

MATERIAL SAFETY DATA SHEET

CORPORATION
UF BONDED WOOD PRODUCTS
MATERIAL SAFETY DATA SHEET #2
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Effective Date: 05/10/2004
Supersedes Date: New

*** Section 1 – Chemical Product and Company Identification ***

Product Names:

UREA-FORMALDEHYDE BONDED WOOD PRODUCTS

Hardwood Plywood – Domestic/Import, Overlay, Varying Cores
High Pressure Laminate

Medium Density Fiberboard (MDF) – Paneling, Overlay

Particleboard (PB) – Door Core, Industrial, Mobile Home Decking, Overlay, Underlayment
Plywood Paneling

Product Use:

Wood particles and fibers bonded together with UF resin and used in both commercial and industrial settings.

DISTRIBUTOR:

BlueLinx Corporation
4300 Wildwood Parkway
Atlanta GA 30339-8401

(888) 602-BLUE (2583) (MSDS Request)
(800) 424-9300 (CHEMTREC)

*** Section 2 – Composition / Information on Ingredients ***

CAS #	Component	Percent	OSHA PEL	ACGIH TLV
50-00-0	Formaldehyde	< 0.1	0.75 ppm TWA 2 ppm STEL	0.3 ppm Ceiling
Not Applicable	Hardwoods		5 mg/m ³ TWA 10 mg/m ³ STEL	1 mg/m ³ TWA
Not Applicable	Softwoods		5 mg/m ³ TWA 10 mg/m ³ STEL	5 mg/m ³ TWA 10 mg/m ³ STEL
Not Applicable	Western Red Cedar		2.5 mg/m ³ TWA	1 mg/m ³ TWA

The exposure limits were vacated in 1992; the present exposure limits governing wood dust are 15 mg/m³ (Total Dust) and 5 mg/m³ (Respirable Fraction)

***** Section 11 – Toxicological Information *****

WOOD DUST:

Wood dust generated from sawing, sanding or machining this product may cause nasal dryness, irritation, coughing and sinusitis. The International Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP) classify wood dust as a (known) human carcinogen (Group I). This classification is based primarily on increased risk in the occurrence of adenocarcinomas of the nasal cavities and paranasal sinuses associated with exposure to wood dust. The evaluation did not find sufficient evidence to associate cancers of the oropharynx, hypopharynx, lung, lymphatic and hematopoietic systems, stomach, colon or rectum with exposure to wood dust.

FORMALDEHYDE:

Exposure to gaseous formaldehyde may cause temporary irritation to the nose, throat as well as lead to respiratory disorders. However, in a thorough review of sensory/respiratory irritation studies of formaldehyde from the standpoint of occupational exposure, an expert panel has observed exposure up to concentrations of 0.3 ppm failed to produce irritation. With regard to the respiratory disorders, studies have concluded the threshold for long-term chronic pulmonary effects is between 0.4 and 3 ppm and for chronic obstructive pulmonary disease is 2 ppm. Pre-existing respiratory disorders may be aggravated by exposure.

Epidemiology studies of workers exposed to formaldehyde have failed to consistently identify an association between formaldehyde exposure and cancer. In animal studies, rats and mice exposed to high levels of formaldehyde developed nasal cancer while hamsters did not. These exposure levels are far above those levels normally found in the workplace. Formaldehyde is listed by the International Agency for Research on Cancer (IARC) as a probable human carcinogen (Group 2A). The National Toxicology Program (NTP) included formaldehyde in the Annual Report on Carcinogens. OSHA regulates formaldehyde as a potential carcinogen for exposures exceeding 0.5 ppm.

***** Section 12 – Ecological Information *****

A: General Product Information

This product is not expected to have ecological effects on the environment.

B. Component Analysis – Ecotoxicity - Aquatic Toxicity

Aquatic values were not found for the individual components listed in Section 2.

Environmental Fate:

No information available.

***** Section 13 – Disposal Considerations *****

US EPA Waste Number & Descriptions

A. General Product Information

If the material is altered by processing, use or contamination, the waste must be tested using methods described in 40 CFR 261 to determine if it meets applicable definitions of hazardous wastes.

B. Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions:

In its purchased form, dispose of Wood and Wood Products by ordinary trash collection. Sawdust and construction debris should be cleaned up and disposed of after construction. Incinerate or landfill in accordance with local, state and federal regulations.

***** Section 14 – Transportation Information *****

US DOT Information

This material is not a DOT hazardous material.

Canadian – Transportation of Dangerous Goods (TDG)

This product is not listed as a hazardous material.

***** Section 15 – Regulatory Information *****

US Federal Regulations

A: General Product Information

Wood products are not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. However, wood dust generated by sawing, sanding or machining these products may be hazardous.

B: Component Analysis

This product in its purchased form does not contain SARA identified chemicals.

TSCA:

This product complies with TSCA inventory requirements.

***** Section 16 - Other Information *****

LABEL TEXT:

Wood Products

CAUTION!

