

Material Safety Data Sheet
FIBERBOARD iii



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

Emergency Phone: 406-892-6200
 Other Information: 406-892-6312
 Revised Date: March 10, 2009
 Website: www.plumcreek.com

Signature of Person Responsible for Preparation:

SECTION 1: IDENTITY

Common Name (used on label) (Trade Name & Synonyms)	Glacier Green™, High Density Fiberboard (HDF) CFLR, CMRS, CFLM, CCAR, CDFL only	CAS No. 50-00-0	108-78-1
Chemical Name	N/A	Product Thickness	HDF ≤ 0.375 "
Formula	N/A		

SECTION 2: HAZARDOUS INGREDIENTS

Principal Hazardous Component(s) (chemical & common name(s))	% Solid Content by Dry Weight	Threshold Limit Value (units)
SOFT WOOD DUST (100 % PRE-CONSUMER RECYCLED WOOD FIBER)	83 - 87 %	15.0 mg/m ³
UREA FORMALDEHYDE RESIN*	10 – 14 %	0.75 ppm
* Formaldehyde content	< 0.1 %	
WAX (PARAFFIN) *	< 1 %	2.0 mg/m ³
MELAMINE * (see product specific MSDS)	>1 %	N/A

*Wax and Melamine added to improve water resistance properties

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 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	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 DEPENDING ON WOOD SPECIES, MAY CAUSE RESPIRATORY SENSITATION AND/OR IRRITATION. IARC CLASSIFIES WOOD DUST AS A CARCINOGEN TO HUMANS (GROUP 1)
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) Other Exposure Limit Used 2.0 ppm STEL FORMALDEHYDE 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 SOME INDIVIDUALS OR CAUSE MECHANICAL IRRITATION. IF IRRITATION OR DERMATITIS DEVELOPS, SEEK MEDICAL ATTENTION.
4. Ingestion	N/A

HMIS RATINGS: HEALTH: 1 FIRE: 0 PHYSICAL HAZARD: 0
SCALE: 0 = MINIMAL 1 = SLIGHT 2 = MODERATE 3 = SERIOUS 4 = SEVERE

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

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.

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

Emergency Phone: 406-892-6200
 Other Information: 406-892-6312
 Revised Date: March 10, 2009
 Website: www.plumcreek.com

Signature of Person Responsible for Preparation:



SECTION 1: IDENTITY

Common Name (used on label) (Trade Name & Synonyms)	Glacier Green™, High Density Fiberboard (HDF)	CAS No. 50-00-0
Chemical Name	N/A	Product Thickness HDF ≤ 0.375 "
Formula	N/A	

SECTION 2: HAZARDOUS INGREDIENTS

Principal Hazardous Component(s) (chemical & common name(s))	% Solid Content by Dry Weight	Threshold Limit Value (units)
SOFT WOOD DUST (100 % PRE-CONSUMER RECYCLED WOOD FIBER)	85 - 89 %	15.0 mg/m ³
UREA FORMALDEHYDE RESIN*	10 – 14 %	0.75 ppm
WAX (PARAFFIN) *	< 1 %	2.0 mg/m ³
*Formaldehyde content	< 0.1 % .	
*Wax added to improve water resistance properties		

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 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	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 DEPENDING ON WOOD SPECIES, MAY CAUSE RESPIRATORY SENSITATION AND/OR IRRITATION. IARC CLASSIFIES WOOD DUST AS A CARCINOGEN TO HUMANS (GROUP 1)
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) Other Exposure Limit Used 2.0 ppm STEL FORMALDEHYDE 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 SOME INDIVIDUALS OR CAUSE MECHANICAL IRRITATION. IF IRRITATION OR DERMATITIS DEVELOPS, SEEK MEDICAL ATTENTION.
4. Ingestion	N/A

HMIS RATINGS: HEALTH: 1 FIRE: 0 PHYSICAL HAZARD: 0
SCALE: 0 = MINIMAL 1 = SLIGHT 2 = MODERATE 3 = SERIOUS 4 = SEVERE

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

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
FIBERBOARD v



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

Emergency Phone: 406-892-6200
 Other Information: 406-892-6312
 Revised Date: March 10, 2009
 Website: www.plumcreek.com

Signature of Person Responsible for Preparation:

SECTION 1: IDENTITY

Common Name (used on label) (Trade Name & Synonyms)	Glacier Green™, High Density Fiberboard (HDF) Medium Density Fiberboard (MDF) Light Density Fiberboard (LDF)	CAS No. 50-00-0
Chemical Name	N/A	Product Thickness HDF ≥ 0.375 "
Formula	N/A	

