#### **High Pressure Laminate** by Formica

#### 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

#### **CONTENT INVENTORY**

#### Inventory Reporting Format

- C Nested Materials Method
- Basic Method

Threshold Disclosed Per

Section 2 for further details.

C Material

Product

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

| Residuals/Impurities |  |
|----------------------|--|
| Considered           |  |

C Partially Considered C Not Considered

Explanation(s) provided for Residuals/Impurities? • Yes C No

### **Basic Method / Product Threshold**

**Health Product** 

**Declaration v2.1** 

| Are All Substances Above the Thr                                   | eshold Indicated: |
|--|-------------------|
| Characterized<br>Percent Weight and Role Provided                  | Yes 🔿 No          |
| Screened<br>Using Priority Hazard Lists with<br>Results Disclosed? | Yes C No          |
| Identified<br>Name and Identifier Provided?                        | • Yes • No        |

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.

GREENSCREEN SCORE | HAZARD TYPE HIGH PRESSURE LAMINATE [ KRAFT PAPER NoGS PHENOLIC RESIN LT-

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY

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

P1 | RES MELAMINE RESIN LT-UNK UNDISCLOSED (DECORATIVE SURFACE LAYER) NoGS ]

#### **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

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

Third Party Verified?

C Yes No

PREPARER: Self-Prepared VERIFIER: VERIFICATION #:

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

#### **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: <b>No</b>      | ROLE: Core structural layer          |                      |
| HAZARDS:                     | AGENCY(IES) WITH W         | ARNINGS:              |                      |                                      |                      |
| None Found                   | No warnings fou            | nd on HPD Priority li | sts                  |                                      |                      |
| SUBSTANCE NOTES: Post consu  | mer content 8-14%          |                       |                      |                                      |                      |
|                              |                            |                       |                      |                                      |                      |
| PHENOLIC RESIN               |                            |                       |                      |                                      | ID: 9003-35-4        |
| %: 14.0000 - 19.0000         | GS: <b>LT-P1</b>           | RC: None              | NANO: <b>NO</b>      | ROLE: Polymeric core sheet binder    |                      |
| HAZARDS:                     | AGENCY(IES) WITH W         | ARNINGS:              |                      |                                      |                      |
| RESPIRATORY                  | AOEC - Asthmag             | gens                  | As                   | thmagen (Rs) - sensitizer-induced    |                      |
| SUBSTANCE NOTES: Used to sat | turate kraft paper prior t | o pressing and cur    | ing operation.       |                                      |                      |
| MELAMINE RESIN               |                            |                       |                      |                                      | ID: <b>9003-08-1</b> |
| %: 8.0000 - 12.0000          | GS: LT-UNK                 | RC: None              | NANO: <b>No</b>      | ROLE: Polymeric surface sheet binder |                      |
| HAZARDS:                     | AGENCY(IES) WITH W         | ARNINGS:              |                      |                                      |                      |
| None Found                   | No warnings fou            | nd on HPD Priority li | sts                  |                                      |                      |
| SUBSTANCE NOTES: Used to sat | turate decorative and pr   | otective surface sh   | neets prior to press | ing and curing operation.            |                      |

| 6.0000 - 11.0000            | GS: NoGS                      | RC: None              | NANO: <b>NO</b> | ROLE: Decorative Surface Layer |
|-----------------------------|-------------------------------|-----------------------|-----------------|--------------------------------|
| IAZARDS:                    | AGENCY(IES) WITH WARN         | INGS:                 |                 |                                |
| None Found                  | No warnings found o           | on HPD Priority lists |                 |                                |
| SUBSTANCE NOTES: Used to ir | mpart design and protective s | 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<br>APPLICABLE FACILITIES: Evendale, Ohio and St. Jean,<br>Canada                                       | ISSUE DATE: <b>2007-04-</b><br>30                 | EXPIRY DATE: 2018-<br>10-28 | CERTIFIER OR LAB: UL<br>Environment-Greenguard |  |
| CERTIFICATE URL:<br>http://www.formica.com/en/us/landing-<br>pages/sustainability-<br>2017/sustainability17/emissions-and-greenguard |   |                             |  |  |
| CEPTIFICATION AND COMPLIANCE NOTES. Cortification is   | renewed on an annu                                | al basis. The renew of      | velo dato is Octobor 28th                      |  |

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<br>APPLICABLE FACILITIES: Evendale, Ohio and St. Jean,<br>Canada                                 | ISSUE DATE:2015-06-<br>04                  | EXPIRY DATE: 2020-<br>06-04 | CERTIFIER OR LAB: SCS |  |
| certificate url:<br>http://www.formica.com/en/us/landing-<br>pages/sustainability-2017/sustainability17/fsc-<br>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

EXPIRY DATE: 2020-

 APPLICABLE FACILITIES: Evendale, Ohio and St. Jean,
 01
 01-01
 International

 Canada
 CERTIFICATE URL:

 http://info.nsf.org/Certified/Food/Listings.asp?

