

Material Safety Data Sheet
MEDIUM DENSITY FIBERBOARD



Plum Creek MDF, Inc.
 265 Meadow Lake Blvd.
 Columbia Falls, MT 59912

Emergency Phone: 406-892-6200
 Other Information: 406-892-6312
 Revised Date: January 10, 2008
 Website: www.plumcreek.com

Signature of Person Responsible for Preparation:

SECTION 1: IDENTITY

Common Name (used on label) (Trade Name & Synonyms)	Medium Density Fiberboard, MDF ² ®, HDF, High Density Fiberboard, Glacier Green™	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:				
1. 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.			
2. Eyes	MAY MECHANICALLY IRRITATE EYES RESULTING IN REDNESS OR WATERING. FLUSH WITH CLEAN WATER TO REMOVE PARTICLES. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.			
3. Skin	MAY ELICIT CONTACT DERMATITIS IN SENSITIZED INDIVIDUALS OR CAUSE MECHANICAL IRRITATION. IF IRRITATION OR DERMATITIS DEVELOPS, SEEK MEDICAL ATTENTION.			
4. 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 MIINIMIZE 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.

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SECTION 1: IDENTITY

Common Name (used on label) (Trade Name & Synonyms)	HDF, MDF ² , Glacier Clear™	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))	% Solid Content by Weight	Threshold Limit Value (units)
SOFT WOOD FIBER	87- 92 %	15.0 mg/m ³
PHENOL FORMALDEHYDE RESIN	*7- 10 %	0.75 ppm
WAX (PARAFFIN) ADDED TO IMPROVE WATER RESISTANT PROPERTIES	1- 3 %	2.0 mg/m ³

Note: A fully cured and cooled phenolic panel would not be expected to emit formaldehyde at normally detectable ranges.

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 TANNISH ORANGE COLORED SOLID PANEL WITH AN AROMATIC ODOR CHARACTERISTIC OF PHENOL.							
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	WOOD DUST CAN BE EXPLOSIVE. AVOID DUST ACCUMULATIONS IN CEILING AREAS.							

SECTION 4: PHYSICAL HAZARDS

Stability	Unstable [] Stable [x]	Conditions to Avoid	PYROLYSIS MAY OCCUR. AVOID DUST ACCUMULATIONS ON HOT SURFACES.
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					
Signs and Symptoms of Exposure	1. Acute Overexposure	IRRITATION OF SKIN, EYES, NOSE AND RESPIRATORY SYSTEM TYPICAL OF WOOD DUST EXPOSURE.			
	2. Chronic Overexposure	EXPOSURE HARD WOOD DUST HAS BEEN ASSOCIATED WITH NASAL CANCER.			
Medical Conditions Generally Aggravated by Exposure	RESPIRATORY CONDITIONS OR ALLERGIES, SKIN CONDITIONS				
Chemical Listed as Carcinogen or Potential Carcinogen	WOOD DUST FORMALDEHYDE	National Toxicology Program Yes [] No []	I.A.R.C. Monographs Yes [x] No []	OSHA Yes [x] No []	
OSHA Permissible Exposure Limit	0.75 ppm FORMALDEHYDE	ACGIH Threshold (C) CEILING 0.3 ppm	Other Exposure Limit Used	2.0 ppm STEL 0.5 ppm ACTION	
Emergency and First Aid Procedures:					
1. Inhalation	EXPOSURE TO EXCESSIVE CONCENTRATIONS OF WOOD DUST MAY CAUSE UNPLEASANT DEPOSITION IN THE NASAL PASSAGE RESULTING IN DRYNESS, COUGH AND HEADACHE. AVOID BREATHING DUST, REMOVE FROM EXPOSURE.				
2. Eyes	WOOD DUST MAY MECHANICALLY IRRITATE EYES RESULTING IN REDNESS OR WATERING. FLUSH WITH CLEAN WATER TO REMOVE PARTICLES. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.				
3. Skin	WOOD DUST MAY ELICIT CONTACT DERMATITIS IN SENSITIZED INDIVIDUALS OR CAUSE MECHANICAL IRRITATION. IF IRRITATION OR DERMATITIS DEVELOPS, SEEK MEDICAL ATTENTION.				
4. Ingestion	N/A				

SECTION 6: SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specific Type)	NIOSH 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.
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 MIINIMIZE DUST GENERATION. PROVIDE ADEQUATE VENTILATION.
Waste Disposal Methods	DISPOSE ACCORDING TO APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. RESINS USED IN GLUE FORMULATIONS CONTAIN FORMALDEHYDE

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