SECTION 2: HAZARDOUS INGREDIENTS

Principal Hazardous Component(s) (chemical & common name(s))	% Solid Content by Dry Weight	Threshold Limit Value (units)
SOFT WOOD DUST (100 % PRE-CONSUMER RECYCLED WOOD FIBER)	87- 92 %	15.0 mg/m ³
UREA FORMALDEHYDE RESIN*	7 – 10 %	0.75 ppm
AMMONIA	1 %	50.0 ppm
WAX (PARAFFIN) *	< 1 %	2.0 mg/m ³
*Formaldehyde content	< 0.1 %	

*Wax added to improve water resistance properties

*Product treated with ammonia lowering 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	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	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	DEPENDING ON WOOD SPECIES, MAY CAUSE RESPIRATORY SENSITATION AND/OR IRRITATION. IARC CLASSIFIES WOOD DUST AS A CARCINOGEN TO HUMANS (GROUP 1)

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)	Other Exposure Limit Used	2.0 ppm STEL FORMALDEHYDE 0.5 ppm ACTION 35.0 ppm STEL AMMONIA
---------------------------------	-----------------------	---------------------	---------------------------	--

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

HMIS RATINGS: HEALTH: 1 FIRE: 0 PHYSICAL HAZARD: 0
SCALE: 0 = MINIMAL 1 = SLIGHT 2 = MODERATE 3 = SERIOUS 4 = SEVERE

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

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.

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

Emergency Phone: 406-892-6200
 Other Information: 406-892-6312
 Revised Date: March 10, 2009
 Website: www.plumcreek.com

Signature of Person Responsible for Preparation:



SECTION 1: IDENTITY

Common Name (used on label) (Trade Name & Synonyms)	Glacier Green™, CPCG only High Density Fiberboard (HDF) Medium Density Fiberboard (MDF)	CAS No. 50-00-0	108-78-1
Chemical Name	N/A	Product Thickness	HDF ≥ 0.375 "
Formula	N/A		

SECTION 2: HAZARDOUS INGREDIENTS

Principal Hazardous Component(s) (chemical & common name(s))	% Solid Content by Dry Weight	Threshold Limit Value (units)
SOFT WOOD DUST (100 % PRE-CONSUMER RECYCLED WOOD FIBER)	87- 92 %	15.0 mg/m ³
UREA FORMALDEHYDE RESIN*	7 – 10 %	0.75 ppm
WAX (PARAFFIN) *	< 1 %	2.0 mg/m ³
MELAMINE*	> 1%	N/A
AMMONIA	1 %	50.0 ppm
*Formaldehyde content	< 0.1 %.	
*Wax and Melamine added to improve water resistance properties		

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 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	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	DEPENDING ON WOOD SPECIES, MAY CAUSE RESPIRATORY SENSITATION AND/OR IRRITATION. IARC CLASSIFIES WOOD DUST AS A CARCINOGEN TO HUMANS (GROUP 1)

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)	Other Exposure Limit Used	2.0 ppm STEL FORMALDEHYDE 0.5 ppm ACTION 35.0 ppm STEL AMMONIA
---------------------------------	-----------------------	---------------------	---------------------------	--

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

HMIS RATINGS: HEALTH: 1 FIRE: 0 PHYSICAL HAZARD: 0
SCALE: 0 = MINIMAL 1 = SLIGHT 2 = MODERATE 3 = SERIOUS 4 = SEVERE

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

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
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: May 28, 2008
Website: www.plumcreek.com

Signature of Person Responsible for Preparation:

SECTION 1: IDENTITY

Common Name (used on label) (Trade Name & Synonyms)	Glacier Clear™, NAF, NAUF	Cas No. 101-68-8	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 DUST (100 % PRE-CONSUMER RECYCLED WOOD FIBER)	89- 94 %	15.0 mg/m ³
METHYLENE-DIPHENYL-DIISOCYANAGE (MDI)	*5 – 10 %	0 .005 ppm (TWA)
PHENOL FORMALDEHYDE RESIN	**7- 10 %	0.3 ppm (CEILING)
WAX (PARAFFIN) ADDED TO IMPROVE WATER RESISTANT PROPERTIES	1 %	2.0 mg/m ³

*NAF contains no added formaldehyde

**NAUF contains no added urea formaldehyde

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 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 TAN COLORED SOLID PANEL.				
Flash Point	N/A	Flammable Limits in Air % by Volume	Lower N/A	Upper N/A	Extinguisher Media Water
Special Fire Fighting Procedures	SATURATE BOARD WITH WATER AND MOVE TO A SECURE OUTSIDE STORAGE LOCATION. AVOID BREATHING SMOKE.				
Unusual Fire and Explosion Hazards	AVOID DUST ACCUMULATIONS.				
				Auto-Ignition Temperature	400' – 500'F

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	CARBON MONOXIDE				
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	DEPENDING ON WOOD SPECIES, MAY CAUSE RESPIRATORY SENSITATION AND/OR IRRITATION. IARC CLASSIFIES WOOD DUST AS A CARCINOGEN TO HUMANS (GROUP 1)

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 [] 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 (C)	Other Exposure Limit Used
---------------------------------	---	---------------------	---------------------------

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

HMIS RATINGS: HEALTH: 1 FIRE: 0 PHYSICAL HAZARD: 0
SCALE: 0 = MINIMAL 1 = SLIGHT 2 = MODERATE 3 = SERIOUS 4 = SEVERE

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.

