**Section 1: Summary**

**CONTENT INVENTORY**

<table>
<thead>
<tr>
<th>Threshold per material</th>
<th>Residuals and impurities considered in</th>
<th>Based on the selected Content Inventory Threshold:</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 ppm</td>
<td>1 of 1 materials</td>
<td>Characterized.............................................</td>
</tr>
<tr>
<td>1,000 ppm</td>
<td>see Section 2: Material Notes</td>
<td>Are the Percent Weight and Role provided for all substances? Yes No</td>
</tr>
<tr>
<td>Per GHS SDS</td>
<td>see Section 5: General Notes</td>
<td>Are all substances screened using Priority Hazard Lists with results disclosed? Yes No</td>
</tr>
<tr>
<td>Per OSHA MSDS</td>
<td></td>
<td>Identified...............................................</td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td>Are all substances disclosed by Name (Specific or Generic) and Identifier? Yes No</td>
</tr>
</tbody>
</table>

**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**

| PERMAX 2.0 - B COMPONENT | 1,3-BENZENEDIAMINE, AR-METHYL-, POLYMER WITH OXIRANE LT-UNK (DIMETHYLAMINO)CYCLOHEXANE LT-UNK TRIS(1-CHLORO-2-PROPYL)PHOSPHATE (TCP, TMCP) BM-U END PB T MUL 1,1,1,3,3-PENTAFLUOROPROPANE LT-UNK 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 2,4,6-TRI(DIMETHYLAMINOMETHYL)PHENOL LT-UNK MAM EYE SKI DIETHYLTOLUENEDIAMINE LT P1 MAM EYE AQU MUL ETHYLENE GLYCOL BM-1 MAM DEV END |

- **GREENSCREEN SCORE | HAZARD TYPE**
  - 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* 
- Third Party Verified

*See HPDC website for details

**VERIFIER:**

**SCREENING DATE:** January 17, 2017

**EXPIRY DATE:** January 17, 2020

**RELEASE DATE:** January 29, 2017

* or within 3 months of significant change in product contents
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.

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Inventory Threshold</th>
<th>Residuals Considered</th>
<th>Material Notes</th>
<th>HPD URL</th>
<th>HAZARDS</th>
<th>AGENCY(IES) WITH WARNINGS</th>
<th>SUBSTANCE NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3-BENZENEDIAMINE, AR-METHYL-, POLYMER WITH OXIRANE</td>
<td>100.0000 - 100.0000</td>
<td>Yes</td>
<td>ID: 63641-64-5</td>
<td></td>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
<td></td>
</tr>
<tr>
<td>(DIMETHYLAMINO)CYCLOHEXANE</td>
<td>10.0000 - 15.0000</td>
<td>None</td>
<td>ID: 98-94-2</td>
<td></td>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
<td></td>
</tr>
<tr>
<td>TRIS(1-CHLORO-2-PROPYL)PHOSPHATE (TCPP, TMCP)</td>
<td>10.0000 - 15.0000</td>
<td>None</td>
<td>ID: 13674-84-5</td>
<td></td>
<td>TEDX - Potential Endocrine Disruptors</td>
<td>Potential Endocrine Disruptor</td>
<td></td>
</tr>
<tr>
<td>ENDOCRINE</td>
<td>EHP - San Antonio Statement on BFRs &amp; CFRs</td>
<td>Flame retardant substance class of concern for PB&amp;T &amp; long range transport</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PBT</td>
<td>US EPA - PPT Chemical Action Plans</td>
<td>TSCA Work Plan chemical - ongoing chemical (risk) assessment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RESTRICTED LIST</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PERMAX 2.0 W - B Component Health Product Declaration Page 2 of 6 created via: HPDC Online Builder www.hpd-collaborative.org
### 1,1,1,3,3-PENTAFLUOROPROPANE

| %: 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:**

None Found

No warnings found on HPD Priority lists

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

| %: 5.0000 - 15.0000 | 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:**

None Found

No warnings found on HPD Priority lists

### 1,2-ETHANEDIAMINE, POLYMER WITH 2-METHYLOXIRANE AND OXIRANE

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

**HAZARDS:**

None Found

No warnings found on HPD Priority lists

**SUBSTANCE NOTES:**

None Found

No warnings found on HPD Priority lists

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

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

**HAZARDS:**

None Found

No warnings found on HPD Priority lists

**SUBSTANCE NOTES:**

None Found

No warnings found on HPD Priority lists
### 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

---

### 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:**

<table>
<thead>
<tr>
<th>Category</th>
<th>R-phrases</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAMMALIAN</td>
<td>R22</td>
<td>Harmful if Swallowed</td>
</tr>
<tr>
<td>EYE IRRITATION</td>
<td>R36</td>
<td>Irritating to eyes</td>
</tr>
<tr>
<td>SKIN IRRITATION</td>
<td>R38</td>
<td>Irritating to skin</td>
</tr>
<tr>
<td>SKIN IRRITATION</td>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>EYE IRRITATION</td>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
</tbody>
</table>

---

### DIETHYLTOLENEDIAMINE

**ID:** 68479-98-1  
**%:** 1.0000 - 5.0000  
**GS:** LT-P1  
**RC:** None  
**NANO:** NO  
**ROLE:** Catalyst

#### HAZARDS:

**AGENCY(IES) WITH WARNINGS:**

<table>
<thead>
<tr>
<th>Category</th>
<th>R-phrases</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAMMALIAN</td>
<td>R21</td>
<td>Harmful in Contact with Skin</td>
</tr>
<tr>
<td>MAMMALIAN</td>
<td>R22</td>
<td>Harmful if Swallowed</td>
</tr>
<tr>
<td>EYE IRRITATION</td>
<td>R36</td>
<td>Irritating to eyes</td>
</tr>
<tr>
<td>ORGAN TOXICANT</td>
<td>R48</td>
<td>Danger of serious damage to health by prolonged exposure.</td>
</tr>
<tr>
<td>ACUTE AQUATIC</td>
<td>R50</td>
<td>Very Toxic to Aquatic Organisms</td>
</tr>
<tr>
<td>ACUTE AQUATIC</td>
<td>H400</td>
<td>Very toxic to aquatic life</td>
</tr>
<tr>
<td>CHRON AQUATIC</td>
<td>H410</td>
<td>Very toxic to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>
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:
ETHYLENE GLYCOL
ID: 107-21-1
%: Impurity/Residual
GS: BM-1
RC: None
NANO: NO
ROLE: Impurity/Residual

HAZARDS:
MAMMALIAN
EU - R-phrases
R22 - Harmful if Swallowed

DEVELOPMENTAL
CA EPA - Prop 65
Developmental toxicity

US NIH - Reproductive & Developmental
Monographs

ENDOCRINE
TEDX - Potential Endocrine Disruptor

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

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 recommends or requires for installation (such as adhesive or fasteners).

Section 5: General Notes
PERMAX 2.0 W - B Component Health Product Declaration Page 5 of 6 created via: HPDC Online Builder www.hpd-collaborative.org
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

MULT 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

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 (insu cient 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.