PERMAX 3.0 - B Component by Henry Company

Health Product Declaration v2.1.1

created via: HPDC Online Builder

CLASSIFICATION: 07 27 36.00

PRODUCT DESCRIPTION: PERMAX 3.0 is a 2-component polyurethane spray foam roof system consisting of RT-2035 Resin Components A and B, which when sprayed through special plural component spray equipment, will produce a premium seamless, monolithic, and durable closed-cell polyurethane foam roof. Surfacing with 'cool roof' or an elastomeric multi-coat waterproofing coating, applied immediately onto underlying foam will provide a complete UV and weather barrier system.



Product

Section 1: Summary

Basic Method / Product Threshold

	TFN			

Inventory Reporting Format	
Nested Materials Method Basic Method	
Threshold Disclosed Per	
Material Material	

Threshold level
C 1,000 ppm

Per GHS SDS Per OSHA MSDS

Other

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	C 3	lu	ua	ıə/		ıp	uı	ıu	C	3

Considered

C Partially Considered

Not Considered

Explanation(s) provided for Residuals/Impurities? Yes No

All Substances Above the Threshold Indicated Are:

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

O Yes Ex/SC O Yes O No Screened All substances screened using Priority Hazard Lists with

Identified ○ Yes Ex/SC ○ Yes ○ No All substances disclosed by Name (Specific or Generic) and

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

2035FOAM [1,3-BENZENEDIAMINE, AR-METHYL-, POLYMER WITH OXIRANE LT-UNK POLY(OXY(METHYL-1,2-ETHANEDIYL)), ALPHA,ALPHS'-(OXYDI-2,1-ETHANEDIYL)BIS(OMEGA-HYDROXY- LT-UNK TRIS(1-CHLORO-2-PROPYL)PHOSPHATE (TCPP, TMCP) BM-U | END | PBT | MUL 1,2-ETHANEDIAMINE, POLYMER WITH 2-METHYLOXIRANE AND **OXIRANE LT-UNK CHLOROTRIFLUOROPROPENE NoGS 1,2-**BENZENEDICARBOXYLIC ACID, 3,4,5,6-TETRABROMO-, MIXED ESTERS WITH DIETHYLENE GLYCOL AND PROPYLENE GLYCOL LT-1 | PBT | MUL (DIMETHYLAMINO)CYCLOHEXANE LT-P1 | MUL WATER BM-4 ETHYLENE GLYCOL BM-1 | DEL | END]

Number of Greenscreen BM-4/BM3 contents ... 1 Contents highest concern GreenScreen

results disclosed.

Benchmark or List translator Score ... BM-1

Identifier.

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

None

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: Self-declared

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

C Yes No

PREPARER: Self-Prepared VFRIFIFR:

VERIFICATION #:

SCREENING DATE: 2020-03-30 PUBLISHED DATE: 2020-03-30 EXPIRY DATE: 2023-03-30



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 2.1.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-1-standard

2035FOAM

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: No additional residual and impurity notes

OTHER PRODUCT NOTES: None

1,3-BENZENEDIAMINE, AR-METHYL-, POLYMER WITH OXIRANE

ID: 63641-64-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	HAZARD SCREENING DATE: 2020-03-30			
%: 30.00 - 50.00	gs: LT-UNK	RC: None	nano: No	ROLE: Urethane Component		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNIN	IGS			
None found			No warni	ngs found on HPD Priority Hazard Lists		

SUBSTANCE NOTES: Reacts upon application

POLY(OXY(METHYL-1,2-ETHANEDIYL)), ALPHA,ALPHS'-(OXYDI-2,1-ETHANEDIYL)BIS(OMEGA-HYDROXY-

ID: 9051-51-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD S	CREENING DAT	TE: 2020-03-30	
%: 15.00 - 20.00	GS: LT-UNK	RC: None	NANO: No	ROLE: Urethane Component	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
None found		No	warnings fou	ınd on HPD Priority Hazard L	.ists

SUBSTANCE NOTES: Reacts upon application

TRIS(1-CHLORO-2-PROPYL)PHOSPHATE (TCPP, TMCP)

ID: 13674-84-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	HAZARD SCREENING DATE: 2020-03-30			
%: 10.00 - 15.00	GS: BM-U	RC: None	nano: No	ROLE: Flame retardant		

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

SUBSTANCE NOTES: None

1,2-ETHANEDIAMINE, POLYMER WITH 2-METHYLOXIRANE AND OXIRANE

ID: 26316-40-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREE	HAZARD SCREENING DATE: 2020-03-30			
%: 5.00 - 10.00	GS: LT-UNK	RC: None	nano: No	ROLE: Urethane component		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS				
None found			No warnings	found on HPD Priority Hazard Lists		

SUBSTANCE NOTES: Reacts upon application

CHLOROTRIFLUOROPROPENE

ID: 102687-65-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREEN	HAZARD SCREENING DATE: 2020-03-30			
%: 5.00 - 15.00	GS: NoGS	RC: None	nano: No	ROLE: Blowing agent		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS				
None found			No warnings for	ound on HPD Priority Hazard Lists		

SUBSTANCE NOTES: HFO based, 0 GWP

1,2-BENZENEDICARBOXYLIC ACID, 3,4,5,6-TETRABROMO-, MIXED ESTERS WITH DIETHYLENE GLYCOL AND PROPYLENE GLYCOL

ID: **77098-07-8**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-03-30		
%: 3.00 - 7.00	GS: LT-1	RC: None	NANO:	ROLE: Flame retardant

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action
PBT	EHP - San Antonio Statement on BFRs & CFRs	Flame retardant substance class of concern for PB&T & long range transport
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	TSCA Work Plan chemical - ongoing chemical (risk) assessment

SUBSTANCE NOTES: None

(DIMETHYLAMINO)CYCLOHEXANE

ID: **98-94-2**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-03-30		
%: 0.10 - 5.00	GS: LT-P1	RC: None	nano: No	ROLE: Catalyst
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters		

SUBSTANCE NOTES: None

WATER ID: 7732-18-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREEN	HAZARD SCREENING DATE: 2020-03-30		
%: 0.10 - 2.00	GS: BM-4	RC: None	nano: No	ROLE: Foam aid	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
None found		N	o warnings found	on HPD Priority Hazard Lists	
SUBSTANCE NOTES: None					

ETHYLENE GLYCOL ID: 107-21-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-03-30

MEC: None NANO: No ROLE: Impurity/Residual

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity	
DEVELOPMENTAL	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Developmental Toxicity	
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor	

SUBSTANCE NOTES: Reacts upon application.



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

Self-declared

ISSUE DATE: 2020-

03-30

CERTIFYING PARTY: Self-declared

APPLICABLE FACILITIES: All Henry facilities

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: None

EXPIRY DATE:

CERTIFIER OR LAB: Henry

Company



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.

PERMAX A COMPONENT

HPD URL: https://builder.hpdcollaborative.org/products/1378

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Used to create cured foam.



Section 5: General Notes

No additional general notes for this product.

MANUFACTURER INFORMATION

MANUFACTURER: Henry Company ADDRESS: 999 N. Pacific Coast Hwy

Suite 800

El Segundo CA 90245, USA WEBSITE: www.henry.com

CONTACT NAME: Whitney Randall

TITLE: Director, Regulatory Compliance Systems

PHONE: **484-557-1247**

EMAIL: wrandall@henry.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 (insuficient 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)
NoGS 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 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.