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FORMICA® LAMINATE BY FORMICA GROUP

MATERIAL SAFETY DATA SHEET



SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER

Formica Corporation
10155 Reading Road
Cincinnati OH 45241, USA

COMPANY PHONE NUMBER

1-800-FORMICA™

MANUFACTURER'S EMERGENCY PHONE NUMBER

USA (Chemtrec) 1-800-424-9300

Internationally 1-703-527-3887

PRODUCT NAME

Formica® Brand Laminates

Issue Date

November 17, 2012

Product Codes

DecoMetal, BasicMetal, ColorCore2, Compact,
ColorThru Compact, Access Floor Tiles, Chemtop2, Fire-rated
and High Pressure Laminate

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

No known hazards for material as supplied. During fabrication operations such as sawing, sanding, drilling, routing, cutting, etc. dust consisting of cured resin, paper fiber and minute amounts of formaldehyde are generated at the point of operation. Formaldehyde may be released in minute but detectable amounts when material is shipped or stored in bulk quantities.

Appearance/Odor: Thin to thick, rigid laminate sheets, various thicknesses/colors. No significant odor.

WARNING

SANDING, SAWING, DRILLING, ROUTING, ETC. OF THIS MATERIAL MAY GENERATE AIRBORNE NUISANCE DUST. THIS DUST MAY CAUSE EYE, NOSE, SKIN, AND UPPER RESPIRATORY TRACT IRRITATION. USE OF APPROPRIATE PERSONAL PROTECTION AND/OR ENGINEERING CONTROLS (SUCH AS LOCAL EXHAUST VENTILATION) SHOULD BE EMPLOYED WHENEVER SANDING, SAWING, DRILLING, ROUTING, ETC. THIS MATERIAL.

Potential Health effects: Dust generated during fabrication of this material may cause irritation of the eyes, nose skin and upper respiratory tract. Asthmatic conditions maybe aggravated by the dust generated.

Likely Routes of Exposure: Eye contact, skin contact and inhalation

Eyes: Dust generated during installation or fabricating could cause eye irritation (tears, blurred vision and redness). In case of eye contact with dusts, rinse affected eye for at least 15 minutes with clean water. If irritation persists, seek medical attention.

Skin: The dust generated during installation or fabrication may cause moderate skin irritation. Avoid prolonged skin exposure to dust. Rinse skin with mild soap if contact occurs. If irritation persists, seek medical attention.

Ingestion: Not likely to occur and not expected to cause a significant toxic response. However, ingestion of dust could cause irritation of the mouth, throat and stomach. If this occurs, rinse mouth with clean water. If irritation persists, seek medical attention.

Inhalation: Sanding, sawing, drilling, routing or cutting of this material may generate airborne dust that may cause eye, nose and upper respiratory tract irritation. Use appropriate personal protection and/or engineering controls (such as local exhaust ventilation whenever sanding, routing, sawing, drilling, cutting, etc. on this material.

Medical Conditions Aggravated by Exposure: Dust may cause skin irritation for people with pre-existing skin conditions. Asthmatic conditions may be aggravated by additional dust exposure.

Target Organs: Lungs (from dust generated during fabrication only).

SECTION 3: COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

This product does not contain regulated levels of NTP, IARC, or OSHA listed carcinogens.

COMPONENT	CAS #	% BY WT.
Paper/Fiber	NA	40-70
Resins	NA	30-50

SECTION 4: FIRST AID MEASURES

Eye contact: If dust gets into the eyes, immediately rinse affected eye for at least 15 minutes with clean water. If irritation persists, seek medical attention.

Skin contact: If excess dust gets onto the skin, remove contaminated clothing and wash before reuse. Wash skin with soap and water. Seek medical attention if irritation occurs.

Ingestion: If dust gets into mouth, rinse mouth with clean water. Seek medical attention if necessary.

Inhalation: If excess dust is inhaled, move to fresh air. Seek medical attention if symptoms such as wheezing and/or shortness of breath occur.

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SECTION 5: FIRE FIGHTING MEASURES

This material is a Class A combustible material. Use water spray, carbon dioxide or dry chemical foam to extinguish flames. Use water to keep cool and prevent rekindling of material.