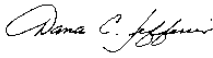
IMPORTANT

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.

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: May 1, 2008
 Website: www.plumcreek.com

SECTION 1: IDENTITY

Common Name (used on label) (Trade Name & Synonyms)	ULTRA-CORE HDF™	Cas No. 101-68-8	N/A
Chemical Name	N/A	Chemical Family	N/A
Formula	DOUGLAS FIR, WESTERN LARCH, HIGH DENSITY FIBERBOARD (HDF), PLYWOOD PANEL WITH FIBERBOARD FACE&BACK		
Signature of Person Responsible for Preparation			

SECTION 2: HAZARDOUS INGREDIENTS

Principal Hazardous Component(s) (chemical & common name(s))	% Solid Content by Weight	Threshold Limit Value (units)
SOFTWOOD WOOD DUST * Wood dust is currently listed as a probable human carcinogen but regulated as Particle Not Otherwise Classified (PNOC).	95%	15.0 mg/m ³
PHENOL FORMALDEHYDE RESIN FREE FORMALDEHYDE EMISSIONS *California Air Resources Board (CARB) Threshold 0.5ppm *Panels were tested using a "large chamber" method. *Ambient background formaldehyde levels are typically between 0.03 to 0.08 ppm. *These products easily meet or have been exempted from leading formaldehyde emissions standards and regulations. *NAUF contains no added urea formaldehyde		0.5 ppm (Action) 0.75 ppm (TLV) 2.0 ppm (STEL)
METHYLENE-DIPHENYL-DIISOCYANATE (MDI)	5 – 10 %	0 .005 ppm (TWA)
WAX (PARAFFIN) ADDED TO IMPROVE WATER RESISTANT PROPERTIES	1 %	2.0 mg/m ³

*There is no residual MDI remaining after pressing. MDI resin reacts forming polyurethane.

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 (%)		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 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	USE WATER TO THOROUGHLY WET ALL PANEL SURFACES AND TO SATURATE 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 PANEL SAWING, SANDING, MACHINING, ETC. MAY CREATE A SERIOUS FIRE AND EXPLOSION HAZARD.				

SECTION 4: PHYSICAL HAZARDS

Stability	Unstable <input type="checkbox"/> Stable <input checked="" type="checkbox"/>	Conditions to Avoid	DUST ACCUMULATIONS
-----------	---	---------------------	--------------------

Incompatibility (Materials to Avoid)	OXIDIZERS AND DRYING OILS.
---	----------------------------

Hazardous Decomposition Products	TOXIC FUMES AND GASES, INCLUDING CARBON MONOXIDE, ALDEHYDES AND ORGANIC ACIDS
-------------------------------------	---

Hazardous Polymerization	May Occur <input type="checkbox"/> Will Not Occur <input checked="" type="checkbox"/>	Conditions to Avoid	NONE
-----------------------------	--	------------------------	------

SECTION 5: HEALTH HAZARDS

Threshold Limit Value	15.0 mg/m ³ WOOD DUST (PNOC);
-----------------------	--

Signs and Symptoms of Exposure	1. Acute Overexposure	WOOD DUST IS A MECHANICAL IRRITANT TO EYES, NOSE AND THROAT
	2. Chronic Overexposure	SOME WOOD SPECIES MAY CAUSE ALLERGIC CONTACT DERMATITIS IN SENSITIZED INDIVIDUALS. SOME HARD WOOD SPECIES HAVE BEEN ASSOCIATED WITH CAUSING NASAL CANCER.

Medical Conditions Generally Aggravated by Exposure	PRE-EXISTING RESPIRATORY CONDITIONS
--	-------------------------------------

Chemical Listed as Carcinogen or Potential Carcinogen	WOOD DUST FORMALDEHYDE	National Toxicology Program	Yes <input type="checkbox"/> No <input type="checkbox"/>	I.A.R.C. Monographs	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	OSHA	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
---	---------------------------	--------------------------------	---	------------------------	--	------	--

OSHA Permissible Exposure Limit	15.0 mg/m ³ PNOC 0.75 ppm FORMALDEHYDE	Other Exposure Limit Used	10.0 mg/m ³ STEL WOOD DUST
------------------------------------	--	------------------------------	---------------------------------------

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 RESPIRATOR.
---	----------------------------

