

HPD UNIQUE IDENTIFIER: 28257

CLASSIFICATION: 07 21 19 Foamed-In-Place Insulation

PRODUCT DESCRIPTION: ENERTITE G is a two-component low-density open-cell spray polyurethane foam system designed for use in residential construction and common commercial insulation applications. ENERTITE G is compatible with most common construction materials, but can only be processed with ELASTOSPRAY® 8000A Isocyanate. The benefits of ENERTITE G include: • Superior insulation • Non-fibrous • Sound control

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>
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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

ENERTITE G [TRIS(2-CHLOROISOPROPYL) PHOSPHATE BM-U | END | MUL | PBT WATER BM-4 UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK 2-((2-(DIMETHYLAMINO)ETHYL)(METHYL)AMINO)ETHANOL NoGS UNDISCLOSED LT-1 | PBT | MUL POLYETHYLENE GLYCOL MONO(BRANCHED P-NONYLPHENYL) ETHER BM-1tp | END | MUL | REP | AQU | DEV TETRAMETHYLDIPROPYLENETRIAMINE LT-P1 | MUL DIETHYLENE GLYCOL LT-P1 | END UNDISCLOSED BM-2 | END 2-((2-(DIMETHYLAMINO)ETHOXY)ETHYL)(METHYL)AMINO)ETHANOL LT-P1 | SKI | MUL UNDISCLOSED LT-UNK DIAMINOPOLYPROPYLENE GLYCOL LT-P1 | MUL]

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

Contents highest concern GreenScreen

Benchmark or List translator Score ... BM-1tp

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): 68.0 Regulatory (g/l): 68.0

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: 2021-07-14

PUBLISHED DATE: 2022-04-20

EXPIRY DATE: 2024-07-14

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

ENERTITE G

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: ENERTITE G 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

TRIS(2-CHLOROISOPROPYL) PHOSPHATE

ID: 13674-84-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-07-14 12:42:49

#: 15.0000 - 20.0000 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 used to accelerate the chemical reaction.

WATER

ID: 7732-18-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-07-14 13:06:38

#: 15.0000 - 25.0000 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 7:17:02

#: 10.0000 - 15.0000 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 7:21:07		
#: 10.0000 - 15.0000	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.				

2-((2-(DIMETHYLAMINO)ETHYL)(METHYL)AMINO)ETHANOL

ID: **2212-32-0**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-07-14 12:42:50		
#: 5.0000 - 7.0000	GS: NoGS	RC: None	NANO: No	SUBSTANCE ROLE: Coalescent
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: This material is the coalescent in the formation of the foam.				

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-07-14 13:19:27		
#: 5.0000 - 10.0000	GS: LT-1	RC: None	NANO: No	SUBSTANCE ROLE: Flame retardant
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action		
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 acts as the flame retardant in the foam.				

POLYETHYLENE GLYCOL MONO(BRANCHED P-NONYLPHENYL) ETHER

ID: **127087-87-0**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-02-09 7:35:16		
#: 5.0000 - 15.0000	GS: BM-1tp	RC: None	NANO: No	SUBSTANCE ROLE: Polymer species

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
END	OSPAR - Priority PBTs & EDs & equivalent concern	Endocrine Disruptor - Chemical for Priority Action
MUL	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
MUL	US EPA - PPT Chemical Action Plans	TSCA Work Plan chemical - Action Plan in development
END	ChemSec - SIN List	Endocrine Disruption
REP	US EPA - PPT Chemical Action Plans	Reproductive effects
AQU	US EPA - PPT Chemical Action Plans	Highly toxic to aquatic organisms
DEV	US EPA - PPT Chemical Action Plans	Developmental Effects
END	EU - SVHC Authorisation List	Equivalent Concern - Candidate List

SUBSTANCE NOTES: This material is the polymer that reacts to create the foam.

TETRAMETHYLDIPROPYLENETRIAMINE

ID: 6711-48-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-07-14 13:22:32		
%: 3.0000 - 5.0000	GS: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Accelerator
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
MUL	German FE A - Substances Hazardous to Waters	Class 2 - Hazard to Waters		

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

DIETHYLENE GLYCOL

ID: 111-46-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-07-14 12:42:50		
%: 1.0000 - 3.0000	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.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-07-14 13:37:45		
%: 1.0000 - 5.0000	GS: BM-2	RC: None	NANO: No	SUBSTANCE ROLE: Surfactant
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor		

SUBSTANCE NOTES: This material is a surfactant in the creation of the foam.

2-((2-(2-(DIMETHYLAMINO)ETHOXY)ETHYL)(METHYL)AMINO)ETHANOL

ID: 83016-70-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-07-14 13:40:02**

%: **1.0000 - 3.0000** GS: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Accelerator**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKI	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

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

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-02-09 7:28:57**

%: **1.0000 - 5.0000** GS: **LT-UNK** 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 acts as a blowing agent in the creation of the foam.

DIAMINOPOLYPROPYLENE GLYCOL

ID: **9046-10-0**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-07-14 13:41:25**

%: **0.3000 - 1.0000** GS: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coalescent**

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

SUBSTANCE NOTES: This material is a coalescent in the creation of 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/5ad1f0a355b0e82d946ac5fd	ISSUE DATE: 2017-09-25	EXPIRY DATE: 2022-08-15	CERTIFIER OR LAB: UL
CERTIFICATION AND COMPLIANCE NOTES: GREENGUARD and GREENGUARD Gold Certification – Enertite G 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: 100866-420			

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/5ad1f0a355b0e82d946ac5fd	ISSUE DATE: 2017-09-25	EXPIRY DATE: 2022-08-15	CERTIFIER OR LAB: UL
CERTIFICATION AND COMPLIANCE NOTES: GREENGUARD Certification – Enertite G 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: 100866-410			

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 ENERTITE G at a 1:1 by volume, to activate the spray foam reaction.

Section 5: General Notes

ENERTITE G is designed for an application rate of ½ inch minimum to 6 inches maximum per pass. Once installed and material has cooled, it is possible to add additional applications in order to increase the overall installed thickness of SPF. Thicker installations are allowed based on large scale testing. Please see ESR-3102 for additional information. This application procedure is in compliance with the Spray Polyurethane Foam Alliance (SPFA).

ENERTITE G is NOT designed for use as an EXTERIOR roofing system. BASF offers a separate line of products for exterior roofing applications. For more information, please contact your sales representative.

Cold-storage structures such as coolers and freezers demand special design considerations with regard to thermal insulation and moisture-vapor drive.

ENERTITE G should NOT be installed in these types of constructions unless the structure was designed by a design professional for specific use as cold storage.

ENERTITE G is designed for installation in most standard construction configurations using common materials such as wood and wood products, metal and concrete. ENERTITE G has performed successfully when sprayed

onto wood substrates down to 20°F and can be used in colder temperatures using special cold weather application guidelines. For cold weather applications and when spraying onto heat sink-materials such as metal or concrete, ENERTITE G can be sprayed using a flash pass method to enhance adhesion. BASF recommends the use of mock ups or test spray areas before starting the full-scale project to evaluate material performance in current conditions, as well as to ensure proper processing is occurring to create a suitable finished product.

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.