PERMAX 2.0 W - B Component by Henry Company

Health Product Declaration v2.1.1

created via: HPDC Online Builder

CLASSIFICATION: 07 27 36.00

PRODUCT DESCRIPTION: Part B of a two component, polyurethane, spray foam system.



Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

- C Nested Materials Method
- Basic Method

Threshold Disclosed Per

- Material
- Product

Threshold level

- € 100 ppm
- C 1,000 ppm
- Per GHS SDS C Per OSHA MSDS
- Other

Residuals/Impurities

- Considered
- C Partially Considered
- Not Considered

Explanation(s) provided for Residuals/Impurities?

Yes O No

All Substances Above the Threshold Indicated Are:

Characterized

O Yes Ex/SC O Yes O 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

All substances disclosed by Name (Specific or Generic) and Identifier.

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

PERMAX 2.0 - B COMPONENT [1,3-BENZENEDIAMINE, AR-METHYL-, POLYMER WITH OXIRANE LT-UNK TRIS(1-CHLORO-2-PROPYL)PHOSPHATE (TCPP, TMCP) BM-U | END | PBT | MUL 1,2-BENZENEDICARBOXYLIC ACID, 3,4,5,6-TETRABROMO-, MIXED ESTERS WITH DIETHYLENE GLYCOL AND PROPYLENE GLYCOL LT-1 | PBT | MUL 1,2-ETHANEDIAMINE, POLYMER WITH 2-METHYLOXIRANE AND OXIRANE LT-UNK POLY(OXY(METHYL-1,2-ETHANEDIYL)), ALPHA,ALPHS'-(OXYDI-2,1-ETHANEDIYL)BIS(OMEGA-HYDROXY- LT-UNK **CHLOROTRIFLUOROPROPENE NoGS WATER BM-4** (DIMETHYLAMINO)CYCLOHEXANE LT-P1 | MUL 2,4,6-TRI(DIMETHYLAMINOMETHYL)PHENOL LT-UNK | SKI | EYE DIETHYLTOLUENEDIAMINE LT-P1 | AQU | EYE | MUL ETHYLENE GLYCOL BM-1 | DEL | END]

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

Contents highest concern GreenScreen

Benchmark or List translator Score ... BM-1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

No additional inventory notes

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

PERMAX 2.0 - B COMPONENT

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities considered.

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	WARNING	GS			
None found			No warnir	ngs found on HPD Priority Hazard Lists		

SUBSTANCE NOTES: Reacts upon application.

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

ID: 13674-84-5

HAZARD SCREENING METHOD: Ph	aros Chemical and Materials Library	HAZA	ARD SCREE	NING DATE: 2020-	03-30
%: 10.00 - 15.00	GS: BM-U	RC: I	None	nano: No	ROLE: Flame retardant
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS		
ENDOCRINE	TEDX - Potential Endocrine Disruptors		Potentia	l Endocrine Disru	uptor
РВТ	EHP - San Antonio Statement on BFRs &	k CFRs		etardant substan ge transport	ce class of concern for PB&T &
RESTRICTED LIST	US EPA - PPT Chemical Action Plans		TSCA W		al - ongoing chemical (risk)

SUBSTANCE NOTES: None

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

%: 5.00 - 15.00	GS: LT-1		RC: None	NANO: No	ROLE: Flame retardant
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chei	mical for Prio	rity Action	
РВТ	EHP - San Antonio Statement on BFRs & CFRs	Flame reta long range		nce class of	concern for PB&T &
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	TSCA Worl		cal - ongoin	g chemical (risk)
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	s 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	E: 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 fou	nd on HPD Priority Hazard Lis

CHLOROTRIFLUOROPROPENE

ID: 102687-65-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		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 fou	nd on HPD Priority Hazard Lists	

SUBSTANCE NOTES: HFO based, 0 GWP

WATER ID: 7732-18-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREEN	HAZARD SCREENING DATE: 2020-03-30			
%: 1.00 - 5.00	GS: BM-4	RC: None	nano: No	ROLE: Foaming aid		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS				
None found			No warnings fou	nd on HPD Priority Hazard Lists		
SUBSTANCE NOTES: None						

(DIMETHYLAMINO)CYCLOHEXANE

ID: **98-94-2**

HAZARD SCREENING METHOD: Pharos C	hemical and Materials Library	HAZARD SCREENIN	G DATE: 2020-03-	30
%: 0.10 - 10.00	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	e Hazard to Waters	5

SUBSTANCE NOTES: None

2,4,6-TRI(DIMETHYLAMINOMETHYL)PHENOL

ID: **90-72-2**

HAZARD SCREENING METHOD: P	naros Chemical and Materials Library	HAZARD SCREENING DATE: 2020-03-30
%: 0.00 - 5.00	GS: LT-UNK	RC: None NANO: No ROLE: Catalyst
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation

SUBSTANCE NOTES: None

HAZARD SCREENING METHOD: Pharos Ch	emical and Materials Library	HAZARD SCREEN	ING DATE: 2020-03	3-30
%: 0.00 - 5.00	GS: LT-P1	RC: None	nano: No	ROLE: Catalyst

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
CHRON AQUATIC	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters

SUBSTANCE NOTES: None

ETHYLENE GLYCOL ID: 107-21-1

HOD: Pharos Chemical and Materials Library HAZARD			D SCREENING DATE: 2020-03-30		
GS: BM-1	RC: None	NANO: No	ROLE: Impurity/Residual		
AGENCY AND LIST TITLES	WARNINGS				
CA EPA - Prop 65	Developmental toxicity				
US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Developmental Toxicity				
TEDX - Potential Endocrine Disruptors	Poten	Potential Endocrine Disruptor			
	GS: BM-1 AGENCY AND LIST TITLES CA EPA - Prop 65 US NIH - Reproductive & Developmental Monographs	GS: BM-1 RC: None AGENCY AND LIST TITLES WARNIN CA EPA - Prop 65 Develor US NIH - Reproductive & Developmental Monographs Clear In	GS: BM-1 RC: None NANO: No AGENCY AND LIST TITLES WARNINGS CA EPA - Prop 65 Developmental toxicity US NIH - Reproductive & Developmental Monographs Clear Evidence of Adventage of		

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

CERTIFYING PARTY: Self-declared

APPLICABLE FACILITIES: All Henry facilities

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: None

ISSUE DATE: 2020-03-30

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:

Required to produce cured foam.



Section 5: General Notes

No 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

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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

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.