SECTION 1: IDENTITY

Common Name (used on label) (Trade Name & Synonyms) Medium Density Fiberboard, High Density Fiberboard
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/m³
- UREA-FORMALDEHYDE RESIN *7-10% 0.75 ppm
  *THIS PRODUCT MAY CONTAIN GREATER THAN 0.1% FORMALDEHYDE
- WAX (PARAFFIN) <1% 2.0 mg/m³
  **Some formulations contain wax to improve moisture resistance properties
- AMMONIA <1% 25.0 ppm
  ****Some thicker (>1/4”) products are treated with ammonia after they are manufactured to further reduce formaldehyde emissions.

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

Boiling Point N/A Specific Gravity (H₂O=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 TAN COLORED SOLID PANEL

SECTION 4: PHYSICAL HAZARDS

Stability Unstable [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 [x] Conditions to Avoid NONE
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 AVOID DUST ACCUMULATIONS, HOT SURFACES, SPARKS OR OPEN FLAMES. WOOD DUST IS POTENTIALLY EXPLOSIVE.

Signature of Person Responsible for Preparation:
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: FORMALDEHYDE IS LISTED 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 [x]
- I.A.R.C. Monographs: Yes [x]
- OSHA: Yes [x]

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.

HMIS
- HEALTH: 1
- FLAMMABILITY: 0
- REACTIVITY: 0

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
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: April 18, 2008
Website: www.plumcreek.com

Signature of Person Responsible for Preparation:

SECTION 1: IDENTITY

<table>
<thead>
<tr>
<th>Common Name (used on label) (Trade Name &amp; Synonyms)</th>
<th>Glacier Green™</th>
<th>Cas No. 50-00-0</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Name</td>
<td>N/A</td>
<td>Chemical Family</td>
<td>N/A</td>
</tr>
<tr>
<td>Formula</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION 2: HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>Principal Hazardous Component(s) (chemical &amp; common name(s))</th>
<th>% Solid Content by Weight</th>
<th>Threshold Limit Value (units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOFT WOOD DUST (100 % PRE-CONSUMER RECYCLED WOOD FIBER)</td>
<td>87 - 92 %</td>
<td>15.0 mg/m³</td>
</tr>
<tr>
<td>UREA FORMALDEHYDE RESIN</td>
<td>7 – 10 %</td>
<td>0.75 ppm</td>
</tr>
<tr>
<td>AMMONIA</td>
<td>1 %</td>
<td>50.0 ppm</td>
</tr>
<tr>
<td>WAX (PARAFFIN) ADDED TO IMPROVE WATER RESISTANT PROPERTIES</td>
<td>&lt; 1 %</td>
<td>2.0 mg/m³</td>
</tr>
</tbody>
</table>

** The odor of ammonia may be detectable in hot or humid environments.

*** Glacier Green is post treated with anhydrous ammonia lowering free-formaldehyde emissions.

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

<table>
<thead>
<tr>
<th>Boiling Point</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific Gravity (H₂O=1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg)</td>
<td>N/A</td>
</tr>
<tr>
<td>Percent Volatile By Volume (%)</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density (Air=1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility In Water</td>
<td>N/A</td>
</tr>
<tr>
<td>Reactivity in Water</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Appearance and Odor: LIGHT TAN COLORED SOLID PANEL.

<table>
<thead>
<tr>
<th>Flash Point</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable Limits in Air % by Volume Lower N/A Upper N/A</td>
<td></td>
</tr>
<tr>
<td>Lower N/A</td>
<td>Upper N/A</td>
</tr>
<tr>
<td>Extinguisher Media</td>
<td>Water,</td>
</tr>
<tr>
<td>Auto-Ignition Temperature</td>
<td>400 – 500 °F</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Stability</th>
<th>Unstable [ ] Stable [x]</th>
<th>Conditions to Avoid PYROLYSIS MAY OCCUR. AVOID DUST ACCUMULATIONS ON HOT SURFACES.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incompatibility (Materials to Avoid)</td>
<td>STRONG OXIDIZING AGENTS, STRONG ACIDS</td>
<td></td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>TOXIC FUMES AND GASES, INCLUDING CARBON MONOXIDE, ALDEHYDES AND ORGANIC ACIDS.</td>
<td></td>
</tr>
<tr>
<td>Hazardous Polymerization May Occur [ ] Will Not Occur [x]</td>
<td>Conditions to Avoid NONE</td>
<td></td>
</tr>
</tbody>
</table>
SECTION 5: HEALTH HAZARDS

