CLASSIFICATION: 06 83 13.00 Wood, Plastics, and Composites (framing): Resin Composite Paneling

PRODUCT DESCRIPTION: Parda® surfaces are derived from medium-grain FSC® certified wood fibers. TorZo's unique acrylic infusion process increases Parda's strength, making it harder than most hardwoods, and making it an excellent, durable product for high wear applications. Available in four earthy colors and four gem tones, this strong surface material will complement its surroundings when used in any residential or commercial project. Also includes CSI 09 64 29: Resin Infused Composite Flooring; and CSI 09 78 00: Resin Infused Composite Wall Panels.

Section 1: Summary

CONTENT INVENTORY

Inventory Reporting Format
- Nested Materials Method
- Basic Method

Threshold Disclosed Per
- Material
- Product

Threshold level
- 100 ppm
- 1,000 ppm
- Per GHS SDS
- Per OSHA MSDS
- Other

Residuals/Impurities
- Considered
- Partially Considered
- Not Considered

Are All Substances Above the Threshold Indicated:
- Characterized Yes No
- Percent Weight and Role Provided? 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 | HAZARD TYPE
--- | --- | ---
NoGS | POLYMERIC MDI (PMDI) LT-UNK | RES MUL CAN EMULSIFIED
NoGS | WAX UNDISCLOSED LT-UNK | SKI UNDISCLOSED LT-UNK | SKI EYE UNDISCLOSED LT-UNK

Number of Greenscreen BM-4/BM3 contents ... 0
Contents highest concern GreenScreen Benchmark or List translator Score ... LT-UNK
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

This Health Product Declaration (HPD) was completed in accordance with the HPD Standard version 2.1, and discloses hazards associated with all substances present at or above 1000 parts per million (ppm) in the finished product, along with the role and percent weight. Therefore, this HPD is consistent with the LEED v4 MR credit Building Product Disclosure and Optimization: Material Ingredient Reporting (Option 1). Substances not "Identified" are those considered proprietary, or are those without a registered identifier.

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

CERTIFICATIONS AND COMPLIANCE

See Section 3 for additional listings.

VOC emissions: CDPH/EHLB/SM V1.1, 2010 (CA 01350)

PREPARER: Self-Prepared
VERIFIER: VERIFICATION #:
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, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

PARDA SURFACE

PRODUCT THRESHOLD: 1000 ppm
RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were “Considered”, based on HPDC Emerging Best Practices. No residuals or impurities are known or expected to be present at or above the Content Inventory Threshold indicated that have a GS score of BM-1, LT-1, LT-P1 or NoGS, based on information provided in supplier disclosure letters, supplier SDS, and as predicted by process chemistry (Pharos CML). However, since process chemistry has not yet been researched for the Acrylic Resin, all potential residuals of this substance have been disclosed based on manufacturer formulation.

OTHER PRODUCT NOTES: Substances used for pigmentation/coloration were each found to be below the threshold for reporting in this HPD (1000 ppm); however, all known pigment substances reviewed returned a GreenScreen score of LT-UNK.

WOOD FIBER - UNSPECIFIED

ID: Not registered
%: 64.8000 - 66.2000
GS: NoGS
RC: None
NANO: No
ROLE: Particleboard Substrate

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

SUBSTANCE NOTES: Particleboard consists of FSC Certified, 100% post industrial recycled & recovered fibers.

UNDISCLOSED

%: 29.3000 - 30.8000
GS: NoGS
RC: None
NANO: No
ROLE: Acrylic Resin

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

SUBSTANCE NOTES: This ingredient is held as proprietary by the manufacturer; however, all known hazards have been disclosed. Listed as "inert" material by TOXNET (http://chem.sis.nlm.nih.gov). Not a dangerous substance according to CLP - GHS. This substance is not classified as dangerous according to Directive 67/548/EEC and CE 1272/2008. This material is not considered hazardous by the OSHA Hazard Communication Standard (29 1910.1200).

