

Material Safety Data Sheet

**FIBERBOARD IV**

Glacier Clear No-Added Formaldehyde and No-Added Urea Formaldehyde



**Plum Creek**

Growing Value from Exceptional Resources

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

Emergency Phone: 406-892-6200  
Other Information: 406-892-6251  
Revised Date: November 18, 2010  
Website: www.plumcreek.com

**SECTION 1: IDENTITY**

Common Name (used on label) (Trade Name & Synonyms)	Glacier Clear™, NAF, NAUF	Chemical Family	N/A
Chemical Name	N/A		
Formula	N/A		

**SECTION 2: HAZARDOUS INGREDIENTS**

Principal Hazardous Component(s) (chemical & common name(s))	% Solid Content by Weight	Cas No.
SOFT WOOD DUST (100 % PRE-CONSUMER RECYCLED WOOD FIBER)	89- 94 %	
METHYLENE-DIPHENYL-DIISOCYANATE (MDI)	*5 – 10 %	100-68-8
PHENOL FORMALDEHYDE RESIN	**7- 10 %	9003-35-4
WAX (PARAFFIN) ADDED TO IMPROVE WATER RESISTANT PROPERTIES	1 %	8002-74-2

\*NAF contains no added formaldehyde (MDI resin)

\*\*NAUF contains no added urea formaldehyde (PF resin)

After pressing, there should not be any detectable residual MDI remaining. MDI resin reacts during pressing to form polyurethane.

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

Boiling Point	N/A	Specific Gravity (H <sub>2</sub> 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 TAN COLORED SOLID PANEL.

Flash Point	N/A	Flammable Limits in Air % by Volume	Lower N/A	Upper N/A	Extinguisher Media	Water	Auto-Ignition Temperature	400' – 500' F
Special Fire Fighting Procedures	SATURATE BOARD WITH WATER AND MOVE TO A SECURE OUTSIDE STORAGE LOCATION. AVOID BREATHING SMOKE.							
Unusual Fire and Explosion Hazards	WOOD DUST GENERATED FROM SAWING, SANDING, MACHINING, ETC. MAY CREATE A FIRE AND EXPLOSION HAZARD. AVOID DUST ACCUMULATIONS.							

**SECTION 4: PHYSICAL HAZARDS**

Stability	Unstable <input type="checkbox"/> Stable <input checked="" type="checkbox"/>	Conditions to Avoid	PYROLYSIS MAY OCCUR. AVOID DUST ACCUMULATIONS ON HOT SURFACES.
Incompatibility (Materials to Avoid)	STRONG OXIDIZING AGENTS, STRONG ACIDS		
Hazardous Decomposition Products	CARBON MONOXIDE		
Hazardous Polymerization	May Occur <input type="checkbox"/> Will Not Occur <input checked="" type="checkbox"/>	Conditions to Avoid	NONE

**FIBERBOARD**

## SECTION 5: HEALTH HAZARDS

Signs and Symptoms of Exposure	1. Acute Overexposure	WOOD DUST MAY CAUSE EYE AND RESPIRATORY IRRITATION, NASAL DRYNESS, COUGHING, SNEEZING AND WHEEZING AS A RESULT OF INHALATION. FORMALDEHYDE MAY CAUSE TEMPORARY IRRITATION OF SKIN, EYES, OR RESPIRATORY SYSTEM.					
	2. Chronic Overexposure	WOOD DUST MAY CAUSE ALLERGIC DERMATITIS AND RESPIRATORY SENSITIZATION. PROLONGED EXPOSURE TO WOOD DUST HAS BEEN REPORTED BY SOME AGENCIES TO BE ASSOCIATED WITH NASAL CANCER. FORMALDEHYDE MAY CAUSE SENSITIZATION IN SUSCEPTIBLE INDIVIDUALS. FORMALDEHYDE IS CLASSIFIED AS A PROBABLE OR POTENTIAL CARCINOGEN.					
Medical Conditions Generally Aggravated by Exposure	RESPIRATORY CONDITIONS OR ALLERGIES, SKIN CONDITIONS						
Chemical Listed as Carcinogen or Potential Carcinogen	WOOD DUST	National Toxicology Program	Yes [ X ] No [ ]	I.A.R.C. Monographs	Yes [x] No [ ]	OSHA	Yes [x] No [ ]
OSHA Permissible Exposure Limit	MDI	0.020 ppm					
	FORMALDEHYDE	0.75 ppm					
ACGIH Threshold Limit Value	WAX (PARAFFIN)	2.0 mg/m3					
	WOOD DUST	Total: 15 mg/m3 Respirable: 5 mg/m3					
	MDI	0.005 ppm					
ACGIH Threshold Limit Value	Formaldehyde	0.3 ppm					
	WAX (PARAFFIN)	2.0 mg/m3					
	WOOD DUST	Total: 1mg/m3					

California Proposition 65 Warning: DRILLING, SAWING, SANDING OR MACHINING WOOD PRODUCTS GENERATES WOOD DUST, A SUBSTANCE KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER. AVOID INHALING WOOD DUST OR USE A DUST MASK OR OTHER SAFEGAURDS FOR PERSONAL PROTECTION.

California Proposition 65 Warning: THIS PRODUCT CONTAINS FORMALDEHYDE, A SUBSTANCE KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER. USE ADEQUATE VENTILATION AND AVOID INHALING VAPORS AND/OR USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.

**HMIS RATINGS:** HEALTH: 1\* FIRE: 0 PHYSICAL HAZARD: 0

**SCALE:** 0 = MINIMAL 1 = SLIGHT 2 = MODERATE 3 = SERIOUS 4 = SEVERE

## SECTION 6: 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 SOME INDIVIDUALS OR CAUSE MECHANICAL IRRITATION. IF IRRITATION OR DERMATITIS DEVELOPS, SEEK MEDICAL ATTENTION.
4. Ingestion	N/A

## SECTION 7: 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 8: 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.

**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.