Threshold Limit Value

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 [x]

I.A.R.C. Monographs [ ]
- Yes [x]

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 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.
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

<table>
<thead>
<tr>
<th>Common Name (used on label)</th>
<th>Glacier Clear™, NAF, NAUF</th>
<th>Cas No.</th>
<th>101-68-8</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Name</td>
<td>N/A</td>
<td>Chemical Family</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Formula</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### SECTION 2: HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>Principal Hazardous Component(s) (chemical &amp; common name(s))</th>
<th>% Solid Content by Weight</th>
<th>Threshold Limit Value (units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOFT WOOD DUST (100 % PRE-CONSUMER RECYCLED WOOD FIBER)</td>
<td>89–94 %</td>
<td>15.0 mg/m³</td>
</tr>
<tr>
<td>METHYLENE-DIPHENYL-DIISOCYANAGE (MDI)</td>
<td>*5 – 10 %</td>
<td>0.005 ppm (TWA)</td>
</tr>
<tr>
<td>PHENOL FORMALDEHYDE RESIN</td>
<td>**7–10 %</td>
<td>0.3 ppm (CEILING)</td>
</tr>
<tr>
<td>WAX (PARAFFIN) ADDED TO IMPROVE WATER RESISTANT PROPERTIES</td>
<td>1 %</td>
<td>2.0 mg/m³</td>
</tr>
</tbody>
</table>

*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)

<table>
<thead>
<tr>
<th>Boiling Point</th>
<th>N/A</th>
<th>Specific Gravity (H₂O=1)</th>
<th>N/A</th>
<th>Vapor Pressure (mm Hg)</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent Volatile By Volume (%)</td>
<td>N/A</td>
<td>Vapor Density (Air=1)</td>
<td>N/A</td>
<td>Evaporation Rate (_______ = 1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility In Water</td>
<td>N/A</td>
<td>Reactivity in Water</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>LIGHT TAN COLORED SOLID PANEL.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>N/A</td>
<td>Flammable Limits in Air % by Volume</td>
<td>Lower N/A</td>
<td>Upper N/A</td>
<td>Extinguisher Media</td>
</tr>
<tr>
<td>Special Fire Fighting Procedures</td>
<td>SATURATE BOARD WITH WATER AND MOVE TO A SECURE OUTSIDE STORAGE LOCATION. AVOID BREATHING SMOKE.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unusual Fire and Explosion Hazards</td>
<td>AVOID DUST ACCUMULATIONS.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### SECTION 4: PHYSICAL HAZARDS

<table>
<thead>
<tr>
<th>Stability</th>
<th>Unstable [ ]</th>
<th>Stable [x]</th>
<th>Conditions to Avoid</th>
<th>PYROLYSIS MAY OCCUR. AVOID DUST ACCUMULATIONS ON HOT SURFACES.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incompatibility (Materials to Avoid)</td>
<td>STRONG OXIDIZING AGENTS, STRONG ACIDS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>CARBON MONOXIDE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hazardous Polymerization</td>
<td>May Occur [ ]</td>
<td>Conditions to Avoid</td>
<td>NONE</td>
<td></td>
</tr>
<tr>
<td>Will Not Occur</td>
<td>[x]</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Note:** The above text is a structured representation of the provided document, formatted to ensure readability and coherence in a natural language context.
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

| 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 | ACGIH Threshold (C) Other Exposure Limit Used |
| FORMALDEHYDE 0.75 ppm |

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. |
| STORE IN A COOL, DRY PLACE AWAY FROM OPEN FLAME, SPARKS OR HOT SURFACES. |
| VACUUM, SWEEP, OR SHOVEL TO MINIMIZE DUST GENERATION. PROVIDE ADEQUATE VENTILATION. |
| 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.
Material Safety Data Sheet
BBO & ES

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) CONCRETE FORMS
Chemical Name PETROLEUM BASED RELEASE AGENT
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/m³
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/m³

*Fatty materials in a light petroleum base

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

Boiling Point N/A Specific Gravity (H₂O=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
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