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

## **EXAMPLE :** Section 4: Accessories

Company=17720&Standard=035

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/idealedgereal

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/landingpages/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 |  |
|-------|------|--|
| GHS S | DS   |  |

Occupational Safety and Health Administration Material Safety Data Sheet Globally Harmonized System of Classi cation 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 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 (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 produc

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.

## Backing Sheets by Formica

## Health Product Declaration v2.1.1

created via: HPDC Online Builder

#### CLASSIFICATION: 06 05 00

**PRODUCT DESCRIPTION:** Backing sheets used to balance high pressure laminate panels. Since panels can warp due to uneven moisture on one face vs the other backers help to maintain panel equilibrium as ambient humidity changes.

## Section 1: Summary

#### **CONTENT INVENTORY**

#### **Inventory Reporting Format**

- C Nested Materials Method
- Basic Method

#### **Threshold Disclosed Per**

C 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? All Substances Above the Threshold Indicated Are:

**Basic Method / Product Threshold** 

 Characterized
 C Yes Ex/SC • Yes C No

 % weight and role provided for all substances.

Screened O Yes Ex/SC O Yes O No All substances screened using Priority Hazard Lists with results disclosed.

Identified O Yes Ex/SC O Yes O No

One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.

#### 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

BACKING SHEETS [ KRAFT PAPER NoGS PHENOL-FORMALDEHYDE RESIN (PRIMARY CASRN IS 9003-35-4) LT-P1 | RES ]

#### **VOLATILE ORGANIC COMPOUND (VOC) CONTENT**

VOC Content data is not applicable for this product category.

#### 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.

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

VOC emissions: UL/GreenGuard Gold Certified Sustainable forestry: FSC Certification - Chain of Custody (COC)

#### CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

C Yes

No

PREPARER: Self-Prepared VERIFIER: VERIFICATION #: SCREENING DATE: 2019-01-23 PUBLISHED DATE: 2019-01-23 EXPIRY DATE: 2022-01-23 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

#### **BACKING SHEETS**

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Since Backers are produced using phenol formaldehyde resins there is some off gassing after production. Resins have been optimized to produce the minimal amounts of formaldehyde gas. Backers are submitted to UL Environment Green guard program and the gas measured. Formica Backers have received the Green guard Gold certification and tested to less than 7.3 ppb.

OTHER PRODUCT NOTES:

| KRAFT PAPER  |                        |                                   |                 | ID: Not registered          |
|--|------------------------|-----------------------------------|-----------------|-----------------------------|
| HAZARD SCREENING METHOD: Pharos Chemical and Materials Library |                        | HAZARD SCREENING DATE: 2019-01-23 |                 |                             |
| %: <b>74.0000 - 76.0000</b>                                    | GS: NoGS               | RC: None                          | NANO: <b>NO</b> | ROLE: Core structural layer |
| HAZARD TYPE  | AGENCY AND LIST TITLES | WARN                              | INGS            |                             |
|  | No hazards found       |                                   |                 |                             |

SUBSTANCE NOTES: Sheets of Kraft paper are saturated with resin and pressed under high temperature and pressure to produce backers. These core structural layers are bonded due to resin cross flow and cross linking between sheets. Produced without the decor layer typical of HPL

| PHENOL-FORMALDEHYDE          | RESIN (PRIMARY CASRN IS 9003-35-4  | ID: <b>2180992-35-</b>                              |
|------------------------------|------------------------------------|---|
| HAZARD SCREENING METHOD: Pha | ros Chemical and Materials Library | HAZARD SCREENING DATE: 2019-01-23                   |
| %: 24.0000 - 26.0000         | GS: <b>LT-P1</b>                   | RC: None NANO: No ROLE: Polymeric core binder sheet |
| HAZARD TYPE                  | AGENCY AND LIST TITLES             | WARNINGS  |
| RESPIRATORY                  | AOEC - Asthmagens                  | Asthmagen (Rs) - sensitizer-induced                 |
|                              |                                    |   |