POLYMERIC MDI (PMDI)

ID: 9016-87-9
%: 4.0000 - 4.3000
GS: LT-UNK
RC: None
NANO: No
ROLE: Particleboard Adhesive/Binder

SUBSTANCE NOTES: This ingredient is held as proprietary by the manufacturer; however, all known hazards have been disclosed. Listed as "inert" material by TOXNET (http://chem.sis.nlm.nih.gov). Not a dangerous substance according to CLP - GHS. This substance is not classified as dangerous according to Directive 67/548/EEC and CE 1272/2008. This material is not considered hazardous by the OSHA Hazard Communication Standard (29 1910.1200).
<table>
<thead>
<tr>
<th>HAZARDS</th>
<th>AGENCY(IES) WITH WARNINGS</th>
<th>NOTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESPIRATORY</td>
<td>AOEC - Asthmagens</td>
<td>Asthmagen (G) - generally accepted</td>
</tr>
<tr>
<td>RESPIRATORY</td>
<td>US EPA - PPT Chemical Action Plans</td>
<td>Inhalation sensitizer causing asthma and lung damage</td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels</td>
</tr>
<tr>
<td>RESPIRATORY</td>
<td>MAK</td>
<td>Sensitizing Substance Sah - Danger of airway &amp; skin sensitization</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:**

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**EMULSIFIED WAX**

<table>
<thead>
<tr>
<th>%: 0.1000 - 0.7000</th>
<th>GS: NoGS</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Particleboard Water Resistance</th>
</tr>
</thead>
</table>

**HAZARDS:**

None Found

**SUBSTANCE NOTES:** No warnings found on HPD Priority lists

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**UNDISCLOSED**

<table>
<thead>
<tr>
<th>%: Impurity/Residual</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Impurity/Residual</th>
</tr>
</thead>
</table>

**HAZARDS:**

Skin Sensitize

**SUBSTANCE NOTES:** Monomer that is expected to be completely converted in the production of the acrylic resin. This ingredient is held as proprietary by the manufacturer; however, all hazards are disclosed.

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**UNDISCLOSED**

<table>
<thead>
<tr>
<th>%: Impurity/Residual</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Impurity/Residual</th>
</tr>
</thead>
</table>

**HAZARDS:**

Skin Irritation

**SUBSTANCE NOTES:** Monomer that is expected to be completely converted in the production of the acrylic resin. This ingredient is held as proprietary by the manufacturer; however, all hazards are disclosed.
<table>
<thead>
<tr>
<th>%: Impurity/Residual</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Impurity/Residual</th>
</tr>
</thead>
</table>

HAZARDS: None Found

AGENCY(IES) WITH WARNINGS: No warnings found on HPD Priority lists

SUBSTANCE NOTES: Reaction initiator that is expected to be fully consumed during the production of the acrylic resin. This ingredient is held as proprietary by the manufacturer; however, all hazards are disclosed.
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

<table>
<thead>
<tr>
<th>CERTIFYING PARTY:</th>
<th>Third Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>Specialty Polymers/TorZo Surfaces Woodburn, OR 97071</td>
</tr>
<tr>
<td>CERTIFICATE URL:</td>
<td><a href="http://ow.ly/YCD6w">http://ow.ly/YCD6w</a></td>
</tr>
<tr>
<td>ISSUE DATE:</td>
<td>2013-10-10</td>
</tr>
<tr>
<td>EXPIRY DATE:</td>
<td>2013-10-10</td>
</tr>
<tr>
<td>CERTIFIER OR LAB:</td>
<td>Eurofins Air Toxics, Inc.</td>
</tr>
</tbody>
</table>

CERTIFICATION AND COMPLIANCE NOTES: Certificate No.: 18571-1309029R. Reference Standard: CDPH/EHLB/SM V1.1, 2010 “Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1” (CA 01350). Complies with the ≤1/2 CA CREL and formaldehyde maximum allowable concentration criteria specified in SMV1.1 Table 4.1, when modeled for wallcovering area in the classroom and office environments defined in Tables 4.2 - 4.5, and the residential environment defined in Appendix B.

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.

TITEBOND II (VOC: 5.5 G/L)

| HPD URL: | No HPD available |

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:
Optional adhesive for gluing Parda during installation.

Section 5: General Notes
MANUFACTURER INFORMATION

MANUFACTURER: TorZo Surfaces
ADDRESS: 2475 Progress Way
Woodburn OR 97071, USA
WEBSITE: www.TorZoSurfaces.com/products/Parda

CONTACT NAME: Jeff Southwell
TITLE: President
PHONE: 503.982.7455
EMAIL: jsouthwell@torzosurfaces.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 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)
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.