

Material Safety Data Sheet
MEDIUM DENSITY FIBERBOARD (MDF)²



Plum Creek Northwest Plywood, Inc.
 500 12th Ave. West
 P.O. BOX 1990
 Columbia Falls, MT 59912

Emergency Phone: 406-892-6200
 Other Information: 406-892-6312
 Revised Date: January 1, 2005
 Website: www.plumcreek.com

Signature of Person Responsible for Preparation:

Section 1: IDENTITY

Common Name (used on label) (Trade Name & Synonyms)	MDF ² ®, MEDIUM DENSITY FIBERBOARD	Cas No.	N/A
Chemical Name	N/A	Chemical Family	N/A
Formula	N/A		

SECTION 2: HAZARDOUS INGREDIENTS

Principal Hazardous Component(s) (chemical & common name(s))	%	Threshold Limit Value (units)
SOFT WOOD DUST		5.0 mg/m ³
UREA-FORMALDEHYDE RESIN	*7-10%	0.75 ppm
*THIS PRODUCT MAY CONTAIN GREATER THAN 0.1% FORMALDEHYDE		
WAX (PARAFFIN)	<1%	2.0 mg/m ³
POST TREATMENT		
AMMONIA	<1%	25.0ppm

*Some products are treated after manufacturing with ammonia to further reduce formaldehyde emissions.

SECTION 3: PHYSICAL & CHEMICAL CHARACTERISTICS (Fire & Explosion Data)

Boiling Point	N/A	Specific Gravity (H ₂ O=1)	N/A	Vapor Pressure (mm Hg)	N/A
Percent Volatile By Volume (%)	N/A	Vapor Density (Air=1)	N/A	Evaporation Rate (_____ = 1)	N/A
Solubility in Water	INSOLUBLE	Reactivity in Water	N/A		
Appearance and Odor	LIGHT TAN-COLORED SOLID PANEL.				
Flash Point	N/A	Flammable Limits in Air % by Volume	Lower 40 g/m ³	Upper	Extinguisher Media
					Water, CO ₂ , Sand
Auto-Ignition Temperature	400° - 500°F				
Special Fire Fighting Procedures	SATURATE BOARD WITH WATER AND MOVE TO A SECURE OUTSIDE STORAGE LOCATION. WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. AVOID BREATHING SMOKE. DUST GENERATED FROM SAWING, SANDING OR MACHINING MAY CREATE A FIRE AND EXPLOSION HAZARD.				
Unusual Fire and Explosion Hazards					

SECTION 4: PHYSICAL HAZARDS

Stability	Unstable [] Stable [x]	Conditions to Avoid	RELATIVE HUMIDITY AND TEMPERATURE AFFECT THE RATE OF FORMALDEHYDE AND AMMONIA EMISSIONS. PYROLYSIS MAY OCCUR AT LOWER TEMPERATURES.
Incompatibility (Materials to Avoid)	STRONG OXIDIZING AGENTS, STRONG ACIDS		
Hazardous Decomposition Products	TOXIC FUMES AND GASES, INCLUDING CARBON MONOXIDE, ALDEHYDES AND ORGANIC ACIDS.		
Hazardous Polymerization	May Occur [] Will Not Occur [x]	Conditions to Avoid	NONE

SECTION 5: HEALTH HAZARDS

Threshold Limit Value	25.0 ppm TWA (AMMONIA); 35.0 ppm STEL (AMMONIA)			
Signs and Symptoms of Exposure	1. Acute Overexposure	IRRITATION OF SKIN, EYES, NOSE AND RESPIRATORY SYSTEM. SENSITIZATION OF THE SKIN AND RESPIRATORY SYSTEM		
	2. Chronic Overexposure	THE E.P.A. HAS CLASSIFIED FORMALDEHYDE AS A PROBABLE HUMAN CARCINOGEN. WOOD DUST EXPOSURES HAVE BEEN ASSOCIATED WITH NASAL CANCER.		
Medical Conditions Generally Aggravated by Exposure	RESPIRATORY CONDITIONS OR ALLERGIES, SKIN CONDITIONS			
Chemical Listed as Carcinogen or Potential Carcinogen	National Toxicology Program	Yes [] No []	I.A.R.C. Monographs	Yes [x] No []
	OSHA Permissible Exposure Limit	0.75 ppm FORMALDEHYDE 50.0 ppm AMMONIA	ACGIH Threshold	Other Exposure Limit Used 2.0 ppm STEL 0.5 ppm ACTION FORMALDEHYDE