<table>
<thead>
<tr>
<th>Threshold Limit Value</th>
<th>5.0 mg/m³ WOOD DUST, 5.0 mg/m³ OIL MIST</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signs and Symptoms of Exposure</td>
<td></td>
</tr>
<tr>
<td>1. Acute Overexposure</td>
<td>WOOD DUST IS A MECHANICAL IRRITANT TO EYES, NOSE AND THROAT.</td>
</tr>
<tr>
<td>2. Chronic Overexposure</td>
<td>SOME WOOD SPECIES MAY CAUSE ALLERGIC CONTACT DERMATITIS IN SENSITIZED INDIVIDUALS</td>
</tr>
<tr>
<td>Medical Conditions Generally Aggravated by Exposure</td>
<td>PRE-EXISTING RESPIRATORY CONDITIONS</td>
</tr>
<tr>
<td>Chemical Listed as Carcinogen or Potential Carcinogen</td>
<td></td>
</tr>
<tr>
<td>WOOD DUST</td>
<td>FORMALDEHYDE</td>
</tr>
<tr>
<td>National Toxicology Program</td>
<td>Yes [ ]</td>
</tr>
<tr>
<td>I.A.R.C. Monographs</td>
<td>Yes [x]</td>
</tr>
<tr>
<td>OSHA</td>
<td>Yes [x]</td>
</tr>
<tr>
<td>OSHA Permissible Exposure Limit</td>
<td>15.0 mg/m³ PNOC</td>
</tr>
<tr>
<td>Other Exposure Limit Used</td>
<td>0.75 ppm FORMALDEHYDE</td>
</tr>
<tr>
<td>Emergency and First Aid Procedures:</td>
<td></td>
</tr>
<tr>
<td>1. Inhalation</td>
<td>EXPOSURE TO EXCESSIVE CONCENTRATIONS MAY CAUSE UNPLEASANT DEPOSITION IN THE NASAL PASSAGE RESULTING IN DRYNESS, COUGH AND HEADACHE. AVOID BREATHING DUST, REMOVE FROM EXPOSURE.</td>
</tr>
<tr>
<td>2. Eyes</td>
<td>MAY MECHANICALLY IRRITATE EYES RESULTING IN REDNESS OR WATERING. FLUSH WITH CLEAN WATER TO REMOVE PARTICLES. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.</td>
</tr>
<tr>
<td>3. Skin</td>
<td>MAY ELICIT CONTACT DERMATITIS IN SENSITIZED INDIVIDUALS OR CAUSE MECHANICAL IRRITATION. IF IRRITATION OR DERMATITIS DEVELOPS, SEEK MEDICAL ATTENTION.</td>
</tr>
<tr>
<td>4. Ingestion</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### SECTION 6: SPECIAL PROTECTION INFORMATION