Ventilation	RECOMMENDED	Local Exhaust	RECOMMENDED	Mechanical (General)	AS NEEDED	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 MIINIMIZE DUST GENERATION. PROVIDE ADEQUATE VENTILATION USE NIOSH APPROVED RESPIRATOR.
--	---

Waste Disposal Methods	DISPOSE ACCORDING TO APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. ASHES ARE CORROSIVE.
------------------------	--

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
HIGH DENSITY OVERLAY



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
 Developed Date: June 9, 2008
 Website: www.plumcreek.com

Signature of Person Responsible for Preparation:

SECTION 1: IDENTITY

Common Name (used on label) (Trade Name & Synonyms)	HIGH DENSITY OVERLAY(HDO), CONCRETE FORM, OVERLAY PLYWOOD,	Cas No.	NONE
Chemical Name	N/A	Chemical Family	N/A
Formula	PRODUCT IS MADE BY COVERING ONE OR BOTH SIDES OF SOFTWOOD PLYWOOD WITH PAPER CONTAINING PHENOL FORMALDEHYDE RESIN AND ADHESIVES.		

SECTION 2: HAZARDOUS INGREDIENTS

Principal Hazardous Component(s) (chemical & common name(s))	%	Threshold Limit Value (units)
WOOD DUST		5.0 mg/m ³
FORMALDEHYDE	< 0.4 %	0.75 ppm
PHENOL	< 0.7 %	5.0 ppm
METHANOL	< 0.04 %	200 ppm

*Once applied, the overlay becomes inert.

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	PLYWOOD PANEL WITH LIGHT YELLOW COLORED PAPER, ON ONE OR BOTH SIDES							
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: USE WATER TO THOROUGHLY WET ALL PANEL SURFACES AND TO SATURATE WOOD DUST. REMOVE ANY CHARRED MATERIAL TO AN OPEN SECURE AREA TO ENSURE ALL FIRE IS EXTINGUISHED. EMITS TOXIC FUMES UNDER FIRE CONDITIONS. WEAR COMPLETE FIRE SERVICE PROTECTIVE EQUIPMENT INCLUDING SCBA OR OTHER NIOSH APPROVED RESPIRATORY PROTECTION.

Unusual Fire and Explosion Hazards: WOOD DUST GENERATED FROM PANEL SAWING, SANDING, MACHINING, ETC. MAY CREATE A SEVERE FIRE AND EXPLOSION HAZARD. COMBUSTION BY-PRODUCTS INCLUDING CARBON MONOXIDE.

SECTION 4: PHYSICAL HAZARDS

Stability	Unstable <input type="checkbox"/> Stable <input checked="" type="checkbox"/>	Conditions to Avoid
Incompatibility (Materials to Avoid)	STRONG ACIDS, OXIDIZING AGENTS AND DRYING OILS.	
Hazardous Decomposition Products	CARBON DIOXIDE, CARBON MONOXIDE	
Hazardous Polymerization	May Occur <input type="checkbox"/> Will Not Occur <input checked="" type="checkbox"/>	Conditions to Avoid

SECTION 5: HEALTH HAZARDS

Threshold Limit Value	5.0 mg/m ³ WOOD DUST; 0.75 PPM FORMALDEHYDE; 5.0 ppm PHENOL; 200 ppm METHANOL				
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. PRE-EXISTING RESPIRATORY CONDITIONS			
Medical Conditions Generally Aggravated by Exposure					
Chemical Listed as Carcinogen or Potential Carcinogen	National Toxicology Program	Yes [] No []	I.A.R.C. Monographs	Yes [x] No []	OSHA Yes [x] No []
OSHA Permissible Exposure Limit	15.0 mg/m ³ PNOC	Other Exposure Limit Used	10.0 mg/m ³ STEL WOOD DUST 0.5 ppm ACTION LEVEL FORMALDEHYDE 2.0 ppm STEL 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)	NIOSH APPROVED DUST RESPIRATOR.						
Ventilation	RECOMMENDED	Local Exhaust	RECOMMENDED	Mechanical (General)	AS NEEDED	Special	Other
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.						
H.M.I.S. RATINGS:							
HEALTH	1						
FLAMMABILITY	0						
REACTIVITY	0						

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.
Waste Disposal Methods	DISPOSE ACCORDING TO APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. ASHES ARE CORROSIVE.

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
**MEDIUM DENSITY OVERLAY
 CONCRETE FORM**



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
 Developed Date: June 9, 2008
 Website: www.plumcreek.com

Signature of Person Responsible for Preparation:

SECTION 1: IDENTITY

Common Name (used on label) (Trade Name & Synonyms)	MEDIUM DENSITY OVERLAY(MDO), CONCRETE FORM, CONFORM, OVERLAY PLYWOOD,	Cas No.	NONE
Chemical Name	N/A	Chemical Family	N/A
Formula	PRODUCT IS MADE BY COVERING ONE OR BOTH SIDES OF SOFTWOOD PLYWOOD WITH PAPER CONTAINING PHENOL FORMALDEHYDE RESIN AND ADHESIVES.		

