

CLASSIFICATION: 06 05 13

created via: HPDC Online Builder

PRODUCT DESCRIPTION: High pressure decorative laminates in Grades 10, 12, 20 and A-7 consist of multiple ply's of kraft paper saturated with phenolic resin solids to form the core base Laminate surfaces consist of papers saturated with melamine resin solids. Formica laminate can fabricated as an applied surface to countertops, table tops, casework, wall panels and other decorative surfaces where design, ease of maintenance and lasting durability are required.

## Section 1: Summary

## Basic Method / Product Threshold

### 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
- Explanation(s) provided for Residuals/Impurities?  
 Yes  No

Are All Substances Above the Threshold Indicated:

- Characterized**  
Percent Weight and Role Provided?  Yes  No
- Screened**  
Using Priority Hazard Lists with Results Disclosed?  Yes  No
- Identified**  
Name and Identifier 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** | **RESIDUAL OR IMPURITY**  
**GREENSCREEN SCORE** | **HAZARD TYPE**

**HIGH PRESSURE LAMINATE** | **KRAFT PAPER** **NoGS** **PHENOLIC RESIN** **LT-P1** | **RES MELAMINE RESIN** **LT-UNK** **UNDISCLOSED (DECORATIVE SURFACE LAYER)** **NoGS** ]

Number of Greenscreen BM-4/BM3 contents..... 0  
Contents highest concern GreenScreen Benchmark or List translator Score..... LT-P1  
Nanomaterial..... No

### INVENTORY AND SCREENING NOTES:

Ranges for substances' percent weight are provided.

### VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

### CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

Formaldehyde emissions: GreenGuard - Gold (previously Children & Schools)  
Sustainable forestry: FSC Certification - Chain of Custody (COC)  
Other: NSF 35

### CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

- Yes  
 No

PREPARER: Self-Prepared  
VERIFIER:  
VERIFICATION #:

SCREENING DATE: 2018-02-07  
PUBLISHED DATE: 2018-02-07  
EXPIRY DATE: 2021-02-07

## 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](http://www.hpd-collaborative.org/hpd-2-1-standard)

### HIGH PRESSURE LAMINATE

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals are tested by UL environment on a quarterly basis and Greenguard Gold certificate is achieved for Total VOC on all Formica Grades 10, 12, 20 and A-7.

OTHER PRODUCT NOTES: Formica HPL are layers of paper saturated with phenolic resins for the core and melamine resins for the surface décor sheets. They are pressed under high pressure and 300 deg F temperatures. The monomers and polymers react under these conditions thus polymerizing into a thermoset hard resin system. The residuals are a very small fraction of the unreacted monomers and are less than 7.3 parts per billion under the Greenguard test protocol.mentioned in this HPD.

#### KRAFT PAPER

ID: 65996-61-4

#: 56.0000 - 63.0000 GS: NoGS RC: PostC NANO: No ROLE: Core structural layer

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Post consumer content 8-14%

#### PHENOLIC RESIN

ID: 9003-35-4

#: 14.0000 - 19.0000 GS: LT-P1 RC: None NANO: No ROLE: Polymeric core sheet binder

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: Used to saturate kraft paper prior to pressing and curing operation.

#### MELAMINE RESIN

ID: 9003-08-1

#: 8.0000 - 12.0000 GS: LT-UNK RC: None NANO: No ROLE: Polymeric surface sheet binder

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Used to saturate decorative and protective surface sheets prior to pressing and curing operation.

#: 6.0000 - 11.0000      GS: NoGS      RC: None      NANO: No      ROLE: Decorative Surface Layer

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

SUBSTANCE NOTES: Used to impart design and protective surface to HPDL.

## 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.

### FORMALDEHYDE EMISSIONS      GreenGuard - Gold (previously Children & Schools)

CERTIFYING PARTY: Third Party      ISSUE DATE: 2007-04-30      EXPIRY DATE: 2018-10-28      CERTIFIER OR LAB: UL Environment-Greenguard  
 APPLICABLE FACILITIES: Evendale, Ohio and St. Jean, Canada  
 CERTIFICATE URL: <http://www.formica.com/en/us/landing-pages/sustainability-2017/sustainability17/emissions-and-greenguard>

CERTIFICATION AND COMPLIANCE NOTES: Certification is renewed on an annual basis. The renew cycle date is October 28th. Formica laminates have been evaluated under the GREENGUARD certification program since 2007 UL 2818-2013 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings. Building products and interior finishes are determined compliant in accordance with California Department of Public Health (CDPH) Standard Method V1.2-2007 using a Classroom Environment

