# Permax 3.0-WD - Resin by Henry Company

# **Health Product** Declaration v2.1.1

created via: HPDC Online Builder

CLASSIFICATION: 07 27 36.00

PRODUCT DESCRIPTION: Permax™ 3.0-WD is an HFO blown, 2-component polyurethane spray foam roof system consisting of 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. Top coating the underlying foam immediately with Pro-Grade® 988 high solids silicone or other waterproofing roof coating system, will complete the highly durable UV and weather barrier system.



Product

# Section 1: Summary

## **Basic Method / Product Threshold**

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CUNI			NIUN	T.

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

Threshold level € 100 ppm C 1,000 ppm

Per GHS SDS Per OSHA MSDS

Other

Residuals/Impurities

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 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

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

Benchmark or List translator Score ... BM-1

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: 2020-04-07 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: Residuals and impurities considered.

OTHER PRODUCT NOTES: None

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

ID: 63641-64-5

Materials Library HAZARD	HAZARD SCREENING DATE: 2020-03-30			
NK RC: Nor	ne NANO:	No ROLE: U	rethane Component	
ST TITLES V	WARNINGS			
	No	warnings found o	on HPD Priority Hazard Lists	
-		IST TITLES WARNINGS	IST TITLES WARNINGS	

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 SCREENING DATE: 2020-03-30			
%: <b>15.00 - 20.00</b>	GS: LT-UNK		RC: None	NANO: <b>No</b>	ROLE: Urethane Component	
HAZARD TYPE	AGENCY AND LIST TITLES	WARN	IINGS			
None found			No	warnings fou	und 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: Pharos Chemical and Materials Library		HAZARD SCREEN	HAZARD SCREENING DATE: 2020-03-30		
%: <b>10.00 - 15.00</b>	GS: <b>BM-U</b>	RC: None	nano: <b>No</b>	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			
%: <b>5.00 - 10.00</b> GS: <b>LT-UNK</b>		RC: None	nano: <b>No</b>	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			
%: <b>5.00 - 15.00</b>	GS: NoGS	RC: None	nano: <b>No</b>	ROLE: Blowing agent		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS				
None found			No warnings fo	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 Chem	nical and Materials Library	HAZARD SCF	REENING DATI	E: <b>2020-03-30</b>
%: 3.00 - 7.00	GS: <b>LT-1</b>	RC: <b>None</b>	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: <b>No</b>	ROLE: Catalyst	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters		<b>S</b>	

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: <b>BM-4</b>	RC: None	nano: <b>No</b>	ROLE: Foam aid		
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS				
None found		N	o warnings found	on HPD Priority Hazard Lists		
SUBSTANCE NOTES: Reacts upon application						

ETHYLENE GLYCOL ID: 107-21-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-03-30			
	%: Impurity/Residual	GS: <b>BM-1</b>	RC: None	NANO: <b>No</b>	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

03-30

CERTIFYING PARTY: Self-declared

APPLICABLE FACILITIES: All Henry facilities

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: None

ISSUE DATE: 2020-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.