

# PERMAX 2.5 - B Component by Henry Company

CLASSIFICATION: 07 27 36.00

PRODUCT DESCRIPTION: PERMAX 2.5 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 ROOF 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.....	<input type="radio"/>	<input checked="" type="radio"/>
Are the Percent Weight and Role provided for all substances?	Yes	No
Screened.....	<input checked="" type="radio"/>	<input type="radio"/>
Are all substances screened using Priority Hazard Lists with results disclosed?	Yes	No
Identified.....	<input checked="" type="radio"/>	<input type="radio"/>
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

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 (TCP, TMCP) **BM-U** | END | PBT | MUL 1,1,1,3,3-PENTAFLUOROPROPANE **LT-UNK** | 1,2-ETHANEDIAMINE, POLYMER WITH 2-METHYLOXIRANE AND OXIRANE **LT-UNK** 1,2-BENZENEDICARBOXYLIC ACID, 3,4,5,6-TETRABROMO-, MIXED ESTERS WITH DIETHYLENE GLYCOL AND PROPYLENE GLYCOL **LT-1** | PBT | END | MUL (DIMETHYLAMINO)CYCLOHEXANE **LT-UNK** WATER **BM-4** 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.

<input checked="" type="radio"/> Self-Published*	VERIFIER:	SCREENING DATE: January 30, 2017	EXPIRY DATE*: January 30, 2020
<input type="radio"/> Third Party Verified	VERIFICATION #:	RELEASE DATE: January 30, 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](http://www.hpd-collaborative.org) and [www.greenscreenchemicals.org](http://www.greenscreenchemicals.org).

### 2035FOAM

%: 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:

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

ID: 9051-51-8

%: 15.0000 - 20.0000

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:

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:

1,1,1,3,3-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:

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:

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

ID: 77098-07-8

%: 3.0000 - 7.0000 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:

(DIMETHYLAMINO)CYCLOHEXANE

ID: 98-94-2

%: 1.0000 - 5.0000 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:

WATER

ID: 7732-18-5

%: 0.1000 - 2.0000

GS: BM-4

RC: None

NANO: NO

ROLE: Foam aid

HAZARDS:

None Found

AGENCY(IES) WITH WARNINGS:

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

ETHYLENE GLYCOL

ID: 107-21-1

%:

GS: BM-1

RC: None

NANO: NO

ROLE:

HAZARDS:

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:



### 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: Used to create cured foam.



### Section 5: General Notes



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 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 (insufficient 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.