### SUSTAINABLE FORESTRY      FSC Certification - Chain of Custody (COC)

CERTIFYING PARTY: Third Party      ISSUE DATE: 2015-06-04      EXPIRY DATE: 2020-06-04      CERTIFIER OR LAB: SCS  
 APPLICABLE FACILITIES: Evendale, Ohio and St. Jean, Canada  
 CERTIFICATE URL: <http://www.formica.com/en/us/landing-pages/sustainability-2017/sustainability17/fsc-certified-wood>

CERTIFICATION AND COMPLIANCE NOTES: FSC is an independent, non-government, not-for-profit organization established to promote responsible forest management practices worldwide. It was created out of concern for the loss of the world's forests and failure to address deforestation. FSC forest management certification is awarded to forest managers who adopt practices that provide environmental, social and economic benefits. FSC Principles and Criteria provide a foundation for all forest management standards globally.

### OTHER      NSF 35

CERTIFYING PARTY: Third Party      ISSUE DATE: 2007-01-      EXPIRY DATE: 2020-      CERTIFIER OR LAB: NSF

Canada

CERTIFICATE URL:

[http://info.nsf.org/Certified/Food/Listings.asp?](http://info.nsf.org/Certified/Food/Listings.asp?Company=17720&Standard=035)[Company=17720&Standard=035](http://info.nsf.org/Certified/Food/Listings.asp?Company=17720&Standard=035)

CERTIFICATION AND COMPLIANCE NOTES: The requirements of NSF/ANSI 35 are applicable to HPDL for use as work and nonwork surfaces of food service equipment on which direct contact during normal preparation or holding operations is not intended, expected, or reasonable. Applications of HPDL covered by this Standard include wait stations, service counters, and other counters used in conjunction with cutting boards or other means of preventing direct food contact with the laminate

## + 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.*

### FORMICA BRAND CONTACT ADHESIVES

HPD URL: <http://www.formica.com/en/us/products/adhesives>

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Contact Adhesives are used to bond HPDL to various substrates including Particleboard, Medium Density Fiberboard and Hardwood Faced Plywood.

### FORMICA IDEAL EDGE

HPD URL: <http://www.formica.com/en/us/products/idealedge-real>

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

.Eliminate the flat edges and brown seams traditionally associated with laminate surfaces with IdealEdge® Decorative Edging. Available in two stunning profiles, Ogee and Bullnose, IdealEdge® mimics the contemporary look often found on more expensive stones, granites and quartzes

## + Section 5: General Notes

Formica brand laminates have been evaluated under the GREENGUARD certification program since 2007 UL 2818-2013 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings. Building products and interior finishes are determined compliant in accordance with California Department of Public Health (CDPH) Standard Method V1.2-2007 using a Classroom Environment. A generic EPD is available at <http://www.formica.com/en/us/landing-pages/sustainability-2017/sustainability17/leed>.

## + Section 6: References

### MANUFACTURER INFORMATION

MANUFACTURER: **Formica**  
ADDRESS: **10155 Reading Road**  
**Cincinnati Ohio 45241, USA**

CONTACT NAME: **Dave Swenson**  
TITLE: **Sales Tech Services**  
PHONE: **513 786 3536**

**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**

<b>AQU</b> Aquatic toxicity	<b>GLO</b> Global warming	<b>PHY</b> Physical Hazard (reactive)
<b>CAN</b> Cancer	<b>MAM</b> Mammalian/systemic/organ toxicity	<b>REP</b> Reproductive toxicity
<b>DEV</b> Developmental toxicity	<b>MUL</b> Multiple hazards	<b>RES</b> Respiratory sensitization
<b>END</b> Endocrine activity	<b>NEU</b> Neurotoxicity	<b>SKI</b> Skin sensitization/irritation/corrosivity
<b>EYE</b> Eye irritation/corrosivity	<b>OZO</b> Ozone depletion	<b>LAN</b> Land Toxicity
<b>GEN</b> Gene mutation	<b>PBT</b> Persistent Bioaccumulative Toxic	<b>NF</b> Not found on Priority Hazard Lists

**GreenScreen (GS)**

<b>BM-4</b> Benchmark 4 (prefer-safer chemical)	<b>LT-P1</b> List Translator Possible Benchmark 1
<b>BM-3</b> Benchmark 3 (use but still opportunity for improvement)	<b>LT-1</b> List Translator Likely Benchmark 1
<b>BM-2</b> Benchmark 2 (use but search for safer substitutes)	<b>LT-UNK</b> List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
<b>BM-1</b> Benchmark 1 (avoid - chemical of high concern)	<b>NoGS</b> Unknown (no data on List Translator Lists)
<b>BM-U</b> Benchmark Unspecified (insufficient data to benchmark)	

**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.*