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

### SECTION 7: SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

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

**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
ULTRA-CORE HDF™

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

<table>
<thead>
<tr>
<th>Common Name (used on label)</th>
<th>ULTRA-CORE HDF™</th>
<th>Cas No.</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Name</td>
<td>N/A</td>
<td>Chemical Family</td>
<td>N/A</td>
</tr>
<tr>
<td>Formula</td>
<td>DOUGLAS FIR, WESTERN LARCH, HIGH DENSITY FIBERBOARD (HDF), PLYWOOD PANEL WITH FIBERBOARD FACE&amp;BACK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Signature of Person</td>
<td></td>
<td>Responsible for Preparation</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 2: HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>Principal Hazardous Component(s) (chemical &amp; common name(s))</th>
<th>% Solid Content by Weight</th>
<th>Threshold Limit Value (units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOFTWOOD WOOD DUST</td>
<td>95%</td>
<td>15.0 mg/m³</td>
</tr>
<tr>
<td>* Wood dust is currently listed as a probable human carcinogen but regulated as Particle Not Otherwise Classified (PNOC).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHENOL FORMALDEHYDE RESIN</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FREE FORMALDEHYDE EMISSIONS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*California Air Resources Board (CARB) Threshold 0.5ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*Panels were tested using a “large chamber” method.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*Ambient background formaldehyde levels are typically between 0.03 to 0.08 ppm.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*These products easily meet or have been exempted from leading formaldehyde emissions standards and regulations.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*NAUF contains no added urea formaldehyde</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METHYLENE-DIPHENYL-DIISOCYANAGE (MDI)</td>
<td>5 – 10 %</td>
<td>0.005 ppm (TWA)</td>
</tr>
<tr>
<td>WAX (PARAFFIN) ADDED TO IMPROVE WATER RESISTANT PROPERTIES</td>
<td>1 %</td>
<td>2.0 mg/m³</td>
</tr>
<tr>
<td>*There is no residual MDI remaining after pressing. MDI resin reacts forming polyurethane.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Boiling Point</th>
<th>N/A</th>
<th>Specific Gravity (H₂O=1)</th>
<th>N/A</th>
<th>Vapor Pressure (mm Hg)</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent Volatile By Volume (%)</td>
<td>Vapor Density (Air=1)</td>
<td>N/A</td>
<td>Evaporation Rate (________= 1)</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Solubility In Water</td>
<td>N/A</td>
<td>Reactivity in Water</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>LIGHT BROWN PANEL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>N/A</td>
<td>Flammable Limits in Air % by Volume</td>
<td>Lower N/A</td>
<td>Upper N/A</td>
<td>Extinguisher Media</td>
</tr>
<tr>
<td>Special Fire Fighting Procedures</td>
<td>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.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unusual Fire and Explosion Hazards</td>
<td>WOOD DUST GENERATED FROM PANEL SAWING, SANDING, MACHINING, ETC. MAY CREATE A SERIOUS FIRE AND EXPLOSION HAZARD.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## SECTION 4: PHYSICAL HAZARDS

<table>
<thead>
<tr>
<th>Stability</th>
<th>Unstable</th>
<th>Stable</th>
<th>Conditions to Avoid</th>
<th>DUST ACCUMULATIONS</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Incompatibility</th>
<th>OXIDIZERS AND DRYING OILS.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Hazardous Decomposition Products</th>
<th>TOXIC FUMES AND GASES, INCLUDING CARBON MONOXIDE, ALDEHYDES AND ORGANIC ACIDS</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Polymerization</th>
<th>May Occur</th>
<th>Will Not Occur</th>
<th>Conditions to Avoid</th>
<th>NONE</th>
</tr>
</thead>
</table>

## SECTION 5: HEALTH HAZARDS

### Threshold Limit Value

- **15.0 mg/m³** **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 [ ]
- No [ ]

### I.A.R.C. Monographs

- Yes [x]
- No [ ]

### OSHA

- Yes [x]
- No [ ]

### OSHA Permissible Exposure Limit

- **15.0 mg/m³** **PNOC**
- **0.75 ppm** **FORMALDEHYDE**

### Other Exposure Limit Used

- **10.0 mg/m³** **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 MINIMIZE 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

SECTION 1: IDENTITY

Common Name (used on label) (Trade Name & Synonyms)
HIGH DENSITY OVERLAY (HDO), CONCRETE FORM, OVERLAY PLYWOOD.

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/m³

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 (H₂O=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 [ ] 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 [ ] Conditions to Avoid
SECTION 5: HEALTH HAZARDS

Threshold Limit Value

5.0 mg/m³ 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

<table>
<thead>
<tr>
<th>Chemical Listed as Carcinogen or Potential Carcinogen</th>
<th>National Toxicology Program</th>
<th>I.A.R.C. Monographs</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yes [ ]</td>
<td>Yes [x]</td>
<td>Yes [x]</td>
</tr>
</tbody>
</table>

OSHA Permissible Exposure Limit

15.0 mg/m³ PNOC Other Exposure Limit Used

10.0 mg/m³ 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.
SECTION 1: IDENTIFICATION

Common Name (used on label) (Trade Name & Synonyms): MEDIUM DENSITY OVERLAY (MDO), CONCRETE FORM, CONFORM, OVERLAY PLYWOOD, OVERLAY PLATE
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/m³
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 (H₂O=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 [ ] Conditions to Avoid Will Not Occur [x] to Avoid
SECTION 5: HEALTH HAZARDS

Threshold Limit Value
5.0 mg/m³ 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 [ ]
I.A.R.C. Monographs Yes [x]
OSHA Yes [x]

OSHA Permissible Exposure Limit 15.0 mg/m³ PNOC
Other Exposure Limit Used
10.0 mg/m³ 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
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

