PERMAX 1.8 W - B Component by Henry Company

Health Product Declaration v2.0

created via: HPDC Online Builder

PRODUCT DESCRIPTION: PART B OF A TWO COMPONENT, POLYURETHANE, SPRAY FOAM SYSTEM.



CONTENT

Section 1: Summary

INVENTORY	Residuals and	Based on the selected Content Inventory Threshold:		
Threshold per material	impurities considered in	CharacterizedAre the Percent Weight and Role provided for all substances?	⊙ Yes	O No
• 100 ppm • 1,000 ppm • Per GHS SDS • Per OSHA MSDS	1 of 1 materials • see Section 2: Material Notes • see Section 5:	ScreenedAre all substances screened using Priority Hazard Lists with results disclosed?	• Yes	O No
O Other	General Notes	IdentifiedAre all substances disclosed by Name (Specific or Generic) and Identifier?	⊙ Yes	O No

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 1.8 R - B COMPONENT [1,3-BENZENEDIAMINE, AR-METHYL-, POLYMER WITH OXIRANE LT-UNK (DIMETHYLAMINO)CYCLOHEXANE LT-UNK 1,1,1,3,3-PENTAFLUOROPROPANE 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 | END | 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 WATER BM-4 DIETHYLTOLUENEDIAMINE LT-P1 | MAM | EYE | AQU | MUL 2,4,6-TRI(DIMETHYLAMINOMETHYL)PHENOL LT-UNK | MAM | EYE | SKI ETHYLENE GLYCOL BM-1 | MAM | DEV | 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:

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

CERTIFICATIONS AND COMPLIANCE

VOC Content data is not applicable for this product category.

No certifications have been added to this HPD.

O Self-Published* VERIFIER: SCREENING DATE: January 17, 2017



Section 2: Content in Descending Order of Quantity

This section lists materials in a product and the substances in each material based on the Inventory Threshold for each material. If residuals or impurities from the manufacturing or extraction processes are considered for a material, these are inventoried and characterized to the extent described in the Material and/or General Notes. Chemical substances are screened against the HPD Priority Hazard Lists for human and environmental health impacts. Screening is based on best available information; "Not Found" does not necessarily mean there is no potential hazard associated with the product or its contents. More information about Priority Hazard Lists and the GreenScreen can be found online: www.hpd-collaborative.org and www.greenscreenchemicals.org.

RMAX 1.8 R - B COMPONEN entory Threshold: 100 ppm terial Notes:	T %: 100.0000 - 10 Residuals Consid			
1,3-BENZENEDIAMINE, AF	R-METHYL-, POLYN	MER WITH OXIRANE	ID: 63641-	-64-5
%: 20.0000 - 40.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Urethane component
HAZARDS:		AGEN	ICY(IES) WITH WARNINGS):
None Found		No wa	rnings found on HPD Priorit	y lists
SUBSTANCE NOTES:				
(DIMETHYLAMINO)CYCLC	DHEXANE		ID: 98-94-	2
%: 10.0000 - 15.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Catalyst
HAZARDS:		AGEN	ICY(IES) WITH WARNINGS	i:
None Found		No wa	arnings found on HPD Priorit	y lists
SUBSTANCE NOTES:				
1,1,1,3,3-PENTAFLUOROF	PROPANE		ID: 460-73	3-1
%: 10.0000 - 15.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Blowing agent
HAZARDS:		AGEN	ICY(IES) WITH WARNINGS):
GLOBAL WARMING	US EPA - G	lobal Warming Potentials	Global Warming	Potential greater than 1,000
SUBSTANCE NOTES:				
TRIS(1-CHLORO-2-PROP)	/L)PHOSPHATE (TO	CPP, TMCP)	ID: 13674-	-84-5
%: 10.0000 - 15.0000	GS: BM-U	RC: None	NANO: NO	ROLE: Flame retardant

HAZARDS:		AGENCY	(IES) WITH WARNINGS:	
ENDOCRINE	TEDX - Poter	ntial Endocrine Disruptors	Potential Endocri	ne Disruptor
PBT	EHP - San Antonio Statement on BFRs & CFRs Flame retardant substance class PB&T & long range transport			
RESTRICTED LIST	US EPA - PP	T Chemical Action Plans	TSCA Work Plan (risk) assessment	chemical - ongoing chemical t
SUBSTANCE NOTES:				
1,2-BENZENEDICARBO DIETHYLENE GLYCOL		ETRABROMO-, MIXED ESTER /COL	S WITH ID: 77098-0	07-8
%: 5.0000 - 10.0000	GS: LT-1	RC: None	NANO: NO	ROLE: Flame retardant
HAZARDS:		AGENCY	(IES) WITH WARNINGS:	
РВТ	OSPAR - Prid concern	ority PBTs & EDs & equivalent	PBT - Chemical fo	or Priority Action
ENDOCRINE	OSPAR - Prio concern	ority PBTs & EDs & equivalent	Endocrine Disrup	tor - Chemical for Priority Actio
PBT	EHP - San Aı	ntonio Statement on BFRs & CF	FRs Flame retardant s PB&T & long ran	substance class of concern for ge transport
RESTRICTED LIST	US EPA - PP	T Chemical Action Plans	TSCA Work Plan (risk) assessment	chemical - ongoing chemical t
SUBSTANCE NOTES:				
1,2-ETHANEDIAMINE, F	POLYMER WITH 2-MET	HYLOXIRANE AND OXIRANE	ID: 26316-4	40-5
%: 5.0000 - 10.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Urethane component
HAZARDS:		AGENCY	(IES) WITH WARNINGS:	
None Found		No warnii	ngs found on HPD Priority	lists
SUBSTANCE NOTES:				
POLY(OXY(METHYL-1,: ETHANEDIYL)BIS(OME		HA,ALPHS'-(OXYDI-2,1-	ID: 9051-5 ⁻	1-8
%: 5.0000 - 10.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Urethane component
			(IES) WITH WARNINGS:	

