

HPD UNIQUE IDENTIFIER: 28258

CLASSIFICATION: 07 21 19 Foamed-In-Place Insulation

PRODUCT DESCRIPTION: WALLTITE LWP is a two-component green colored closed-cell spray polyurethane foam system utilizing an EPA-approved, zero ozone-depleting blowing agent having extremely low (less than 1) global warming potential (low-GWP). It is designed for use in commercial construction insulation air barrier system applications. WALLTITE LWP is compatible with most common construction materials, but can only be processed with ELASTOSPRAY® 8000A Isocyanate. The benefits of WALLTITE LWP include: • Superior insulation • Non-fibrous • Controls moisture infiltration • Structural enhancement • Controls air infiltration • FEMA Class II flood-damage resistance rated material

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

| | | | |
|--|--|--|---|
| <p>Inventory Reporting Format</p> <p><input type="radio"/> Nested Materials Method</p> <p><input checked="" type="radio"/> Basic Method</p> <p>Threshold Disclosed Per</p> <p><input type="radio"/> Material</p> <p><input checked="" type="radio"/> Product</p> | <p>Threshold Level</p> <p><input checked="" type="radio"/> 100 ppm</p> <p><input type="radio"/> 1,000 ppm</p> <p><input type="radio"/> Per GHS SDS</p> <p><input type="radio"/> Other</p> | <p>Residuals/Impurities</p> <p><input checked="" type="radio"/> Considered</p> <p><input type="radio"/> Partially Considered</p> <p><input type="radio"/> Not Considered</p> <p>Explanation(s) provided for Residuals/Impurities?</p> <p><input checked="" type="radio"/> Yes <input type="radio"/> No</p> | <p><i>All Substances Above the Threshold Indicated Are:</i></p> <p>Characterized <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p><i>% weight and role provided for all substances.</i></p> <p>Screened <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p><i>All substances screened using Priority Hazard Lists with results disclosed.</i></p> <p>Identified <input type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input checked="" type="radio"/> No</p> <p><i>One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.</i></p> |
|--|--|--|---|

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

WALLTITE® LWP R RESIN [UNDISCLOSED LT-UNK UNDISCLOSED NoGS UNDISCLOSED BM-U | END | MUL | PBT 2-BUTENE, 1,1,1,4,4,4-HEXAFLUORO-, (2Z)- NoGS UNDISCLOSED LT-P1 | END UNDISCLOSED NoGS TETRAMETHYLDIPROPYLENETRIAMINE LT-P1 | MUL UNDISCLOSED LT-UNK | RES | SKI WATER BM-4 UNDISCLOSED LT-UNK]

Number of Greenscreen BM-4/BM3 contents ... 1

Contents highest concern GreenScreen

Benchmark or List translator Score ... LT-P1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

All substances including residuals and impurities above the threshold are included in the screening process.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 31.3 Regulatory (g/l): 31.9

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: UL/GreenGuard Gold Certified

VOC content: GreenGuard - Indoor Air Quality Certified

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2022-02-09

PUBLISHED DATE: 2022-04-20

EXPIRY DATE: 2025-02-09

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 2.2, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-2-standard

WALLTITE® LWP R RESIN

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: All substances including residuals and impurities above the OSHA declared threshold are included in the HPD evaluation.

OTHER PRODUCT NOTES: WALLTITE LWP R is a spray polyurethane foam (SPF) system intended for installation by qualified contractors trained in the processing and application of SPF systems, as well as the plural-component polyurethane dispensing equipment required to do so. Contractors and applicators must comply with all applicable and appropriate storage, handling, processing and safety guidelines. BASF technical service personnel should be consulted in all cases where application conditions are questionable.

UNDISCLOSED

ID: Undisclosed

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2022-02-09 8:51:51

#: 35.0000 - 50.0000 GS: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Polymer species

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This material is a polymer in the foam.

UNDISCLOSED

ID: Undisclosed

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2022-02-09 8:52:55

#: 15.0000 - 30.0000 GS: NoGS RC: None NANO: No SUBSTANCE ROLE: Polymer species

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This material is a polymer in the foam.