SECTION 2: HAZARDOUS INGREDIENTS

Principal Hazardous Component(s) (chemical & common name(s))	%	Threshold Limit Value (units)
WOOD DUST		5.0 mg/m ³
FORMALDEHYDE	< 0.4 %	0.75 ppm
PHENOL	< 0.7 %	5.0 ppm
METHANOL	< 0.04 %	200 ppm

*Once applied, the overlay becomes inert.

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 PLYWOOD PANEL WITH MOTTLED BROWN APPEARANCE. PAPER ON ONE OR BOTH SIDES.

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 USE WATER TO THOROUGHLY WET ALL PANEL SURFACES AND TO SATURATE WOOD DUST. REMOVE ANY CHARRED MATERIAL TO AN OPEN SECURE AREA TO ENSURE ALL FIRE IS EXTINGUISHED. EMITS TOXIC FUMES UNDER FIRE CONDITIONS. WEAR COMPLETE FIRE SERVICE PROTECTIVE EQUIPMENT INCLUDING SCBA OR OTHER NIOSH APPROVED RESPIRATORY PROTECTION.

Unusual Fire and Explosion Hazards WOOD DUST GENERATED FROM PANEL SAWING, SANDING, MACHINING, ETC. MAY CREATE A SEVERE FIRE AND EXPLOSION HAZARD. COMBUSTION BY-PRODUCTS INCLUDING CARBON MONOXIDE.

SECTION 4: PHYSICAL HAZARDS

Stability	Unstable [] Stable [x]	Conditions to Avoid
Incompatibility (Materials to Avoid)	STRONG ACIDS, OXIDIZING AGENTS AND DRYING OILS.	
Hazardous Decomposition Products	CARBON DIOXIDE, 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 WOOD DUST; 0.75 PPM FORMALDEHYDE; 5.0 ppm PHENOL; 200 ppm METHANOL		
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. PRE-EXISTING RESPIRATORY CONDITIONS	
Medical Conditions Generally Aggravated by Exposure			
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 PNOC	Other Exposure Limit Used	10.0 mg/m ³ STEL WOOD DUST 0.5 ppm ACTION LEVEL FORMALDEHYDE 2.0 ppm STEL 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)	NIOSH APPROVED DUST RESPIRATOR.						
Ventilation	RECOMMENDED	Local Exhaust	RECOMMENDED	Mechanical (General)	AS NEEDED	Special	Other
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.						
H.M.I.S. RATINGS:							
HEALTH	1						
FLAMMABILITY	0						
REACTIVITY	0						

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 MIINIMIZE DUST GENERATION. PROVIDE ADEQUATE VENTILATION USE NIOSH APPROVED DUST RESPIRATOR.
Waste Disposal Methods	DISPOSE ACCORDING TO APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. ASHES ARE CORROSIVE.

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
**MEDIUM DENSITY OVERLAY
SIGN GRADE**



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
Developed Date: June 9, 2008
Website: www.plumcreek.com

Signature of Person Responsible for Preparation:

SECTION 1: IDENTITY

Common Name (used on label) (Trade Name & Synonyms)	MEDIUM DENSITY OVERLAY(MDO), SIGN GRADE, PAINT GRADE, OVERLAY PLYWOOD,	Cas No.	NONE
Chemical Name	N/A	Chemical Family	N/A
Formula	PRODUCT IS MADE BY COVERING ONE OR BOTH SIDES OF SOFTWOOD PLYWOOD WITH PAPER CONTAINING PHENOL FORMALDEHYDE RESIN AND ADHESIVES.		

SECTION 2: HAZARDOUS INGREDIENTS

Principal Hazardous Component(s) (chemical & common name(s))	%	Threshold Limit Value (units)
WOOD DUST		5.0 mg/m ³
FORMALDEHYDE	< 0.4 %	0.75 ppm
PHENOL	< 0.7 %	5.0 ppm
METHANOL	< 0.04 %	200 ppm

*Once applied, the overlay becomes inert.

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 PLYWOOD PANEL WITH KRAFT PAPER BROWN APPEARANCE. PAPER ON ONE OR BOTH SIDES.

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 USE WATER TO THOROUGHLY WET ALL PANEL SURFACES AND TO SATURATE WOOD DUST. REMOVE ANY CHARRED MATERIAL TO AN OPEN SECURE AREA TO ENSURE ALL FIRE IS EXTINGUISHED. EMITS TOXIC FUMES UNDER FIRE CONDITIONS. WEAR COMPLETE FIRE SERVICE PROTECTIVE EQUIPMENT INCLUDING SCBA OR OTHER NIOSH APPROVED RESPIRATORY PROTECTION.