Unusual Fire or Explosion Hazards: Sanding, sawing, drilling, routing, cutting, etc. of this material may generate a Class ST-1 dust. Safety precautions and proper ventilation as recommended by NFPA-68 for Class ST-1 dusts should be followed to prevent this or any Class ST-1 dust from presenting a explosion hazard.

Suitable Extinguishing Media: CO₂, water, foam.

Possible Products of Combustion: Various oxides of carbon and nitrogen, ammonia and formaldehyde.

Protection of Firefighters: Combustion products may be irritating to eyes, skin and the respiratory tract. Firefighters should wear self-contained breathing apparatus and full fire-fighting turnout gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Material is non-hazardous as supplied. Review personal protection measures in Section 8.

Methods for Clean-up: Recover undamaged materials for reuse or reclamation. Sweep or pick up scrap material and place in disposal containers.

SECTION 7: HANDLING AND STORAGE

Handling: Prevent dust from entering eyes. Do not breathe dust. Avoid prolong skin contact with dust and/or filings. Cut, drill, saw, sand, finish, etc. in well-ventilated areas.

Storage: Keep away from strong chemicals, solvents and excessive heat. Prolonged or extreme heat can cause damage to the surface.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA PEL	ACGIH TLV
15mg/m ³ Total Dust	10mg/m ³ Inhalable
5mg/m ³ Respirable Dust	3 mg/m ³ Respirable

Engineering Controls: Provide adequate ventilation to maintain exposure levels below applicable limits. The use of local exhaust ventilation is recommended during fabrication work. Dust generated is a Class ST-1 dust and precautions recommended by NFPA-68 should be followed.

Eye/Face Protection: Wear safety glasses when sawing, sanding, drilling or routing.

Skin Protection: Wear appropriate gloves when installing, transporting, sawing, cutting, drilling, routing or handling uninstalled pieces.

Foot Protection: No special protection required.

Respiratory Protection: Where airborne concentrations of dust are expected to exceed the allowable exposures, a NIOSH-approved respirator should be worn, chosen based on the form and concentration of the contaminant. Respirator usage must be in accordance with the OSHA Respiratory Protection Standard, 29 CFR 1910.134.

General Hygiene Considerations: Wash thoroughly after sawing, cutting, drilling, or routing. Have eyewash facilities immediately available.

Additional information is available in ASTM E1132-99a.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

COLOR	Various
ODOR	None
PHYSICAL STATE	Solid sheet product
PH	Not applicable
FREEZING POINT	Not applicable
BOILING POINT	Not applicable
FLASH POINT	Not applicable
EVAPORATION RATE	Not applicable
FLAMMABILITY	Not applicable
UPPER FLAMMABILITY LIMIT	Not applicable
LOWER FLAMMABILITY LIMIT	Not applicable
VAPOR PRESSURE	Not applicable
VAPOR DENSITY	Not applicable
SPECIFIC GRAVITY	1.45
SOLUBILITY (WATER)	Not applicable
AUTO-IGNITION TEMPERATURE	Not applicable
PERCENT VOLATILE, WT. %	Zero
VOLATILE ORGANIC COMPOUND (VOC) CONTENT, WT. %	Zero. Product as supplied is fully cured and chemically inert, VOC release is extremely low.

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: Avoid exposing to oxidizers, strong chemicals, alkaline solutions and solvents.

Incompatible Materials: Avoid strong acids and alkaline solutions which will damage the surface appearance of the material. If spills occur, remove immediately from the material.

Hazardous Decomposition Products: Thermal decomposition product may include various oxides of carbon and nitrogen may be released.

Hazardous Polymerization: Will not occur.

FORMICA® LAMINATE BY FORMICA GROUP

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SECTION 11: TOXICOLOGY INFORMATION

ACUTE EFFECTS

Oral LD50: Not known

Dermal LD50: Not known

Inhalation: See Section 2

Eye Irritation: See Section 2

Skin Irritation: See Section 2

Sensitization: No data for product

CHRONIC EFFECTS

Carcinogenicity: This product may contain trace amounts of formaldehyde which is listed by IARC as carcinogenic. The ACGIH lists formaldehyde as a suspect human carcinogen. NTP lists formaldehyde as carcinogenic. **WARNING** Substance contained in this product known to the State of California to cause cancer, birth defects or other reproductive harm – formaldehyde.