SUBSTANCE NOTES: Sheets of Kraft paper are saturated with resin and pressed under high temperature and pressure to produce backers. These core structural layers are bonded due to resin cross flow and cross linking between sheets. Produced without the decor layer typical of HPL 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  | UL/GreenGuard Gold Certified |                             |                                     |  |
|--|------------------------------|-----------------------------|-------------------------------------|--|
| CERTIFYING PARTY: Third Party<br>APPLICABLE FACILITIES: St. Jean, Canada and<br>Evendale, Ohio   | ISSUE DATE: 2007-<br>04-30   | EXPIRY DATE: 2019-<br>10-28 | CERTIFIER OR LAB: UL<br>Environment |  |
| certificate URL:<br>http://www.formica.com/en/us/landing-<br>pages/sustainability-<br>2017/sustainability17/emissions-and-<br>greenguard |                              |                             |                                     |  |

CERTIFICATION AND COMPLIANCE NOTES: Certification is renewed on an annual basis. The renewal date is October 28th. Formica backers have been evaluated under the Green Guard certification program since 2007 UL 2818-2103 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 (CDHP) Standard Method V12-2007 using a Classroom Environment.

| SUSTAINABLE FORESTRY  | FSC Certification - Chain of Custody (COC) |                             |                       |
|---|--|-----------------------------|-----------------------|
| CERTIFYING PARTY: Third Party<br>APPLICABLE FACILITIES: St. Jean Canada and<br>Evendale, Ohio<br>CERTIFICATE URL:<br>http://www.formica.com/en/us/landing-<br>pages/sustainability-2017/sustainability17/fsc-<br>certified-wood | ISSUE DATE: 2015-<br>06-04                 | EXPIRY DATE: 2020-<br>06-04 | CERTIFIER OR LAB: SCS |

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.

## 🕒 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/adhesives18

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

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

## 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.

#### MANUFACTURER INFORMATION

MANUFACTURER: Formica ADDRESS: 10155 reading rd cincinnati OHIO 45241, USA WEBSITE: http://www.formica.com/en/us/tradeproducts CONTACT NAME: Dave Swenson TITLE: Sales Tech Services PHONE: 513 786 3536 EMAIL: dave.swenson@formica.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

**GLO** Global warming

**MUL** Multiple hazards

**OZO** Ozone depletion

**NEU** Neurotoxicity

MAM Mammalian/systemic/organ toxicity

**PBT** Persistent Bioaccumulative Toxic

#### **Hazard Types**

AQU Aquatic toxicity CAN Cancer DEV Developmental toxicity END Endocrine activity EYE Eye irritation/corrosivity GEN Gene mutation

#### 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)

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

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.

#### Compact by Formica

#### CLASSIFICATION: 06 05 13

## Health Product Declaration v2.1

created via: HPDC Online Builder

PRODUCT DESCRIPTION: Versatile, practical and beautiful, Compact is a structural, two-sided laminate that provides endless creative possibilities for fixtures and furniture in commercial, institutional & hospitality settings that stand up to heat and humidity. It 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.

## 😑 Section 1: Summary

#### **CONTENT INVENTORY**

#### **Inventory Reporting Format**

- C Nested Materials Method
- Basic Method
   A

#### **Threshold Disclosed Per**

C Material

O Product

Threshold level © 100 ppm © 1,000 ppm © Per GHS SDS © Der OSMA MOD

Per OSHA MSDSOther

#### **Residuals/Impurities**

Considered
 Partially
 Considered
 Not Considered

Explanation(s) provided for Residuals/Impurities? Are All Substances Above the Threshold Indicated:

**Basic Method / Product Threshold** 

CharacterizedImage: Second second

Screened Using Priority Hazard Lists with Results Disclosed?

Identified C Yes C Name and Identifier Provided? 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

COMPACT [ KRAFT PAPER NoGS PHENOLIC RESIN LT-P1 | RES DECORATIVE SURFACE LAYER NOGS MELAMINE RESIN LT-UNK ]

#### **VOLATILE ORGANIC COMPOUND (VOC) CONTENT**

VOC Content data is not applicable for this product category.

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.

#### **CERTIFICATIONS AND COMPLIANCE** See Section 3 for

additional listings. Formaldehyde content: GreenGuard - Gold (previously Children & Schools) Sustainable forestry: FSC Certification - Chain of Custody (COC)

#### CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed

SCREENING DATE: 2018-03-15 PUBLISHED DATE: 2018-03-15 EXPIRY DATE: 2021-03-15

Verified?