Emergency and First Aid Procedures:

Inhalation	EXPOSURE TO EXCESSIVE CONCENTRATIONS MAY CAUSE UNPLEASANT DEPOSITION IN THE NASAL PASSAGE RESULTING IN DRYNESS, COUGH AND HEADACHE. AVOID BREATHING DUST, REMOVE FROM EXPOSURE.
Eyes	MAY MECHANICALLY IRRITATE EYES RESULTING IN REDNESS OR WATERING. FLUSH WITH CLEAN WATER TO REMOVE PARTICLES. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.
Skin	MAY ELICIT CONTACT DERMATITIS IN SENSITIZED INDIVIDUALS OR CAUSE MECHANICAL IRRITATION. IF IRRITATION OR DERMATITIS DEVELOPS, SEEK MEDICAL ATTENTION.
Ingestion	N/A

SECTION 6: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specific Type)	APPROVED DUST RESPIRATOR							
Ventilation	Local Exhaust	RECOMMENDED	Mechanical (General)	RECOMMENDED	Special	N/A	Other	N/A
Protective Gloves	RECOMMENDED		Eye Protection	SAFETY GLASSES AND/OR GOGGLES				
Other Protective Clothing or Equipment	PROTECTIVE OUTER LAYER MAY BE DESIRABLE IN EXTREMELY DUSTY AREAS.							

SECTION 7: SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling and Storage	PROVIDE ADEQUATE VENTILATION. DETECTABLE LEVELS OF FORMALDEHYDE AND/OR AMMONIA VAPORS MAY BE RELEASED DURING STORAGE.
Other Precautions	STORE IN A COOL, DRY PLACE AWAY FROM OPEN FLAME, SPARKS OR HOT SURFACES.
Steps to be Taken in Case Material is Released or Spilled	VACUUM, SWEEP, OR SHOVEL TO MINIMIZE DUST GENERATION. PROVIDE ADEQUATE VENTILATION.
Waste Disposal Methods	DISPOSE ACCORDING TO APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. RESINS USED IN GLUE FORMULATIONS CONTAIN FORMALDEHYDE

IMPORTANT

The above information is provided in good faith and believed to be correct in accordance with 29 CFR 1910.1200. Individuals receiving this information should make their own determinations as to the suitability of this product for their purposes prior to use.

Material Safety Data Sheet
WOOD DUST



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Other Information: 406-892-6312
Revised Date: January 1, 2005
Website: www.plumcreek.com

Signature of Person Responsible for Preparation:

Section 1: IDENTITY

Common Name (used on label) Trade Name & Synonyms)	SANDER DUST, SAW DUST	Cas No.	N/A
Chemical Name	N/A	Chemical Family	N/A
Formula	MAY CONSIST OF THE FOLLOWING SPECIES: PONDEROSA PINE, LODGEPOLE PINE, IDAHO WHITE PINE, DOUGLAS ALPINE FIR, WESTERN LARCH, ENGLEMAN SPRUCE, WESTERN RED CEDAR, GRAND FIR, WHITE BARK PINE, MOUNTAIN HEMLOCK, SOUTHERN YELLOW PINE.		

SECTION 2: HAZARDOUS INGREDIENTS

Principal Hazardous Component(s) (chemical & common name(s))	%	Threshold Limit Value (units)
WOOD DUST* * Wood dust is listed as a probable human carcinogen		5.0 mg/m ³
WESTERN RED CEDAR HARD WOOD DUST		2.5 mg/m ³ 1.0 mg/m ³

SECTION 3: PHYSICAL & CHEMICAL CHARACTERISTICS (Fire & Explosion Data)

Boiling Point	N/A	Specific Gravity (H ₂ O=1)	N/A	Vapor Pressure (mm Hg)	N/A			
Percent Volatile By Volume (%)	N/A	Vapor Density (Air=1)	N/A	Evaporation Rate (_____ = 1)	N/A			
Solubility In Water	N/A	Reactivity in Water	N/A					
Appearance and Odor	LIGHT BROWN OR TAN COLORED GRANULAR SOLID. SLIGHTLY AROMATIC. COLOR AND ODOR VARY DEPENDING ON THE SPECIES							
Flash Point	N/A	Flammable Limits in Air % by Volume	Lower 40.0 g/m ³	Upper	Extinguisher Media	Water, CO ₂ , Sand	Auto-Ignition Temperature	400° - 500°F
Special Fire Fighting Procedures	USE WATER TO THOROUGHLY WET WOOD DUST. REMOVE ANY CHARRED MATERIAL TO AN OPEN SECURE AREA TO ENSURE ALL FIRE IS EXTINGUISHED. AVOID BREATHING SMOKE. WEAR SCBA.							
Unusual Fire and Explosion Hazards	WOOD DUST GENERATED FROM SAWING, SANDING, MACHINING, ETC. MAY CREATE A SEVERE FIRE AND EXPLOSION HAZARD.							