Unusual Fire and Explosion Hazards WOOD DUST GENERATED FROM PANEL SAWING, SANDING, MACHINING, ETC. MAY CREATE A SEVERE FIRE AND EXPLOSION HAZARD. COMBUSTION BY-PRODUCTS INCLUDING CARBON MONOXIDE.

SECTION 4: PHYSICAL HAZARDS

Stability	Unstable <input type="checkbox"/> Stable <input checked="" type="checkbox"/>	Conditions to Avoid
-----------	---	---------------------

Incompatibility (Materials to Avoid) STRONG ACIDS, OXIDIZING AGENTS AND DRYING OILS.

Hazardous Decomposition Products CARBON DIOXIDE, CARBON MONOXIDE

Hazardous Polymerization	May Occur <input type="checkbox"/> Will Not Occur <input checked="" type="checkbox"/>	Conditions to Avoid
--------------------------	--	---------------------

SECTION 5: HEALTH HAZARDS

Threshold Limit Value	5.0 mg/m ³ WOOD DUST; 0.75 PPM FORMALDEHYDE; 5.0 ppm PHENOL; 200 ppm METHANOL		
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. PRE-EXISTING RESPIRATORY CONDITIONS	
Medical Conditions Generally Aggravated by Exposure			
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 PNOC	Other Exposure Limit Used	10.0 mg/m ³ STEL WOOD DUST 0.5 ppm ACTION LEVEL FORMALDEHYDE 2.0 ppm STEL 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)	NIOSH APPROVED DUST RESPIRATOR.						
Ventilation	RECOMMENDED	Local Exhaust	RECOMMENDED	Mechanical (General)	AS NEEDED	Special	Other
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.						
H.M.I.S. RATINGS:							
HEALTH	1						
FLAMMABILITY	0						
REACTIVITY	0						

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 MIINIMIZE DUST GENERATION. PROVIDE ADEQUATE VENTILATION USE NIOSH APPROVED DUST RESPIRATOR.
Waste Disposal Methods	DISPOSE ACCORDING TO APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. ASHES ARE CORROSIVE.

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
PLYWOOD



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: April 4, 2008
 Website: www.plumcreek.com

SECTION 1: IDENTITY

Common Name (used on label) (Trade Name & Synonyms)	SOFTWOOD PLYWOOD	Cas No.	N/A
Chemical Name	N/A	Chemical Family	N/A
Formula	DOUGLAS FIR, WESTERN LARCH		

Signature of Person Responsible for Preparation 

SECTION 2: HAZARDOUS INGREDIENTS

Principal Hazardous Component(s) (chemical & common name(s))	Threshold Limit Value (units)
SOFTWOOD WOOD DUST * Wood dust is currently listed as a probable human carcinogen but regulated as Particle Not Otherwise Classified (PNOC).	15.0 mg/m ³
PHENOL FORMALDEHYDE RESIN FREE FORMALDEHYDE EMISSIONS *California Air Resources Board (CARB) *Panels were tested using a "large chamber" method. *Ambient background formaldehyde levels are typically between 0.03 to 0.08 ppm. *These products easily meet or have been exempted from leading formaldehyde emissions standards and regulations. *NAUF contains no added urea formaldehyde	CARB Threshold < 0.5ppm Actual .048 ppm 0.5 ppm (Action) 0.75 ppm (TLV) 2.0 ppm (STEL)

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 (%)		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 PANEL WITH AROMATIC ODOR.				
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: USE WATER TO THOROUGHLY WET ALL PANEL SURFACES AND TO SATURATE 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 PANEL SAWING, SANDING, MACHINING, ETC. MAY CREATE A SEVERE FIRE AND EXPLOSION HAZARD.

SECTION 4: PHYSICAL HAZARDS

Stability	Unstable [] Stable [x]	Conditions to Avoid
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 WOOD DUST			
Signs and Symptoms of Exposure	1. Acute Overexposure	WOOD DUST IS A MECHANICAL IRRITANT TO EYES, NOSE AND THROAT.		
	2. Chronic Overexposure	SOME WOOD SPECIES MAY CAUSE ALLERGIC CONTACT DERMATITIS IN SENSITIZED INDIVIDUALS		
Medical Conditions Generally Aggravated by Exposure	PRE-EXISTING RESPIRATORY 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	15.0 mg/m ³ PNOC 0.75 ppm FORMALDEHYDE		Other Exposure Limit Used	10.0 mg/m ³ STEL WOOD DUST
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)	NIOSH APPROVED DUST RESPIRATOR.								
Ventilation	RECOMMENDED	Local Exhaust	RECOMMENDED	Mechanical (General)	AS NEEDED	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 MIINIMIZE DUST GENERATION. PROVIDE ADEQUATE VENTILATION USE NIOSH APPROVED RESPIRATOR.
Waste Disposal Methods	DISPOSE ACCORDING TO APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. ASHES ARE CORROSIVE.