Third Party

🖸 No

PREPARER: Self-Prepared VERIFIER: VERIFICATION #:

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

#### COMPACT

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 including Compact.

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 |
|------------------------------|---------------------|-------------------|-----------------|-------------------------------------|----------------|
| %: 66.0000 - 74.0000         | gs: <b>NoGS</b>     | RC: <b>PreC</b>   | NANO: <b>NO</b> | ROLE: Core structural laye          | r              |
| HAZARDS:                     | AGENCY(IES) WITH    | WARNINGS:         |                 |                                     |                |
| None Found                   | No warnings f       | ound on HPD Prio  | rity lists      |                                     |                |
| SUBSTANCE NOTES: Pre consum  | ner content 12%     |                   |                 |                                     |                |
|                              |                     |                   |                 |                                     |                |
| PHENOLIC RESIN               |                     |                   |                 |                                     | ID: 9003-35-4  |
| %: 22.0000 - 24.0000         | GS: <b>LT-P1</b>    | RC: None          | NANO: <b>NO</b> | ROLE: Polymeric core sheet bin      | der            |
| HAZARDS:                     | AGENCY(IES) WITH    | WARNINGS:         |                 |                                     |                |
| RESPIRATORY                  | AOEC - Asthm        | nagens            |                 | Asthmagen (Rs) - sensitizer-induced |                |
|                              |                     |                   |                 |                                     |                |
| SUBSTANCE NOTES: Used to sat | urate kraft paper p | prior to pressing | and curing oper | ration.                             |                |
|                              |                     |                   |                 |                                     |                |
| DECORATIVE SURFACE LA        | YER                 |                   |                 |                                     |                |

| %: 0.6000 - 6.3000 | gs: <b>NoGS</b>    | RC: None           | NANO: <b>NO</b> | ROLE: Decorative surface layer |
|--------------------|--------------------|--------------------|-----------------|--------------------------------|
| HAZARDS:           | AGENCY(IES) WITH W | /ARNINGS:          |                 |                                |
| None Found         | No warnings fo     | ound on HPD Priori | ty lists        |                                |
|                    |                    |                    |                 |                                |

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

#### **MELAMINE RESIN**

| %: 0.5000 - 5.0000   | GS: <b>LT-UNK</b>  | RC: None                                | NANO: <b>No</b> | ROLE: Polymeric surface binder sheet |  |
|--|--------------------|---|-----------------|--------------------------------------|--|
| HAZARDS:   | AGENCY(IES) WITH W | ARNINGS:                                |                 |                                      |  |
| None Found   | No warnings fo     | No warnings found on HPD Priority lists |                 |                                      |  |
| SUBSTANCE NOTES: Used to saturate decorative and protective surface sheets prior to pressing and curing operation. |                    |   |                 |                                      |  |

### 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 CONTENT  | GreenGuard - Go           | ld (previously Chi          | (previously Children & Schools)                |  |
|---|---------------------------|-----------------------------|--|--|
| CERTIFYING PARTY: Third Party<br>APPLICABLE FACILITIES: St. Jean Canada<br>CERTIFICATE URL:<br>http://www.formica.com/en/us/landing-<br>pages/sustainability-<br>2017/sustainability17/emissions-and-<br>greenguard | ISSUE DATE:2007-04-<br>30 | EXPIRY DATE: 2018-<br>10-28 | CERTIFIER OR LAB: UL<br>Environment 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<br>APPLICABLE FACILITIES: St Jean, Canada<br>CERTIFICATE URL:<br>http://www.formica.com/en/us/landing-<br>pages/sustainability-<br>2017/sustainability17/fsc-certified-wood | ISSUE DATE:2015-06-<br>04                  | EXPIRY DATE: 2020-06-04 | CERTIFIER OR LAB: SCS |

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.

#### 白 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 relateo products, refer to their applicable Health Product Declarations, if available.

#### **Z-CLIP OR FRENCH CLEAT FASTENERS**

HPD URL: No HPD available

condition when recommended or required and/or other notes: Necessary when used as an interior vertical panel

#### 💼 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 Rd Cincinnati Ohio 45241, USA WEBSITE: http://www.formica.com/en/us CONTACT NAME: Dave Swenson TITLE: Sales Tech Services PHONE: 513 786 3536 EMAIL: dave.swenson@formica.com

#### KEY

OSHA MSDSOccupational Safety and Health Administration Material Safety Data SheetGHS SDSGlobally Harmonized System of Classi cation 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 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 (insufficient information from List Translator lists to benchmark)
 NoGS Unknown (no data on List Translator Lists)

#### **Recycled Types**

Compact hpdrepository.hpd-collaborative.org 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.