SECTION 4: PHYSICAL HAZARDS

Stability	Unstable [] Stable [x]	Conditions to Avoid	OPEN FLAMES OR SPARKS. PYROLYSIS MAY OCCUR.
Incompatibility (Materials to Avoid)	OXIDIZERS AND DRYING OILS.		
Hazardous Decomposition Products	TOXIC FUMES AND GASES, INCLUDING CARBON MONOXIDE		
Hazardous Polymerization	May Occur [] Will Not Occur [x]	Conditions to Avoid	

SECTION 5: HEALTH HAZARDS

Threshold Limit Value	5.0 mg/m ³ TWA; 10.0 mg/m ³ STEL WOOD DUST		
Signs and Symptoms of Exposure	1. Acute Overexposure	WOOD DUST IS A MECHANICAL IRRITANT TO EYES, NOSE AND THROAT.	
	2. Chronic Overexposure	MAY CAUSE DERMATITIS FOLLOWING PROLONGED CONTACT. RESPIRATORY SENSITIZATION MAY OCCUR FROM EXPOSURE TO WESTERN RED CEDAR.	
Medical Conditions Generally Aggravated by Exposure	PRE-EXISTING RESPIRATORY CONDITIONS MAY BE AGGRAVATED BY REPEATED OR PROLONGED EXPOSURE TO WOOD DUST IN EXCESS OF ALLOWABLE LIMITS.		
Chemical Listed as Carcinogen or Potential Carcinogen	National Toxicology Program	Yes [] No []	I.A.R.C. Monographs Yes [x] No []
OSHA Permissible Exposure Limit	15.0 mg/m ³ PNOG	Other Exposure Limit Used	OSHA Yes [x] No [] 10.0 mg/m ³ STEL WOOD DUST
Emergency and First Aid Procedures:			
Inhalation	EXPOSURE TO EXCESSIVE CONCENTRATIONS MAY CAUSE UNPLEASANT DEPOSITION IN THE NASAL PASSAGE RESULTING IN DRYNESS, COUGH AND HEADACHE. AVOID BREATHING DUST, REMOVE FROM EXPOSURE.		
Eyes	MAY MECHANICALLY IRRITATE EYES RESULTING IN REDNESS OR WATERING. FLUSH WITH CLEAN WATER TO REMOVE PARTICLES. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.		
Skin	MAY ELICIT CONTACT DERMATITIS IN SENSITIZED INDIVIDUALS OR CAUSE MECHANICAL IRRITATION. IF IRRITATION OR DERMATITIS DEVELOPS, SEEK MEDICAL ATTENTION.		
Ingestion	N/A		

SECTION 6: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specific Type)	NIOSH APPROVED DUST RESPIRATOR.								
Ventilation	RECOMMENDED	Local Exhaust	RECOMMENDED	Mechanical (General)	RECOMMENDED	Special	N/A	Other	N/A
Protective Gloves	RECOMMENDED		Eye Protection	SAFETY GLASSES, AND/OR GOGGLES					
Other Protective Clothing or Equipment	PROTECTIVE OUTER LAYER MAY BE DESIRABLE IN EXTREMELY DUSTY AREAS.								

SECTION 7: SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling and Storage	STORE IN COOL, DRY PLACE AWAY FROM OPEN FLAME, SPARKS OR HOT SURFACES.
Other Precautions	STATIC ELECTRICITY MAY BE SUFFICIENT TO IGNITE SUSPENDED WOOD DUST. WOOD DUST IS NOT RECOMMENDED AS AN ABSORBENT MATERIAL. SANDER DUST IS EXTREMELY COMBUSTIBLE.
Steps to be Taken in Case Material is Released or Spilled	VACUUM, SWEEP, OR SHOVEL TO MINIMIZE DUST GENERATION. PROVIDE ADEQUATE VENTILATION USE NIOSH APPROVED DUST RESPIRATOR AND GOGGLES TO CONTROL EXPOSURE.
Waste Disposal Methods	DISPOSE ACCORDING TO APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. WOOD ASH IS CORROSIVE.

IMPORTANT

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