

Material Safety Data Sheet



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1. Product Identification

Product Name: Medium Density and High Density Fiberboard (MDF / HDF)

2. Composition / Ingredients

Name	CAS #	Concentration	Exposure Limit
Formaldehyde	50-00-0	< 0.1% by weight	OSHA PEL –TWA 0.75 ppm OSHA PEL- STEL 2 ppm ACGIH TLV- 0.3 ppm
Wood (Hardwood and Softwood of various species)	NA	> 90% by weight	OSHA PEL –TWA 15 mg/m3 Total Dust OSHA PEL- 5mg/m3 Respirable Dust ACGIH TLV- 1.0 mg/m3 Inhalable Dust

3. Hazards Identification

Appearance: Straw yellow to medium Brown. Green for moisture resistant products.

Health Exposure Hazards:

Inhalation: Abrasive action may cause wood dust to be generated that may be an irritant to the respiratory system. Fiberboard can emit minute amounts of gaseous formaldehyde that decreases over time.

Eye: Abrasive action may cause wood dust to be generated that may be an irritant to the eyes.

Skin: Product may be an irritant to wood sensitive individuals.

4. Emergencies and First Aid Procedures

Inhalation: Gaseous formaldehyde and wood dust may irritate respiratory system. Seek fresh air if PEL values are exceeded. Seek medical advice for chronic symptoms of exposure.

Eye: Gaseous formaldehyde and wood dust may irritate the eyes. Flush the eyes with water if contact is made with wood fiber.

Skin: Product may be an irritant and may cause contact dermatitis to wood sensitive individuals. Wash skin with soapy water. Seek medical advice for chronic symptoms of exposure.

5. Fire Fighting Measures

Flammability : Material will burn.

LEL: 40 gr/m³ for wood dust.

Auto ignition Temperature: 425 - 475 degrees Fahrenheit.

Flash Point : NA

Extinguishing Media: Use water, dry chemical or carbon dioxide (CO₂) to extinguish flames.

Fire Fighting Instructions: Evacuate area. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Hazardous Combustion Products: Smoke, Fume, Oxides of carbon, and Aldehydes.

NFPA rating: **Health 0** **Flammability 1** **Reactivity 0**

6. Accidental Release Measures

ENVIRONMENTAL PRECAUTIONS: Not Applicable in finished product. Use precaution to control dust generation from abrasive cutting or sanding of the finished product.

7. Handling and Storage

Handling: No special instructions.

Storage: Provide adequate ventilation to avoid possible build up of formaldehyde emissions.

8. Exposure Controls / Personal Protection

Engineering Controls: No special requirements under ordinary conditions of use and with adequate ventilation. Safety glasses are recommended when cutting or sanding finished product.

Respiratory Protection: No special requirements under ordinary conditions of use and with adequate ventilation. If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate.

Hand Protection: No protection is ordinarily required under normal conditions of use. Inspect and replace worn or damaged gloves.

Eye Protection: Safety glasses with side shields are recommended when cutting, sanding, etc.

Skin and Body Protection: No skin protection is ordinarily required under normal conditions of use. With wood sensitive individuals, precautions should be taken to avoid skin contact.

9. Physical and Chemical Properties

Physical Description: A composite panel of ligno-cellulose fibers bound with thermo set resin.

Appearance: Solid

Color: Straw yellow to medium Brown. Green for moisture resistant products.

Odor: Mild Wood Odor

Boiling Point : NA

Melting Point : NA

Flash Point : NA

Auto Ignition : > 425 Fahrenheit

Relative Density: 680 kg/m³ – 990 kg/m³

Solubility in Water: Negligible

NA=Not Applicable

10. Stability and Reactivity

Stability: Stable.

Conditions to Avoid: Extreme heat and high relative humidity may liberate emissions of formaldehyde.

Incompatibility: Strong Acids and or Oxidizing Agents.

Hazardous Decomposition Products: Product does not decompose at ambient temperatures. Thermal decomposition can produce oxides of carbon, aldehydes, and organic acids.

Hazardous Polymerization: Will not occur.

11. Toxicological Data

Acute Effects: No data exists for the composite mixture of MDF and HDF fiber board. However, the product itself may liberate formaldehyde if not stored properly and or wood dust if cut, sanded, or other abrasive action is applied.

Chronic Effects: No data exists for the composite mixture of MDF and HDF fiber board.

Inhalation: Studies suggest that cutting, sanding, or other abrasive action to this product may generate air born wood dust and or formaldehyde which may irritate the respiratory system or aggravate existing respiratory conditions. Users may become sensitized to wood dust or formaldehyde emissions over extended periods of time. Seek professional care if any of these symptoms are experienced. Respiratory protection may be needed if OSHA PEL is exceeded.

Eye Contact: Wood fiber and or formaldehyde emissions from cutting, sanding, or other abrasive action may cause irritation of the eyes. Safety goggles or safety glasses are recommended.

Dermal Contact: This product when cut, sanded, or abrasively altered may produce fiber that may be irritating to the skin for wood sensitized individuals. Gloves and or other dermal barriers are recommended if this occurs.

12. Ecological Information

No specific environmental data for this product is available.

Degradability: This product is expected to be inherently biodegradable.

13. Disposal Considerations

This product can be incinerated or land filled. Check with your local state, and federal regulations before disposal. This product is not classified as a hazardous waste under the federal; regulations as stated in 40 CFR 261, but be advised that some state or local disposal requirements may differ from federal requirements.

14. Transport Information

USA DOT: Not regulated by US DOT.

15. Regulatory Information

US OSHA Hazardous Communication Standard: This product is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200. Cutting, sanding, or machining this product may liberate emissions of wood dust and formaldehyde.

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:
This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312) Reportable Hazardous Categories: None.

This product contains no chemicals subject to the SARA (313) toxic release program.

WHMIS: This product is not considered a controlled product.

16. Additional Information

Prepared by: Kronospan LLC

Date Prepared: 4/22/08

Kronospan MSDS are available at: <http://www.kronospanusa.com>

User Responsibility: The information contained within this Material Safety Data Sheet is based upon sources believed to be reliable. It is the user's responsibility to follow the guidelines as outlined within this MSDS. The user assumes all responsibility for the use, storage, and handling of this product. Kronospan LLC makes no warranty of any kind, expressed or implied, for the accuracy of the data contained within this MSDS. The users should always follow the most current MSDS available.