

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 (Chemtec) 1-800-424-9300
Internationally 1-703-527-3887

PRODUCT NAME

Formica® Brand Laminates

Issue Date

June 29, 2009

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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MATERIAL SAFETY DATA SHEET CONTINUED



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 an 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 prolonged 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.

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MATERIAL SAFETY DATA SHEET CONTINUED



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 Foged REM

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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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