<table>
<thead>
<tr>
<th>Common Name (used on label) (Trade Name &amp; Synonyms)</th>
<th>MEDIUM DENSITY OVERLAY(MDO), SIGN GRADE, PAINT GRADE, OVERLAY PLYWOOD,</th>
<th>Cas No.</th>
<th>NONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Name</td>
<td>N/A</td>
<td>Chemical Family</td>
<td>N/A</td>
</tr>
</tbody>
</table>
| 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

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<thead>
<tr>
<th>Principal Hazardous Component(s) (chemical &amp; common name(s))</th>
<th>%</th>
<th>Threshold Limit Value (units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WOOD DUST</td>
<td>5.0 mg/m³</td>
<td></td>
</tr>
<tr>
<td>FORMALDEHYDE</td>
<td>&lt; 0.4 %</td>
<td>0.75 ppm</td>
</tr>
<tr>
<td>PHENOL</td>
<td>&lt; 0.7 %</td>
<td>5.0 ppm</td>
</tr>
<tr>
<td>METHANOL</td>
<td>&lt; 0.04 %</td>
<td>200 ppm</td>
</tr>
</tbody>
</table>

*Once applied, the overlay becomes inert.

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

<table>
<thead>
<tr>
<th>Boiling Point</th>
<th>N/A</th>
<th>Specific Gravity (H₂O=1)</th>
<th>N/A</th>
<th>Vapor Pressure (mm Hg)</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent Volatile By Volume (%)</td>
<td>N/A</td>
<td>Vapor Density (Air=1)</td>
<td>N/A</td>
<td>Evaporation Rate (_______= 1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility In Water</td>
<td>N/A</td>
<td>Reactivity in Water</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>PLYWOOD PANEL WITH KRAFT PAPER BROWN APPEARANCE. PAPER ON ONE OR BOTH SIDES.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>N/A</td>
<td>Flammable Limits in Air % by Volume</td>
<td>Lower N/A</td>
<td>Upper N/A</td>
<td>Extinguisher Media</td>
</tr>
</tbody>
</table>

| 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

<table>
<thead>
<tr>
<th>Stability</th>
<th>Unstable [ ]</th>
<th>Stable [x]</th>
<th>Conditions to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incompatibility (Materials to Avoid)</td>
<td>STRONG ACIDS, OXIDIZING AGENTS AND DRYING OILS.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>CARBON DIOXIDE, CARBON MONOXIDE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hazardous Polymerization</td>
<td>May Occur [ ]</td>
<td>Conditions to Avoid</td>
<td></td>
</tr>
<tr>
<td>Polymerization</td>
<td>Will Not Occur [x]</td>
<td>Conditions to Avoid</td>
<td></td>
</tr>
</tbody>
</table>
SECTION 5: HEALTH HAZARDS

Threshold Limit Value
5.0 mg/m³ 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 [ ]
I.A.R.C. Yes [x]
OSHA Yes [x]

OSHA Permissible Exposure Limit 15.0 mg/m³ PNOC
Other Exposure Limit Used
10.0 mg/m³ 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

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
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) SOFTWOOD PLYWOOD
(Trade Name & Synonyms)
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 15.0 mg/m³
* Wood dust is currently listed as a probable human carcinogen but regulated as Particle Not Otherwise Classified (PNOC).

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 (H₂O=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.

Flash Point N/A Flammable Limits in Air % by Volume Lower N/A Upper N/A Extinguisher Media Water, Auto-Ignition Temperature

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/m³ 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
<table>
<thead>
<tr>
<th>WOOD DUST</th>
<th>FORMALDEHYDE</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>National Toxicology Program</th>
<th>Yes [ ]</th>
<th>I.A.R.C. Monographs</th>
<th>Yes [x]</th>
</tr>
</thead>
</table>

OSHA Permissible Exposure Limit 15.0 mg/m³ PNOC
0.75 ppm 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 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 MINIMIZE 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
PRESSURE TREATED PLYWOOD

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

Signature of Person Responsible for Preparation: [Signature]

Emergency Phone:  406-892-6200
Other Information:  406-892-6312
Revised Date:            June 9, 2008
Website:  www.plumcreek.com

