party Verified Verification by independent certifier approved by HPDC
Preparer Third party preparer, if not self-prepared by manufacturer
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 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.