UNDISCLOSED

ID: Undisclosed

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2022-02-09 8:28:49

#: 7.0000 - 15.0000 GS: BM-U RC: None NANO: No SUBSTANCE ROLE: Processing regulator

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|--|--|
| END | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |
| MUL | US EPA - PPT Chemical Action Plans | TSCA Work Plan chemical - ongoing chemical (risk) assessment |
| PBT | EHP - San Antonio Statement on BFRs & CFRs | Flame retardant substance class of concern for PB&T & long range transport |

SUBSTANCE NOTES: This material is a processing regulator in the foam.

2-BUTENE, 1,1,1,4,4,4-HEXAFLUORO-, (2Z)-

ID: 692-49-9

| HAZARD SCREENING METHOD: Pharos Chemical and Materials Library | HAZARD SCREENING DATE: 2022-02-09 8:55:26 | |
|---|--|--|
| %: 7.0000 - 10.0000 | GS: NoGS RC: None NANO: No SUBSTANCE ROLE: Blowing agent | |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
| None found | | No warnings found on HPD Priority Hazard Lists |

SUBSTANCE NOTES: This material is a blowing agent in the foam.

UNDISCLOSED

ID: **Undisclosed**

| HAZARD SCREENING METHOD: Pharos Chemical and Materials Library | HAZARD SCREENING DATE: 2022-02-09 8:45:38 | |
|---|---|-------------------------------|
| %: 1.0000 - 5.0000 | GS: LT-P1 RC: None NANO: No SUBSTANCE ROLE: Solvent | |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
| END | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |

SUBSTANCE NOTES: This material is a solvent in the foam.

UNDISCLOSED

ID: **Undisclosed**

| HAZARD SCREENING METHOD: Pharos Chemical and Materials Library | HAZARD SCREENING DATE: 2022-02-09 8:56:56 | |
|---|--|--|
| %: 1.0000 - 5.0000 | GS: NoGS RC: None NANO: No SUBSTANCE ROLE: Polymer species | |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
| None found | | No warnings found on HPD Priority Hazard Lists |

SUBSTANCE NOTES: This material is a polymer in the foam.

TETRAMETHYLDIPROPYLENETRIAMINE

ID: 6711-48-4

| | |
|---|---|
| HAZARD SCREENING METHOD: Pharos Chemical and Materials Library | HAZARD SCREENING DATE: 2022-02-09 7:57:32 |
| %: 0.3000 - 3.0000 | GS: LT-P1 RC: None NANO: No SUBSTANCE ROLE: Accelerator |

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|---|----------------------------|
| MUL | German FEA - Substances Hazardous to Waters | Class 2 - Hazard to Waters |

SUBSTANCE NOTES: This material is an accelerator in the reaction of the foam.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-02-09 8:58:59**

#: **0.3000 - 3.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Accelerator**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|---|--|
| RES | AOEC - Asthmagens | Asthmagen (Rs) - sensitizer-induced |
| SKI | EU - GHS (H-Statements) Annex 6 Table 3-1 | H314 - Causes severe skin burns and eye damage [Skin corrosion/irritation - Category 1A or 1B or 1C] |

SUBSTANCE NOTES: This material is an accelerator in the foam.

WATER

ID: **7732-18-5**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-02-09 7:57:29**

#: **0.0000 - 5.0000** GS: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Diluent**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|------------------------|--|
| None found | | No warnings found on HPD Priority Hazard Lists |

SUBSTANCE NOTES: This material is used as a diluent in the foam.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-02-09 9:29:16**

#: **0.0000 - 3.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Diluent**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|------------------------|--|
| None found | | No warnings found on HPD Priority Hazard Lists |

SUBSTANCE NOTES: This material is a diluent in the foam.