Mutagenicity: No data for product

Reproductive Effects: No data for product

Developmental Effects: No data for product

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: No data for product

Persistence/Degradability: No data for product

Bioaccumulation/Accumulation: No data for product

Mobility in Environment: No data for product

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal: Material is non-hazardous and no special treatment is required for disposal. Disposal in landfill must be in accordance with federal, state and local regulations.

SECTION 14: TRANSPORTATION INFORMATION

DOT: Not Regulated

SECTION 15: REGULATORY INFORMATION

WARNING SUBSTANCE CONTAINED IN THIS PRODUCT KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM – FORMALDEHYDE.

SECTION 16: OTHER INFORMATION

NFPA Labeling

Health – 1 Fire – 0 Reactivity – 0

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard,
3 = severe hazard, 4 = extreme hazard

ACRONYMS

ACGIH = American Conference of Governmental Industrial Hygienists

ASTM = American Society for Testing and Materials

DOT = Department of Transportation

IARC = International Agency for Research on Cancer

NFPA = National Fire Protection Agency

NIOSH = National Institute of Occupational Safety and Health

NTP = National Toxicology Program

OSHA = Occupational Safety and Health Administration

PEL = Permissible Exposure Limit

TLV = Threshold Limit Value

TSCA = Toxic Substance Control Act

TWA = Time Weighted Average

Mg/m³ = Milligrams per Cubic Meter of Air

Prepared by: Formica Corporation, John Faged, REM

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for his own particular use.

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For warranty information, please visit www.formica.com or call 1-800-FORMICA™.



GreenGuard Environmental Institute

Formica® high-pressure laminate (HPL) is GreenGuard Indoor Air Quality Certified under the GreenGuard Standard for Low-Emitting Products.

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Laminate Care and Maintenance

The decorative surface may be cleaned with warm water and mild soaps, such as those used for hands or dishes. Do not use cleansers that contain abrasives, acids or alkalis; they will damage the decorative surface. Remove stubborn stains with a 2-minute exposure to hypochlorite bleach such as Clorox, followed by a clean water rinse.

We recommend that you not allow any of the follow agents to remain in contact with the decorative surface:

1. Hypochlorite bleach, except as described above
2. Hydrogen peroxide solution
3. Mineral acids, hydrochloric acid such as Lime-A-Way, sulfuric or nitric acid
4. Caustic solutions containing greater than 2% lye, such as Drano
5. Sodium bisulfate, such as Sani-Flush
6. Potassium permanganate
7. Berry juices
8. Silver nitrate, in 1% concentration or greater
9. Gentian violet
10. Mild silver protein, such as 20% argyrols
11. Bluing
12. Fabric dye, such as Tintex or Rit
13. Alcohol containing 1% iodine in solution

Free copies of the "Care and Maintenance Guide", are available at www.wilsonartlaminate.com or by calling 800-433-3222.

MSDS Material Safety Data Sheet

Wilsonart International



Wilsonart High Pressure Decorative Laminate

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MSDS Number: 16439

Revision Date: 09/20/04

1 PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME WILSONART® Laminate
(All Grades and Thicknesses)

MANUFACTURER WILSONART INTERNATIONAL, INC.
P.O. BOX 6110 - 2400 WILSON PLACE
TEMPLE, TX 76503
INFORMATION PHONE: 800-433-3222 (USA)

SYNONYMS High Pressure Decorative Laminate (HPDL)
(All Grades and Thicknesses including High
Pressure Backers)

MATERIAL USES Decorative Laminate

Revision # 12

IN CASE OF EMERGENCY CONTACT

CHEMTREC: 800-424-9300 (USA)
703-527-3887 (INTERNATIONAL)

2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS#	% by weight
Paper Fiber	N/A	25 - 85
Formaldehyde Resins	N/A	10 - 50