SECTION 1:  IDENTITY

Common Name (used on label) (Trade Name & Synonyms) MARINETECH, PTP, MARINE DECK
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/m³
PHENOL FORMALDEHYDE RESIN 1.0 – 8.0%
*FREE FORMALDEHYDE <0.1 ppm
CCA PRESSURE TREATED WOOD [.25 – 2.5 PCF] <5.0% 0.5 mg/m³
*CHROMIUM (III) <5.0% 1.0 mg/m³
*COPPER <5.0% .2mg/m³
*ARSENIC (V) <5.0%

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

Boiling Point N/A Specific Gravity (H₂O=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

SECTION 4: PHYSICAL HAZARDS

Stability Unstable [ ] Stable [x]
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]

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 5: HEALTH HAZARDS

Threshold Limit Value
5.0 mg/m³ WOOD DUST, 0.5 mg/m³ CHROMIUM, 1.0 mg/m³ COPPER, 0.2 mg/m³ 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

<table>
<thead>
<tr>
<th>Chemical</th>
<th>National Toxicology Program</th>
<th>I.A.R.C. Monographs</th>
<th>OSHA</th>
<th>Permissible Exposure Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHROMIUM (III)</td>
<td>Yes [X]</td>
<td>No [ ]</td>
<td>Yes [X]</td>
<td>15.0 mg/m³ Wood dust</td>
</tr>
<tr>
<td>Cr (III), 0.5 mg/m³</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cu 1.0 mg/m³</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>As 0.5 mg/m³</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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., LAUNDER 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

<table>
<thead>
<tr>
<th>Common Name (used on label) (Trade Name &amp; Synonyms)</th>
<th>SANDER DUST, SAW DUST</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Name</td>
<td>N/A</td>
</tr>
<tr>
<td>Chemical Family</td>
<td>N/A</td>
</tr>
<tr>
<td>Formula</td>
<td>MAY CONSIST OF THE FOLLOWING SPECIES: PONDEROSA PINE, LODGEPOLE PINE, DOUGLAS FIR, WESTERN LARCH, ENGLEMAN SPRUCE and GRAND FIR.</td>
</tr>
<tr>
<td>Cas No.</td>
<td>N/A</td>
</tr>
</tbody>
</table>

SECTION 2: HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>Principal Hazardous Component(s) (chemical &amp; common name(s))</th>
<th>%</th>
<th>Threshold Limit Value (units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WOOD DUST*</td>
<td>100%</td>
<td>5.0 mg/m³</td>
</tr>
</tbody>
</table>

* Wood dust is listed as a probable human carcinogen

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

<table>
<thead>
<tr>
<th>Boiling Point</th>
<th>N/A</th>
<th>Specific Gravity (H₂O=1)</th>
<th>N/A</th>
<th>Vapor Pressure (mm Hg)</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent Volatile By Volume (%)</td>
<td>N/A</td>
<td>Vapor Density (Air=1)</td>
<td>N/A</td>
<td>Evaporation Rate (________ = 1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility In Water</td>
<td>N/A</td>
<td>Reactivity in Water</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Stability</th>
<th>Unstable [ ] Stable [x]</th>
<th>Conditions to Avoid</th>
<th>OPEN FLAMES OR SPARKS. PYROLYSIS MAY OCCUR.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incompatibility (Materials to Avoid)</td>
<td>OXIDIZERS AND DRYING OILS.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>TOXIC FUMES AND GASES, INCLUDING CARBON MONOXIDE</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Hazardous Polymerization | May Occur [ ] Will Not Occur [x] Conditions to Avoid |
|-------------------------|--------------------------------------------------------|------------------------------------------------------|


SECTION 5: HEALTH HAZARDS

Threshold Limit Value
5.0 mg/m³ TWA; 10.0 mg/m³ 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 AGGRAVATED BY REPEATED OR PROLONGED EXPOSURE TO WOOD DUST.

Chemical Listed as Carcinogen or Potential Carcinogen

<table>
<thead>
<tr>
<th>Chemical Listed as Carcinogen or Potential Carcinogen</th>
<th>National Toxicology Program</th>
<th>I.A.R.C. Monographs</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yes [ ]</td>
<td>Yes [x]</td>
<td>Yes [x]</td>
</tr>
</tbody>
</table>

OSHA Permissible Exposure Limit
15.0 mg/m³ PNOC

Other Exposure Limit Used
10.0 mg/m³ 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 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
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.