

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
**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 <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.