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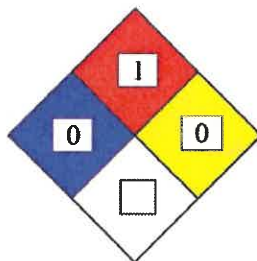
3 HAZARDS IDENTIFICATION

- Route of Entry:** None for product as sold. For dust or chips generated during fabrication operations : eye contact, skin contact, and inhalation
- Target Organs:** None.
- Inhalation:** No hazard for product as sold. Fabrication operations such as milling, cutting, grinding, etc., may produce dust or chips that may be irritating or harmful if inhaled. See Section 8. Repeated and prolonged inhalation of dust may lead to chronic respiratory irritation. Asthmatic conditions may be aggravated by uncontrolled airborne dust exposures.
- Skin Contact:** Solid sheet may be abrasive to, or cut skin. Fabrication operations such as milling, cutting, grinding, etc., may produce dust or chips that may be irritating.
- Eye Contact:** Dust generated from fabrication operations such as milling, cutting, grinding, etc., may produce dust or chips that may be irritating.
- Ingestion:** Not an expected route of entry with normal use of product.

HMIS (United States):

HEALTH	0
FLAMMABILITY	1
REACTIVITY	0
PPE	B

NFPA (United States):



WHMIS (Canada): Not classified as hazardous.

4 FIRST AID MEASURES

- Inhalation:** No hazard for product as sold. Fabrication operations such as milling, cutting, grinding, etc., may produce dust or chips that may be irritating or harmful if inhaled. See Section 8.
- Skin Contact:** Solid sheet may be abrasive to, or cut skin. Fabrication operations such as milling, cutting, grinding, etc., may produce dust or chips that may be irritating. Wash with soap and water. If irritation persists seek medical attention.
- Eye Contact:** No hazards for product as sold. Fabrication operations such as milling, cutting, grinding, etc., may produce dust or chips that may be irritating. For dust or fines, rinse eyes with water. If irritation persists seek medical attention
- Ingestion:** Not an expected route of entry with normal use of product.

5 FIRE FIGHTING MEASURES

- Flash Point:** Not Applicable.
- Flash Point Method:** Not Applicable.
- Burning Rate:** Not Applicable.
- Autoignition Temperature:** Not Applicable.

Use extinguishing media appropriate for surrounding fire. Wear fire protection equipment appropriate for the surrounding fire.

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Hazardous decomposition products include carbon oxides (CO and CO₂).

Product as sold does not present an explosion hazard. Finely divided dust generated by fabrication operations such as milling, cutting, grinding, etc., can create an explosion hazard if the airborne dust concentration exceeds 900 grams per cubic meter and it contacts an ignitions source greater than 8 joules (A person standing in a uniformly dispersed dust cloud of 50 grams per cubic meter will not be able to see his/her outstretched hand).

6 ACCIDENTAL RELEASE MEASURES

Small spill or leak - Not applicable.

Large spill or leak - Not applicable.

7 HANDLING AND STORAGE

Handling Precautions: No specific usage precautions required. Follow normal good hygiene practices. Protect exposed areas from cuts and abrasions

Storage Requirements: Store in a dry, well ventilated area. Trace amounts of formaldehyde may be released during shipping and storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: No special ventilation requirements for product as sold. Provide adequate ventilation to meet exposure guideline if fabrication operations generate dust or chips.

Protective Equipment: No specific recommendation made, but use of an approved/certified respirator with the appropriate particulate dust filter must be used if ventilation is inadequate. Gloves suitable for protection against cuts and abrasions from sharp edges are recommended.

Wear safety goggles during fabrication operations that produce chips or dust.

Exposure Guidelines/Other:

<u>Product Name</u>	<u>Exposure Limits</u>
Wood dust*	OSHA PEL: 5 mg/m ³ respirable; 15 mg/m ³ Total

*Not applicable to product as sold, but dust may be produced during fabrication processes.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Solid decorative sheet.

Physical State: Solid

Odor: Odorless

pH: Not Applicable.

Vapor Pressure: Not Applicable

Vapor Density: Not Applicable.

Boiling Point: Not Applicable.

Freezing/Melting Pt.: Not Applicable.

Solubility: Not Soluble.