None Found		No warnings fo	und on HPD Priority lis	sts	
SUBSTANCE NOTES:					
WATER			ID: 7732-18-5		
%: 1.0000 - 5.0000	GS: BM-4	RC: None N	IANO: NO	ROLE: Foaming aid	
HAZARDS:		AGENCY(IES)	WITH WARNINGS:		
None Found		No warnings fo	und on HPD Priority lis	ets	
SUBSTANCE NOTES:					
DIETHYLTOLUENEDIA	MINE		ID: 68479-98-	-1	
%: 1.0000 - 5.0000	GS: LT-P1	RC: None N	IANO: NO	ROLE: Catalyst	
HAZARDS:		AGENCY(IES)	WITH WARNINGS:		
MAMMALIAN	EU - R-phrases		R21 - Harmful in Co	ntact with Skin	
MAMMALIAN	EU - R-phrases		R22 - Harmful if Swa	allowed	
EYE IRRITATION	EU - R-phrases		R36 - Irritating to ey	es	
ORGAN TOXICANT	EU - R-phrases		R48: Danger of serion prolonged exposure	ous damage to health by	
ACUTE AQUATIC	EU - R-phrases		R50 - Very Toxic to	Aquatic Organisms	
ACUTE AQUATIC	EU - GHS (H-Sta	tements)	H400 - Very toxic to	aquatic life	
CHRON AQUATIC	EU - GHS (H-Sta	tements)	H410 - Very toxic to effects	aquatic life with long lasting	
EYE IRRITATION	EU - GHS (H-Sta	tements)	H319 - Causes serio	ous eye irritation	
MULTIPLE	German FEA - Su	German FEA - Substances Hazardous to Waters		Class 2 - Hazard to Waters	
SUBSTANCE NOTES:					
0.4.0 TDI/DIMETIN// 44	AINOMETHINI DUENO		ID: 00 70 C		
	MINOMETHYL)PHENOL	DO N	ID: 90-72-2	D015 0	
%: 1.0000 - 5.0000	GS: LT-UNK	RC: None N	IANO: NO	ROLE: Catalyst	
HAZARDS:		AGENCY(IES)	WITH WARNINGS:		
MAMMALIAN	EU - R-phrases		R22 - Harmful if Swa	allowed	
EYE IRRITATION	EU - R-phrases		R36 - Irritating to ey	es	

GHS (H-Statements) GHS (H-Statements) RC: None	H315 - Causes skin im H319 - Causes seriou ID: 107-21-1 NANO: NO	
,	ID: 107-21-1	,
RC: None		ROLE: Impurity/Residual
RC: None		ROLE: Impurity/Residual
RC: None	NANO: NO	ROLE: Impurity/Residual
AGENCY(IES) WITH WARNINGS:	
R-phrases	R22 - Harmful if Swall	owed
PA - Prop 65	Developmental toxicity	у
IIH - Reproductive & Developmental ographs	Clear Evidence of Adv Developmental Toxicit	
X - Potential Endocrine Disruptors	Potential Endocrine D	isruptor
	R-phrases PA - Prop 65 IIH - Reproductive & Developmental ographs	R-phrases R22 - Harmful if Swall PA - Prop 65 Developmental toxicit Clear Evidence of Advographs Clear Evidence of Advographs



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.



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: No HPD link provided

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Required to produce cured foam.



Section 5: General Notes

MANUFACTURER INFORMATION

MANUFACTURER: Henry Company

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Suite 800

El Segundo, CA 90245

USA

WEBSITE: www.henry.com

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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 Classi cation and Labeling of Chemicals Safety Data Sheet

Hazard Types

AQU Aquatic toxicity GLO Global warming

CAN Cancer MAM Mammalian/systemic/organ toxicity

DEV Developmental toxicity
END Endocrine activity
EYE Eye irritation/corrosivity

MUL Multiple hazards
NEU Neurotoxicity
OZO Ozone depletion

GEN Gene mutation 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 Unspeci ed (insu cient 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)
UNK 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

Nano Composed of nanoscale particles or nanotechnology

Declaration Level

Self-declared Manufacturer's self-declaration (First Party)

Independent Lab Manufacturer's self-declaration using results from an independent lab

Second Party Verification by trade association or other interested party

Third Party Verification by independent certifier

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 does not provide an assessment of health impacts throughout the product life cycle. It does not provide an assessment of exposure or risk associated with product handling or use. It also does not address potential health impacts of: (i) substances used or created during the manufacturing process unless they remain in the final product, or (ii) substances created after the product is delivered for end use (e.g., if the product burns, degrades, or otherwise changes chemical composition).

The HPD Open Standard was created and is maintained and evolved by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry. The HPD Collaborative is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

A disclosure completed in compliance with the HPD Open Standard is referred to as a "Health Product Declaration," or "HPD." 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 Open Standard noted.