WOOD DUST CAN CAUSE A FLAMMABLE OR EXPLOSION HAZARD

WOOD DUST MAY CAUSE LUNG, UPPER RESPIRATORY TRACT, EYE AND SKIN IRRITATION. THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) AND THE NATIONAL TOXICOLOGY PROGRAM (NTP) LIST WOOD DUST AS A (GROUP 1) CARCINOGEN.

PRECAUTIONS

Avoid dust contact with ignition source.

Wood dust clean up and disposal activities should be accomplished in a manner to minimize creation of airborne dust.

Avoid breathing dust.

Avoid dust contact with eyes and skin.

FIRST AID

If inhaled, remove to fresh air. In case of contact, flush eyes and skin with water. If irritation persists, seek medical attention.

HANDLING AND STORAGE

Avoid frequently or prolonged inhalation of wood dust. Protect eyes from flying particles. Avoid contact with skin and wash exposed areas thoroughly. Change protective clothing and gloves when sign of contamination appear.

Wood products are combustible and, therefore, should not be subjected to temperatures exceeding the autoignition temperature. Water spray may be used to wet down wood dust generated by sawing, sanding or machining to reduce likelihood of ignition or dispersion of dust into the air.

ADDITIONAL TEXT:

This product contains formaldehyde.

For additional information, see the BlueLinx Corporation Material Safety Data Sheet for this product.

Product Services
BlueLinx Corporation
4300 Wildwood Parkway
Atlanta, GA 30339-8401

***** Section 3 – Hazards Identification *****

Emergency Overview

CAUTION! Sawing, sanding or machining wood products may produce wood dust, which cause an explosion hazard. This product may release small quantities of formaldehyde in gaseous form. Emissions decrease through time as the board ages. Formaldehyde and/or wood dust may cause irritation to the eye, skin and respiratory tract.

Target Organ:

Eye, Skin and Respiratory Tract.

Description:

Boards manufactured from wood particles, fibers, wood piles, wood veneers and other products bonded to wood face veneers using urea-formaldehyde resin.

Potential Health Effects

Potential Health Effects: Inhalation

Wood dust may cause nasal dryness, irritation, coughing and sinusitis. Repeated exposures can produce allergic responses in some sensitive individuals. Gaseous formaldehyde may cause temporary irritation to the nose and throat.

Potential Health Effects: Eyes

Wood dust can cause mechanical irritation. Gaseous formaldehyde may cause temporary irritation to the eyes.

Potential Health Effects: Skin

Both formaldehyde and various species of wood dust may evoke allergic contact dermatitis in sensitized individuals. If an allergy pre-exists or develops, it may be necessary to remove the sensitized worker from further exposure to wood dust or wood-based products.

Potential Health Effects: Ingestion

Not applicable under normal conditions of use.

Medical Conditions Aggravated

Wood dust exposure may aggravate pre-existing skin, eye, respiratory and cardiovascular disorders.

HMIS Ratings: Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4* = Chronic

Special Fire Fighting Procedure:

Use water to wet down wood dust to reduce the likelihood of ignition or dispersion of dust into the air.
Remove burned, charred or wet dust to open, secure area after fire is extinguished.

HFPA Ratings: Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4*

***** Section 6 – Accidental Release Measures *****

Accidental Release:

Not applicable for product in purchased form.

Clean-Up Procedures:

Wood dust may be vacuumed or shoveled for recovery or disposal. Wet down accumulated dusts prior to vacuuming or shoveling in order to prevent explosion hazards. Avoid dusty conditions and provide good ventilation. Wood dust clean up and disposal activities should be accomplished in a manner to minimize creation of airborne dust. Do not inhale dusts during clean up.

***** Section 7 - Handling and Storage *****

Handling Procedures

Avoid repeated or prolonged breathing of wood dust. Avoid eye contact or repeated or prolonged contact with skin. Change protective clothing and gloves when sign of contamination appear. Provide adequate ventilation to reduce the possible build up of formaldehyde gas, particularly when high temperatures occur.

Storage Procedures

UF bonded wood products should not be stored where exposure to water could occur. Wood products are combustible and, therefore, should not be subjected to temperatures exceeding the autoignition temperature. Water spray may be used to wet down wood dust generated by sawing, sanding or machining to reduce the likelihood of ignition or dispersion of dust into the air.

***** Section 8 – Exposure Controls / Personal Protection *****

Engineering Controls

Due to the explosive potential of wood dust when suspended in air, precautions should be taken during sanding, sawing or machining of wood products to prevent sparks or other ignition sources in ventilation equipment. Use of totally enclosed motors is recommended. Provide local exhaust as necessary to meet OSHA requirements for wood dust exposure.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

(PPE RECOMMENDED BELOW: IT MAY BE NECESSARY TO FOLLOW PPE REQUIREMENTS AS DETERMINED BY YOUR WORKPLACE)

Personal Protective Equipment: Respiratory

Use NIOSH/OSHA approved respirator when ventilation is not possible and if permissible exposure limits to wood dust may be exceeded.