Spec Grav./Density: Not Available.

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10 STABILITY AND REACTIVITY

Stability: This product is stable.
Conditions to avoid: None.
Materials to avoid (incompatibility): None.
Hazardous Decomposition products: Carbon oxides (CO and CO₂).
Hazardous Polymerization: Will not polymerize.

11 TOXICOLOGICAL INFORMATION

No testing has been done on the toxicity of this product to animals. This product is not expected to be toxic to animals.
Not testing has been done on the toxicity of this product to humans. This product is not expected to be toxic to humans.

12 ECOLOGICAL INFORMATION

Ecotoxicity - Not available. Not expected to be ecotoxic.
BOD₅ and COD - Not available.
Mobility - Not available.
Toxicity of the Products of Biodegradation - Not available.

13 DISPOSAL CONSIDERATIONS

Dispose of according to Federal, State, and local regulations.

14 TRANSPORT INFORMATION

Not a DOT controlled material (United States).
Not expected to be a marine pollutant.
Not controlled under ADR (Europe).
Not controlled under IMDG.
Not controlled under IATA.

15 REGULATORY INFORMATION

U.S. Federal Regulations

TSCA inventory - the ingredients of this product are listed.
SARA 302/304/311/312 extremely hazardous substances - None.
SARA 302/304 emergency planning and notification: None.
SARA 302/304/311/312 hazardous chemicals: None.
SARA 311/312 MSDS distribution-chemical inventory-hazard identification : None.
CWA 307: None.
CWA 311: None.
CAA 112 accidental release prevention: None.
CAA 112 regulated flammable substances: None.
CAA 112 regulated toxic substances: None.

International Regulations

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WHIMS (Canada): Not classified as hazardous.
DSL (Canada) - None
EINECS: None

State Regulations

California Prop. 65: This product contains the following ingredients known to the state of California to cause cancer: Formaldehyde (50-00-0) in trace amounts.

16

OTHER INFORMATION

References

Lewis, R. J., Rapid Guide to Hazardous Chemicals in the Workplace, 4th ed., Wiley-Interscience, New York, 2000.
NIOSH Pocket Guide to Chemical Hazards, Department of Health and Human Services, National Institute for Occupational Safety and Health, 2004.
TLVs and BEIs, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Agents, ACGI Worldwide, Cincinnati, 2003.

Glossary

ACGIH - American Conference of Governmental Industrial Hygienists
ASTM - American Society for Testing and Materials
ADR - Agreement on Dangerous Goods by Road (Europe)
BOD5 - Biological Oxygen Demand in 5 days
CAA - Clean Air Act
CAS - Chemical Abstracts Services
CEPA - Canadian Environmental Protection Act
CERCLA - Comprehensive Environmental Response, Compensations and Liability Act
CFR - Code of Federal Regulations
CWA - Clean water act
DOT - Department of Transportation
DSCL - Dangerous Substances Classification and Labeling (Europe)
DSL - Domestic Substance List (Canada)
EEC/EU - European Economic Community/European Union
EINECS - European Inventory of Existing Commercial Chemical Substances
HCS - Hazard Communication System
HMIS - Hazardous Material Information System
IARC - International Agency for Research on Cancer
LD50/LC50 - Lethal Dose/Concentration kill 50%
LDLo/LCLo - Lowest Published Lethal Dose/Concentration
NFPA - National Fire Prevention Association
NIOSH - National Institute for Occupational Safety & Health
NTP - National Toxicology Program
OSHA - Occupational Safety & Health Administration
PEL - Permissible Exposure Limit
RCRA - Resource Conservation and Recovery Act
SARA - Superfund Amendments and Reorganization Act
STEL - Short Term Exposure Limit (15 minutes)
TDG - Transportation of Dangerous Goods (Canada)
TLV-TWA - Threshold Limit Value-Time Weighted Average
TSCA - Toxic Substances Control Act
WHMIS - Workplace Hazardous Material Information System

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CHEMTREC:
800-424-9300 (USA)
703-527-3887 (International)

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named manufacturer nor any of its subsidiaries assumes any liability whatsoever for accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

END OF MSDS DOCUMENT