## RECYCLED CONTENT ISO 14021-1999





Formica<sup>®</sup> brand decorative compact laminates manufactured in North America contain 12% post-consumer recycled wood fiber content as determined in accordance with ISO Standard 14021.

The certified product grades are Compact Laminates.

International Standard ISO 14021-1999, Environmental Labels and Declarations (Type II environmental labeling), specifies requirements for self-declared environmental claims, regarding products, including statements, symbols and graphics, regarding products. It further describes selected terms commonly used in environmental claims and gives qualifications for their use. It also describes a general evaluation and verification methodology for self-declared environmental claims and specific evaluation and verification methods for the selected claims. ISO 14021-1999 is a referenced standard for Recycled Content MR Credit 4 in LEED 2009 Reference Guide for Green Interior Design and Construction and Green Building Design and Construction, which incorporates guidance for new construction projects for three LEED rating systems: LEED 2009 for New Construction and Major Renovations, LEED 2009 for Schools and New Construction and Major Renovations and LEED 2009 for Core & Shell Development.

Recycled content can change over time due to new guidelines, operating conditions, suppliers and availability of raw materials. Please visit www.formica.com, which is the only authorized source for current technical information on Formica® brand products.

# **CERTIFICATE** OF COMPLIANCE



## **Formica Corporation**

Formica<sup>®</sup> Brand Laminate

1769-420 Certificate Number

04/30/2007 - 10/28/2021

Certificate Period

Certified

Status

UL 2818 - 2013 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings

Wall finishes are determined compliant in accordance with California Department of Public Health (CDPH) Standard Method V1.2-2017 using a Classroom Environment with an air change of 0.82 hr<sup>-1</sup> and a loading of 94.60 m<sup>2</sup>.

Product tested in accordance with UL 2821 test method to show compliance to emission limits on UL 2818. Section 7.1 and 7.2.



| Criteria   | CAS Number | Maximum Allowable<br>Predicted Concentration | Units |
|--|------------|--|-------|
| TVOC (A)   | -          | 0.22   | mg/m³ |
| Formaldehyde   | 50-00-0    | 9 (7.3 ppb)                                  | µg/m³ |
| Total Aldehydes (B)                                  | -          | 0.043  | ppm   |
| 4-Phenylcyclohexene                                  | 4994-16-5  | 6.5  | µg/m³ |
| Particle Matter less than 10 $\mu m$ $_{\text{(C)}}$ | -          | 20   | µg/m³ |
| 1-Methyl-2-pyrrolidinone (D)                         | 872-50-4   | 160  | µg/m³ |
| Individual VOCs (E)                                  | -          | 1/2 CREL<br>or<br>1/100th TLV                | -     |

#### **GREENGUARD** Gold Certification Criteria for Building Products and Interior Finishes

(A) Defined to be the total response of measured VOCs falling within the C6 – C16 range, with responses calibrated to a toluene surrogate. Maximum allowable predicted TVOC concentrations for GREENGUARD Gold (0.22 mg/m<sup>3</sup>) fall in the range of 0.5 mg/m<sup>3</sup> or less, as specified in CDPH Standard Method v1.2.

(B) The sum of all measured normal aldehydes from formaldehyde through nonanal, plus benzaldehyde, individually calibrated to a compound specific standard. Heptanal through nonanal are measured via TD/GC/MS analysis and the remaining aldehydes are measured using HPLC/UV analysis.

<sup>(C)</sup> Particle emission requirement only applicable to HVAC Duct Products with exposed surface area in air streams (a forced air test with specific test method) and for wood finishing (sanding) systems.

<sup>(D)</sup> Based on the CA Prop 65 Maximum Allowable Dose Level for inhalation of 3,200 µg/day and an inhalation rate of 20 m<sup>3</sup>/day

(E) Allowable levels for chemicals not listed are derived from the lower of 1/2 the California Office of Environmental Health Hazard Assessment (OEHHA) Chronic Reference Exposure Level (CREL) as required per the CDPH/EHLB/Standard Method v1.2 and BIFMA level credit 7.6.2 and 1/100th of the Threshold Limit Value (TLV) industrial work place standard (Reference: American Conference of Government Industrial Hygienists, 6500 Glenway, Building D-7, and Cincinnati, OH 45211-4438).