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 | UL/GreenGuard Gold Certified | | |
|--|------------------------------|-------------------------|----------------------|
| CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: BASF Corporation 1703 Crosspoint Avenue Houston, TX 77054 CERTIFICATE URL: https://spot.ul.com/main-app/products/detail/602ab6b38247eaae7833cdbc | ISSUE DATE: 2021-03-23 | EXPIRY DATE: 2022-07-28 | CERTIFIER OR LAB: UL |
| CERTIFICATION AND COMPLIANCE NOTES: GREENGUARD and GREENGUARD Gold Certification – Walltite LWP meets the stringent requirements of GREENGUARD Gold, thus ensuring occupant safety through improved indoor air quality. UL 2818 - 2013 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings. Certificate Number: 224082-420 | | | |

| VOC CONTENT | GreenGuard - Indoor Air Quality Certified | | |
|--|---|-------------------------|----------------------|
| CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: BASF Corporation 1703 Crosspoint Avenue Houston, TX 77054 CERTIFICATE URL: https://spot.ul.com/main-app/products/detail/602ab6b38247eaae7833cdbc | ISSUE DATE: 2021-03-23 | EXPIRY DATE: 2022-07-28 | CERTIFIER OR LAB: UL |
| CERTIFICATION AND COMPLIANCE NOTES: GREENGUARD Certification – Walltite LWP R meets the stringent requirements of GREENGUARD, thus ensuring occupant safety through improved indoor air quality. UL-2818 - 2013 Standard for Chemical Emissions for Building Materials, Finishes and Furnishings. Certificate Number: 224082-410 | | | |

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.

| ELASTOSPRAY 8000A ISOCYANATE | HPD URL: https://www.hpd-collaborative.org/hpd-public-repository/ |
|--|--|
| CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Elastospray 8000A Isocyanate is mixed with WALLTITE LWP R at a 1:1 by volume, to activate the spray foam reaction. | |

Section 5: General Notes

WALLTITE LWP is a spray polyurethane foam (SPF) system intended for installation by qualified contractors trained in the processing and application of SPF systems, as well as the plural-component polyurethane dispensing equipment required to do so. Contractors and applicators must comply with all applicable and appropriate storage, handling, processing and safety guidelines. BASF technical service personnel should be consulted in all cases where application conditions are questionable.

WALLTITE LWP has an estimated theoretical yield range of 4,700-5,100 board feet per set. Actual yield performance can be in excess of or below the referenced estimated theoretical range based on factors affecting density including, however, not limited to: multiple lifts, substrate texture, substrate temperature, overspray loss, windy conditions, altitude, container residue, equipment characteristics & temperatures, applicator technique, etc. For help estimating yield for this and other spray foams, please consult Spray Polyurethane Foam Alliance's SPFA-121 SPF Estimating Reference Guide

MANUFACTURER INFORMATION

MANUFACTURER: BASF Corporation
ADDRESS: 1703 Crosspoint Avenue
 Houston Texas 77054, United States
WEBSITE: <https://www.spf.basf.com>

CONTACT NAME: BASF Corporation
TITLE: Construction and Standards Regulations Specialist
PHONE: 1-(800) 706-0712
EMAIL: pmconstruction@basf.com

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

Hazard Types

| | | |
|---------------------------------------|---|--|
| AQU Aquatic toxicity | LAN Land toxicity | PHY Physical hazard (flammable or reactive) |
| CAN Cancer | MAM Mammalian/systemic/organ toxicity | REP Reproductive |
| DEV Developmental toxicity | MUL Multiple | RES Respiratory sensitization |
| END Endocrine activity | NEU Neurotoxicity | SKI Skin sensitization/irritation/corrosivity |
| EYE Eye irritation/corrosivity | NF Not found on Priority Hazard Lists | UNK Unknown |
| GEN Gene mutation | OZO Ozone depletion | |
| GLO Global warming | PBT Persistent, bioaccumulative, and toxic | |

GreenScreen (GS)

| | |
|---|--|
| BM-4 Benchmark 4 (prefer-safer chemical) | LT-1 List Translator 1 (Likely Benchmark-1) |
| BM-3 Benchmark 3 (use but still opportunity for improvement) | LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.) |
| BM-2 Benchmark 2 (use but search for safer substitutes) | NoGS No GreenScreen. |
| BM-1 Benchmark 1 (avoid - chemical of high concern) | |
| BM-U Benchmark Unspecified (due to insufficient data) | |
| LT-P1 List Translator Possible 1 (Possible Benchmark-1) | |

Recycled Types

PreC Pre-consumer recycled content
PostC Post-consumer recycled content
UNK Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms:

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

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.