Personal Protective Equipment: Eyes/Face

Recommend goggles or safety glasses as conditions indicate when sawing, sanding or machining wood products.

Personal Protective Equipment: Skin

Protective equipment such as gloves and outer garments may be needed to reduce skin contact. After working with the wood and before eating, drinking, toileting and use of tobacco products, wash exposed areas thoroughly.

Other Protective Clothing or Equipment:

No special requirements under normal conditions of use. Protective clothing should be worn where prolonged skin contact may occur. Protective clothing should be laundered separately from household clothing and before reuse.

***** Section 9 – Physical & Chemical Properties *****

Appearance:	Varies	Odor:	Wood species dependent
Physical State:	Solid	PH:	Not applicable
Vapor Pressure:	Not applicable	Vapor Density:	Not applicable
Boiling Point:	Not applicable	Melting Point:	Not applicable
Solubility (H₂O)	Insoluble	Specific Gravity:	<1.0

***** Section 10 – Chemical Stability & Reactivity Information *****

Chemical Stability

This is a stable material.

Chemical Stability: Conditions to Avoid

Wood dust generated from sawing, sanding or machining the product is extremely combustible. Keep in cool dry place away from ignition sources.

Incompatibility

Oxidizing agents and drying oils.

Hazardous Combustion Products:

Thermal-oxidative degradation, or burning, of wood can produce irritating and potentially toxic fumes and gases including carbon monoxide, aldehydes and organic acids.

Hazardous Polymerization

Will not occur.

CALIFORNIA:

Proposition 65 provides for labeling and disclosure of the presence of chemical(s) known to the State of California to cause cancer or reproductive toxicity if ordinary use of the product will result in exposures above a no significant risk level. The products covered by this MSDS contain formaldehyde and may, depending on conditions, such as temperature and relative humidity, emit formaldehyde gas. Formaldehyde gas is listed under Proposition 65 as a chemical known to the State to cause cancer. Formaldehyde gas emissions have been tested from various vendors and are below the no significant risk level and do not require warnings

CANADA WHMIS:

This product is not a controlled product.

HUD:

The Department of Housing and Urban Development (HUD) Manufactured Home Construction and Safety Standard, regulation 24 CFR 3280 as amended, provides for third-party certification of all plywood, medium density fiberboard (MDF) and particleboard manufactured with urea-formaldehyde resin for formaldehyde emissions. The following formaldehyde emission levels should not be exceeded.

Particleboard:

Applications (Other Than Flooring): 0.3 ppm at a loading rate of 0.13 square feet/cubic foot
Flooring (Decking/Underlayment): 0.2 ppm at a loading rate of 0.13 square feet/cubic foot

Plywood:

0.2 ppm at a loading rate of 0.29 square feet/cubic foot

MDF:

0.3 PPM at a loading rate of 0.08 square feet/cubic foot

ANSI A208.2 2002 MEDIUM DENSITY FIBERBOARD (MDF):

This industry consensus standard limits formaldehyde emissions from MDF to 0.3 ppm at a loading rate of 0.08 square feet/cubic foot.

ANSI A208.1 – 1999 PARTICLEBOARD:

This industry consensus standard limits formaldehyde emissions from particleboard flooring products (underlayment and manufactured home decking-MHD) to 0.2 ppm at a loading rate of 0.13 square feet/cubic foot.

Particleboard materials used in applications (other than flooring), shall not exceed 0.03 ppm at a loading rate of 0.13 square feet/cubic foot.

MINNESOTA:

Minnesota Statutes 2003, Chapters 144.495 and 325F.181 require all UF bonded wood products used or sold in Minnesota meet the HUD Formaldehyde Emission Standard, 24 CFR Sections 3280.308 and 3280.406 for particleboard.

Other Information

IMPORTANT: The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations. BLUELINX CORPORATION MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, CONCERNING THE ACCURACY OR COMPLETENESS OF THE INFORMATION AND DATA HEREIN. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE SPECIFICALLY EXCLUDED. BlueLinx Corporation will not be liable for claims relating to any party's use of or reliance on information and data contained herein regardless of whether it is claimed that the information and data are inaccurate, incomplete or otherwise misleading.

This Material Safety Data Sheet is being furnished for similar wood products produced by different manufacturers. Consult labels, stamps and markings on the product or packaging for the exact identity of the manufacturer.

Key/Legend:

ACGIH	American Conference of Governmental Industrial Hygienists
C	Ceiling Limit
CAS	Chemical Abstract Services Number
CFR	Code of Federal Regulations
DOT	Department of Transportation
DSL	Domestic Substance List
EPA	Environmental Protection Agency
HEPA	High Efficiency Particulate Air
HMIS	Hazardous Material Identification System
IARC	International Agency for Research on Cancer
NA	Not Available or Not Applicable
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NJTSR	New Jersey Trade Secret Registry
NSL	Non-Domestic Substance List
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PPE	Personal Protective Equipment
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act
TWA	Time Weighted Average
WHIMS	Workplace Hazardous Materials Information System

This is the end of
UF Bonded Wood Products # 2