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.

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: June 9, 2008
Website: www.plumcreek.com

Signature of Person Responsible for Preparation: *Diana C. Jefferson*

SECTION 1: IDENTITY

Common Name (used on label) (Trade Name & Synonyms)	CONCRETE FORMS	Cas No.	N/A
Chemical Name	PETROLEUM BASED RELEASE AGENT	Chemical Family	N/A
Formula	SOFTWOOD PLYWOOD COATED WITH OIL ON BOTH SIDES AND ALL EDGES.		

SECTION 2: HAZARDOUS INGREDIENTS

Principal Hazardous Component(s) (chemical & common name(s))	%	Threshold Limit Value (units)
SOFTWOOD WOOD DUST		5.0 mg/m ³
PHENOL FORMALDEHYDE RESIN	1.0 – 8.0%	
FREE FORMALDEHYDE		<0.1 ppm
NOX-CRETE FORM COATING	Appl. Rate	1,000 SF/US Gal. 5.0 mg/m ³

*Fatty materials in a light petroleum base

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 PANEL WITH AROMATIC ODOR. OIL COATING IS A CLEAR LIGHT STRAW COLOR WITH A CHARACTERISTIC ODOR.							
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	USE WATER TO THOROUGHLY WET ALL PANEL SURFACES AND TO SATURATE 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 PANEL 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 WOOD DUST, 5.0 mg/m ³ OIL MIST			
Signs and Symptoms of Exposure	1. Acute Overexposure	WOOD DUST IS A MECHANICAL IRRITANT TO EYES, NOSE AND THROAT.		
	2. Chronic Overexposure	SOME WOOD SPECIES MAY CAUSE ALLERGIC CONTACT DERMATITIS IN SENSITIZED INDIVIDUALS		
Medical Conditions Generally Aggravated by Exposure	PRE-EXISTING RESPIRATORY 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	15.0 mg/m ³ PNOG 0.75 ppm FORMALDEHYDE		Other Exposure Limit Used	5.0 mg/m ³ OIL MIST
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)	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	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 RESPIRATOR AND GOGGLES TO CONTROL EXPOSURE.
Waste Disposal Methods	DISPOSE ACCORDING TO APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. WOOD ASH IS CORROSIVE.

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
PRESSURE TREATED PLYWOOD



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: June 9, 2008
 Website: www.plumcreek.com

Signature of Person Responsible for Preparation:

SECTION 1: IDENTITY

Common Name (used on label) (Trade Name & Synonyms)	MARINETECH, PTP, MARINE DECK	Cas No.	N/A
Chemical Name	N/A	Chemical Family	N/A
Formula	DOUGLAS FIR, WESTERN LARCH		

SECTION 2: HAZARDOUS INGREDIENTS

Principal Hazardous Component(s) (chemical & common name(s))	%	Threshold Limit Value (units)
SOFTWOOD WOOD DUST		5.0 mg/m ³
PHENOL FORMALDEHYDE RESIN	1.0 – 8.0%	
*FREE FORMALDEHYDE		<0.1 ppm
CCA PRESSURE TREATED WOOD	[.25 – 2.5 PCF]	
*CHROMIUM (III)	<5.0%	0.5 mg/m ³
*COPPER	<5.0%	1.0 mg/m ³
*ARSENIC (V)	<5.0%	.2mg/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 (%)		Vapor Density (Air=1)	N/A	Evaporation Rate (_____ = 1)	N/A			
Solubility In Water	INSOLUBLE	Reactivity in Water	N/A					
Appearance and Odor	LIGHT BROWN OR TAN PANELS WITH A SLIGHT GREENISH-BLUE TO BROWN TINT							
Flash Point	N/A	Flammable Limits in Air % by Volume	Lower N/A	Upper N/A	Extinguisher Media	Water, CO ₂ , Sand	Auto-Ignition Temperature	400' – 500' F
Special Fire Fighting Procedures	USE WATER TO THOROUGHLY WET ALL PANEL SURFACES AND TO SATURATE WOOD DUST. REMOVE ANY CHARRED MATERIAL TO AN OPEN SECURE AREA TO ENSURE ALL FIRE IS EXTINGUISHED. EMITS TOXIC FUMES UNDER FIRE CONDITIONS. WEAR COMPLETE FIRE SERVICE PROTECTIVE EQUIPMENT INCLUDING SCBA OR OTHER NIOSH APPROVED RESPIRATORY PROTECTION.							
Unusual Fire and Explosion Hazards	WOOD DUST GENERATED FROM PANEL SAWING, SANDING, MACHINING, ETC. MAY CREATE A SEVERE FIRE AND EXPLOSION HAZARD. COMBUSTION BY-PRODUCTS INCLUDE CARBON MONOXIDE, OXIDES OF NITROGEN, CHROMIUM AND ARSENIC. HEAVY METALS MAY REMAIN IN THE ASH OR BE RELEASED INTO THE AIR.							