# **CERTIFICATE** OF COMPLIANCE



PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS UL.COM/GG UL 2818

## **Formica Corporation**

Formica<sup>®</sup> Brand Laminate

1769-410

Certificate Number

10/28/2004 - 10/28/2021

**Certificate Period** 

Certified

Status

UL 2818 - 2013 Standard for Chemical Emissions for Building Materials, Finishes and Furnishings

Wall finishes are determined compliant using an Office Environment with an air change of 0.68 hr<sup>-1</sup> and a loading of 33.40 m<sup>2</sup>.

Products tested in accordance with UL 2821 test method to show compliance to emission limits in UL 2818, Section 7.1.



#### **GREENGUARD** Certification Criteria for Building Products and Interior Finishes

| Criteria   | CAS Number | Maximum Allowable<br>Predicted Concentration | Units |
|--|------------|--|-------|
| TVOC(A)  | -          | 0.50   | mg/m³ |
| Formaldehyde   | 50-00-0    | 61.3 (50 ppb)                                | µg/m³ |
| Total Aldehydes (B)                                  | -          | 0.10   | ppm   |
| Particle Matter less than 10 $\mu m$ $_{\text{(C)}}$ | -          | 50   | µg/m³ |
| 4-Phenylcyclohexene                                  | 4994-16-5  | 6.5  | µg/m³ |
| Individual VOCs (D)                                  | -          | 1/10th TLV                                   | -     |

(A) Defined to be the total response of measured VOCs falling within the C<sub>6</sub> – C<sub>16</sub> range, with responses calibrated to a toluene surrogate. Maximum allowable predicted TVOC concentrations for GREENGUARD (0.50 mg/m<sup>3</sup>) fall in the range of 0.5 mg/m<sup>3</sup> or less, as specified in CDPH Standard Method v1.2.

- (B) The sum of all measured normal aldehydes from formaldehyde through nonanal, plus benzaldehyde, individually calibrated to a compound specific standard. Heptanal through nonanal are measured via TD/GC/MS analysis and the remaining aldehydes are measured using HPLC/UV analysis.
- <sup>(C)</sup> Particle emission requirement only applicable to HVAC Duct Products with exposed surface area in air streams (a forced air test with specific test method) and for wood finishing (sanding) systems.
- (D) Allowable levels for chemicals not listed are derived from 1/10th of the Threshold Limit Value (TLV) industrial work place standard (Reference: American Conference of Government Industrial Hygienists, 6500 Glenway, Building D-7, and Cincinnati, OH 45211-4438).



**SCS Global Services** does hereby certify that an independent audit has been completed and conformity to the applicable standard(s) has been confirmed for:

## **Formica Corporation**

10155 Reading Road, Cincinnati, OH 45241, United States Please see addendum for additional certified locations.

This multi-site certificate covers the production and distribution of high pressure decorative laminates, metalized paperboard laminates, and specialty paper using the transfer, percentage, and credit systems. The certificate also covers the purchase and sale of FSC Controlled Wood.

The facility(s) are hereby Chain of Custody certified to sell products as:

## **FSC Mix, FSC Controlled Wood**

The assessment has been conducted by SCS Global Services in accordance with the protocols of the Forest Stewardship Council® A.C. (FSC®).

FSC Standard: FSC-STD-40-003; FSC-STD-40-004; FSC-STD-50-001

### Certificate Code: SCS-COC-003270 Trademark License Code: FSC-C092610 CW Code: SCS-CW-003270 Valid from: 4 June 2015 Expiry date: 3 June 2021

This certificate itself does not constitute evidence that a particular product supplied by the certificate holder is FSC-certified (or FSC Controlled Wood where applicable). Products offered, shipped or sold by the certificate holder can only be considered covered by the scope of this certificate when the required FSC claim is clearly stated on sales and delivery documents. The scope of this certificate is considered accurate on the date of issuance. The current validity and scope, including the full list of products, shall be verified on http://info.fsc.org. The certificate shall remain the property of SCS, and this certificate and all copies or reproductions of this certificate shall be returned to SCS immediately upon request. Where a certificate one site, the covered products and processes/ activities are performed by the network of Participating Sites, and not necessarily by each of them.



The mark of responsible forestry



Maggie Schwartz, Director, Chain of Custody SCS Global Services 2000 Powell Street, Ste. 600, Emeryville, CA 94608 USA



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