Intentek™ Wireless Charging Surfaces by Formica

Health Product Declaration v2.2

created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: 21259
CLASSIFICATION: 06 06 00 Schedules for Wood, Plastics, and Composites
PRODUCT DESCRIPTION: High pressure decorative laminates including Intentek™ Wireless Charging Surfaces in Grade TK 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 Group integrates coils required for wireless charging into the laminate with a patented method that creates an uninterrupted surface with all the features and benefits of Formica® Brand Laminate. Formica Intentek™ Wireless Charging Surfaces can be fabricated as an applied surface to countertops and table tops.

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
- ○ Other

Residuals/Impurities
- ◉ Considered
- ○ Partially Considered
- ○ Not Considered

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

All Substances Above the Threshold Indicated Are:

Characterized ○ Yes Ex/SC ◉ Yes ○ No
% weight and role provided for all substances.

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

Identified ○ Yes Ex/SC ○ Yes ◉ 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

INTENTEK™ WIRELESS CHARGING SURFACES [KRAFT PAPER NoGS
PHENOL-FORMALDEHYDE RESIN (PRIMARY CASRN IS 9003-35-4) LT-P1 |
RES MELAMINE/FORMALDEHYDE RESIN (PRIMARY CASRN IS 9003-08-1)
LT-UNK CELLULOSE, MICROCRYSTALLINE LT-UNK | RES ANATASE
(TIO2) (PRIMARY CASRN IS 1317-70-0) LT-1 | CAN SILVER BM-1 | MUL |
END]

Number of Greenscreen BM-4/BM3 contents ... 0

Contents highest concern GreenScreen Benchmark or List translator Score ... BM-1

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.*

VOC emissions: GreenGuard - Gold (previously Children & Schools)
Sustainable forestry: FSC Certification - Chain of Custody (COC)

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: 2020-08-04
PUBLISHED DATE: 2020-08-04
EXPIRY DATE: 2023-08-04

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 2.2, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-2-standard

INTENTEK™ WIRELESS CHARGING SURFACES

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

OTHER PRODUCT NOTES: Formica Intentek™ Wireless Charging Surfaces 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. Conductive coils made of silver coatings are printed and pressed to incorporate charging stations.

KRAFT PAPER

ID: Not registered

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-08-04

%: 50.0000 - 54.0000 GS: NoGS RC: None NANO: No SUBSTANCE ROLE: Structure component

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Kraft paper typical of standard grade Formica HPL

PHENOL-FORMALDEHYDE RESIN (PRIMARY CASRN IS 9003-35-4)

ID: 2180992-35-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-08-04

%: 32.0000 - 36.0000 GS: LT-P1 RC: None NANO: No SUBSTANCE ROLE: Binder

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced

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

MELAMINE/FORMALDEHYDE RESIN (PRIMARY CASRN IS 9003-08-1)

ID: 95507-76-9

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-08-04

%: **8.0000 - 12.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Binder**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

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

CELLULOSE, MICROCRYSTALLINE

ID: **9004-34-6**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-08-04**

%: **1.0000 - 3.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Structure component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: Used to impart design and protective surface.

ANATASE (TIO2) (PRIMARY CASRN IS 1317-70-0)

ID: **12036-20-3**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-08-04**

%: **0.3000 - 0.6000** GS: **LT-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Pigment**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

SUBSTANCE NOTES: To provide opacity to preserve color integrity of decorative layer

SILVER

ID: **7440-22-4**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-08-04**

%: **0.1000 - 0.5000** GS: **BM-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Surface modifier**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: SIlver coating is applied to layers of kraft to enable chargeable surface

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 — **GreenGuard - Gold (previously Children & Schools)**

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: Evendale, Ohio
CERTIFICATE URL: https://www.formica.com/en-us/campaigns/sustainability

ISSUE DATE: 2007-04-30

EXPIRY DATE:

CERTIFIER OR LAB: UL Environment

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
APPLICABLE FACILITIES: Evendale, Ohio
CERTIFICATE URL: https://www.formica.com/en-us/campaigns/sustainability

ISSUE DATE: 2015-06-04

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.

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 ADHESIVES

HPD URL: **https://www.formica.com/en-us/campaigns/adhesives**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:
Adhesives including Contact and PVA (polyvinyl acetate) are used to bond Chemtop HPDL to various substrates including Particleboard, Medium Density Fiberboard and Hardwood Faced Plywood.

Section 5: General Notes

Formica Group integrates coils required for wireless charging into the laminate with a patented method that creates an uninterrupted surface with all the features and benefits of Formica® Brand Laminate.

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: **Formica**
ADDRESS: **10155 Reading Rd.**
Cincinnati Ohio 45241, USA
WEBSITE: **https://www.formica.com/en-us**

CONTACT NAME: **Dave Swenson**
TITLE: **Sales Tech Services**
PHONE: **513 786 3536**
EMAIL: **dave.swenson@formica.com**

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

Hazard Types

AQU Aquatic toxicity
CAN Cancer
DEV Developmental toxicity
END Endocrine activity
EYE Eye irritation/corrosivity
GEN Gene mutation
GLO Global warming
LAN Land toxicity
MAM Mammalian/systemic/organ toxicity
MUL Multiple
NEU Neurotoxicity
NF Not found on Priority Hazard Lists
OZO Ozone depletion
PBT Persistent, bioaccumulative, and toxic
PHY Physical hazard (flammable or reactive)
REP Reproductive
RES Respiratory sensitization
SKI Skin sensitization/irritation/corrosivity
UNK Unknown

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 (due to insufficient data)
LT-P1 List Translator Possible 1 (Possible Benchmark-1)
LT-1 List Translator 1 (Likely Benchmark-1)
LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.)
NoGS No GreenScreen.

Recycled Types

PreC Pre-consumer recycled content
PostC Post-consumer recycled content
UNK Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms:

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

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.