SECTION 4: PHYSICAL HAZARDS

Stability	Unstable [] Stable [x]	Conditions to Avoid	
Incompatibility (Materials to Avoid)	STRONG ACIDS, OXIDIZING AGENTS AND DRYING OILS.		
Hazardous Decomposition Products	CARBON MONOXIDE, OXIDES OF NITROGEN, CHROMIUM, ARSENIC, & OTHER TOXIC FUMES AND GASES		
Hazardous Polymerization	May Occur [] Will Not Occur [x]	Conditions to Avoid	N/A

SECTION 5: HEALTH HAZARDS

Threshold Limit Value	5.0 mg/m ³ WOOD DUST, 0.5 mg/m ³ CHROMIUM, 1.0 mg/m ³ COPPER, 0.2 mg/m ³ ARSENIC			
Signs and Symptoms of Exposure	1. Acute Overexposure	DERMATITIS; EYES, NOSE, THROAT IRRITATION		
	2. Chronic Overexposure	CONTACT DERMATITIS; LIVER, KIDNEY, SPLEEN DAMAGE; RESPIRATORY IRRITATION; NASAL ULCERATIONS		
Medical Conditions Generally Aggravated by Exposure	PRE-EXISTING RESPIRATORY CONDITIONS *WARNING: THIS PRODUCT CONTAINS CHEMICALS LISTED AS CARCINOGENS			
Chemical Listed as Carcinogen or Potential Carcinogen	CHROMIUM (III)	National Toxicology Program Yes [] No []	I.A.R.C. Monographs Yes [x] No []	OSHA Yes [x] No []
OSHA Permissible Exposure Limit	15.0 mg/m ³ Wood dust 0.5 mg/m ³ Cr (III), 1.0 mg/m ³ Cu 0.5 mg/m ³ As	Other Exposure Limit Used		

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	REQUIRED	Local Exhaust RECOMMENDED	Mechanical (General) RECOMMENDED	Special	Other AVOID CREATING DUST
Protective Gloves	RECOMMENDED TO PREVENT SLIVERS, IMPERVIOUS GLOVES IF MOISTURE IS PRESENT		Eye Protection	DUST GOGGLES AND/OR SAFETY GLASSES	
Other Protective Clothing or Equipment	IF SAWDUST ACCUMULATES ON CLOTHES, GLOVES, ETC., LAUNDRER SEPARATELY BEFORE REUSE.				

SECTION 7: SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling and Storage	NO SPECIAL STORAGE REQUIRED ONCE PANELS ARE DRY. THIS PRODUCT MUST NOT COME IN CONTACT WITH FOOD OR FEED. DO NOT USE TREATED WOOD FOR CUTTING BOARDS OR COUNTER TOPS.
Other Precautions	DO NOT USE TREATED WOOD FOR CONSTRUCTION OF BEEHIVES. OBSERVE GOOD HYGIENE AND SAFETY PRACTICES WHEN HANDLING THIS PRODUCT. WASH EXPOSED AREAS PROMPTLY AND THOROUGHLY AFTER SKIN CONTACT FROM WORKING WITH THIS PRODUCT AND BEFORE EATING, DRINKING, USING TABACCO PRODUCTS.
Steps to be Taken in Case Material is Released or Spilled	CONTROL RELEASES OF AIRBORNE WOOD DUST. TREATED WOOD SHOULD NOT BE USED WHERE IT MAY COME INTO CONTACT WITH DRINKING WATER SOURCES.
Waste Disposal Methods	DO NOT BURN TREATED WOOD IN OPEN FIRES, STOVES, OR FIRE PLACES. THE METALS USED FOR TREATING ARE LISTED EPA TOXIC MATERIALS. DISPOSE SAWDUST ACCORDING TO APPLICABLE FEDERAL/STATE/LOCAL REGULATIONS. ASH WILL CONTAIN TOXIC MATERIALS.

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



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: June 11, 2008
 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, , DOUGLAS FIR, WESTERN LARCH, ENGLEMAN SPRUCE and GRAND FIR.		

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	100%	5.0 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 N/A	Upper N/A	Extinguisher Media Water	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 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.	
Medical Conditions Generally Aggravated by Exposure	PRE-EXISTING RESPIRATORY CONDITIONS MAY BE AGGREGATED BY REPEATED OR PROLONGED EXPOSURE TO WOOD DUST.		
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:			
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)	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 MIINIMIZE 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

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.