PERMAX 1.8 R - B Component by Henry Company

CLASSIFICATION: 07 27 36.00

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

Health Product Declaration v2.0

created via: HPDC Online Builder

Section 1: Summary

CONTENT INVENTORY

Threshold per material
- (●) 100 ppm
- ( ) 1,000 ppm
- ( ) Per GHS SDS
- ( ) Per OSHA MSDS
- ( ) Other

Residuals and impurities considered in 1 of 1 materials
- (●) see Section 2: Material Notes
- (●) see Section 5: General Notes

Based on the selected Content Inventory Threshold:

Characterized..... Are the Percent Weight and Role provided for all substances?	(●) Yes	( ) No
Screened..... Are all substances screened using Priority Hazard Lists with results disclosed?	(●) Yes	( ) No
Identified..... Are all substances disclosed by Name (Specific or Generic) and Identifier?	(●) Yes	( ) 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

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

No certifications have been added to this HPD.

(●) Self-Published*	VERIFIER:	SCREENING DATE: January 17, 2017	EXPIRY DATE*: January 17, 2020
( ) Third Party Verified	VERIFICATION #:	RELEASE DATE: January 17, 2017	* or within 3 months of significant change in product contents

See HPDC website for details

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.

PERMAX 1.8 R - B COMPONENT **%: 100.0000 - 100.0000** **HPD URL:**
Inventory Threshold: 100 ppm Residuals Considered: Yes
Material Notes:

1,3-BENZENEDIAMINE, AR-METHYL-, POLYMER WITH OXIRANE ID: 63641-64-5

%: 20.0000 - 40.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Urethane component

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES:

(DIMETHYLAMINO)CYCLOHEXANE ID: 98-94-2

%: 10.0000 - 15.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Catalyst

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES:

1,1,1,3,3-PENTAFLUOROPROPANE ID: 460-73-1

%: 10.0000 - 15.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Blowing agent

HAZARDS:		AGENCY(IES) WITH WARNINGS:
GLOBAL WARMING	US EPA - Global Warming Potentials	Global Warming Potential greater than 1,000

SUBSTANCE NOTES:

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

1,2-BENZENEDICARBOXYLIC ACID, 3,4,5,6-TETRABROMO-, MIXED ESTERS WITH DIETHYLENE GLYCOL AND PROPYLENE GLYCOL ID: 77098-07-8

%: 5.0000 - 10.0000	GS: LT-1	RC: None	NANO: NO	ROLE: Flame retardant

HAZARDS:		AGENCY(IES) WITH WARNINGS:
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action
ENDOCRINE	OSPAR - Priority PBTs & EDs & equivalent concern	Endocrine Disruptor - 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:

1,2-ETHANEDIAMINE, POLYMER WITH 2-METHYLOXIRANE AND OXIRANE ID: 26316-40-5

%: 5.0000 - 10.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Urethane component

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES:

POLY(OXY(METHYL-1,2-ETHANEDIYL)), ALPHA,ALPHS'-(OXYDI-2,1-ETHANEDIYL)BIS(OMEGA-HYDROXY- ID: 9051-51-8

%: 5.0000 - 10.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Urethane component

HAZARDS:	AGENCY(IES) WITH WARNINGS:

None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES:

WATER ID: 7732-18-5

%: 1.0000 - 5.0000	GS: BM-4	RC: None	NANO: NO	ROLE: Foaming aid

HAZARDS:	**AGENCY(IES) WITH WARNINGS:**
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES:

DIETHYLTOLUENEDIAMINE ID: 68479-98-1

%: 1.0000 - 5.0000	GS: LT-P1	RC: None	NANO: NO	ROLE: Catalyst

HAZARDS:		**AGENCY(IES) WITH WARNINGS:**
MAMMALIAN	EU - R-phrases	R21 - Harmful in Contact with Skin
MAMMALIAN	EU - R-phrases	R22 - Harmful if Swallowed
EYE IRRITATION	EU - R-phrases	R36 - Irritating to eyes
ORGAN TOXICANT	EU - R-phrases	R48: Danger of serious damage to health by prolonged exposure.
ACUTE AQUATIC	EU - R-phrases	R50 - Very Toxic to Aquatic Organisms
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 2 - Hazard to Waters

SUBSTANCE NOTES:

2,4,6-TRI(DIMETHYLAMINOMETHYL)PHENOL ID: 90-72-2

%: 1.0000 - 5.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Catalyst

HAZARDS:		**AGENCY(IES) WITH WARNINGS:**
MAMMALIAN	EU - R-phrases	R22 - Harmful if Swallowed
EYE IRRITATION	EU - R-phrases	R36 - Irritating to eyes

SKIN IRRITATION	EU - R-phrases	R38 - Irritating to skin
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation

SUBSTANCE NOTES:

ETHYLENE GLYCOL ID: 107-21-1

%: Impurity/Residual	GS: BM-1	RC: None	NANO: NO	ROLE: Impurity/Residual

HAZARDS:		**AGENCY(IES) WITH WARNINGS:**
MAMMALIAN	EU - R-phrases	R22 - Harmful if Swallowed
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 use to become part of the polymer matrix.

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: This component is required to create a cured foam.

Section 5: General Notes

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: Henry Company

ADDRESS: 999 N. Sepulveda Blvd
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 Classi cation 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 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.