MATERIAL SAFETY DATA SHEET - 011

Industrial Panels - Alpena

1. PRODUCT AND COMPANY INFORMATION

Product Code: Not applicable
Product Name: Hardboard Panels
Brand Names: HARD BORD

Telephone: (512) 322-0278

2. COMPOSITION AND INGREDIENT INFORMATION

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>Exposure Limits</th>
<th>Cancer Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wood Dust</td>
<td>NA</td>
<td>TLV-TWA = 1 mg/m³</td>
<td>MAK-1, NIOSH-Ca, TLV-A1, NTP-K</td>
</tr>
<tr>
<td>Linseed Oil</td>
<td>8001-28-1</td>
<td>TLV-TWA = 10 mg/m³ (1)</td>
<td></td>
</tr>
</tbody>
</table>

(1) Vegetable oil mist

3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW**

Contact with strong oxidizers or exposure to temperatures greater than 400°F may cause a fire. Smoke may contain carbon monoxide, aldehydes, and other toxic materials. Airborne wood and resin dust may explode when combined with an ignition source.

Potential Health Effects (based on expected use of product)

**EYE:** Dust may irritate the eyes.

**SKIN:** Dust may cause skin irritation.

**INGESTION:** Not known.

**INHALATION:** Dust can cause irritation to mucous membranes and the upper respiratory tract. Some types of wood dust are considered carcinogens.

4. FIRST AID MEASURES

**EYES:** For dust exposure, immediately flush eyes with plenty of water for at least 15 minutes.

**SKIN:** Wash with soap and water. Get medical attention if irritation develops or persists.

**INGESTION:** Consult a physician.

**INHALATION:** Remove to fresh air, consult a physician.

**NOTE TO PHYSICIANS:** Exposure to dust may aggravate symptoms of persons with pre-existing respiratory tract conditions and may cause skin and gastrointestinal symptoms.

5. FIRE FIGHTING MEASURES

**FLAMMABLE PROPERTIES:**

Flash point: Not applicable.
Combustible: Material may burn on contact with oxidizers or ignition sources.

**FLAMMABLE LIMITS:**

Lower flammable limit: Not applicable.
Upper flammable limit: Not applicable.

**AUTOIGNITION TEMPERATURE:** Typically 400-500°F.

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**EXPLOSION HAZARD:** Airborne concentrations of combustible dust, when combined with an ignition source, can create an explosion hazard if the dust concentration exceeds 30 - 60 g/m³.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon dioxide, carbon monoxide, nitrogen oxides, aldehydes, cyanides, and other hazardous gases, vapors, and particles.

**EXTINGUISHING MEDIA:** Water, dry chemical and other agents rated for a wood fire (Type A fire). Use an extinguisher rated for a Type A fire.

**FIRE FIGHTING INSTRUCTIONS:** Evacuate the area and notify the fire department. If possible isolate the fire by moving other combustible materials. If the fire is small, use a hose-line or extinguisher rated for a Type A fire. If possible, dike and collect water used to fight fires. Fire fighters should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

6. **ACCIDENTAL RELEASE MEASURES**

   Does not apply.

7. **HANDLING AND STORAGE**

   **HANDLING:** Provide ventilation or other measures so that dust levels are below the exposure limits listed in Section 2.

   **STORAGE:** Keep dust away from ignition sources and store in a closed container. Consult NFPA 68 and 70 for additional information.

8. **EXPOSURE CONTROLS/PERSOAL PROTECTION**

   **ENGINEERING CONTROLS:** Control airborne dust concentrations below the exposure limits. Use only with adequate ventilation.

   **RESPIRATORY PROTECTION:** When respiratory protection is required, or dust concentrations are unknown, use a NIOSH/MSHA approved air-purifying respirator for dusts.

   **SKIN PROTECTION:** Wear work gloves to prevent skin irritation.

   **EYE PROTECTION:** Wear ANSI approved eye protection.

9. **PHYSICAL AND CHEMICAL PROPERTIES**

   **BOILING POINT:** NA
   **MELTING POINT:** NA
   **VAPOR PRESSURE:** NA
   **VAPOR DENSITY:** NA
   **SOLUBILITY IN WATER:** NA
   **DENSITY:** 28 - 70 lb/ft³
   **PH:** NA
   **ODOR:** None
   **APPEARANCE:** 4 by 8 ft hardboard panels

10. **STABILITY AND REACTIVITY**

    **CHEMICAL STABILITY:** (CONDITIONS TO AVOID) Stable.
    **INCOMPATIBILITY:** Keep away from high temperatures and strong oxidizers, such as concentrated nitric acid, oxygen, hydrogen peroxide, and chlorine.
    **HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, hydrogen cyanide, and other products of wood combustion.
    **HAZARDOUS POLYMERIZATION:** Will not occur.

11. **TOXICOLOGICAL INFORMATION**

    **WOOD DUST**
    Wood dust is known to be a human carcinogen. An increased incidence of adenocarcinoma of the nasal cavities and par nasal sinuses were observed in studies of people whose occupations are associated with wood dust exposure. (10th Edition of the National Toxicology Program’s Report on Carcinogens.) Wood dust from some tree species may induce sensitization.

*Effective Date: 5-8-04*
*Replaces: All Previous*
12. ECOLOGICAL INFORMATION

These wood products are not expected to pose an ecological hazard as a result of their intended uses.

13. DISPOSAL CONSIDERATIONS

Dispose of waste according to local, state/provincial, and federal requirements.

14. TRANSPORTATION INFORMATION - Hazardous Materials Table 172.101

<table>
<thead>
<tr>
<th>Shipping Name</th>
<th>NA</th>
<th>Packing Group</th>
<th>NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard Class</td>
<td>NA</td>
<td>Placards/Labels</td>
<td>NA</td>
</tr>
<tr>
<td>Identification No.</td>
<td>NA</td>
<td>Special Provisions</td>
<td>NA</td>
</tr>
</tbody>
</table>

15. REGULATORY INFORMATION

| EPCRA EHS RQ Section 302: | NA | EPA CAA Section 112(r) | NA |
| EPCRA Section 313: | NA | International Fire Code | NA |

16. OTHER INFORMATION

This MSDS is intended solely for safety education and not for use as specifications or warranties. The information in this MSDS was obtained from usually reliable sources and is provided without any representation for warranties regarding the accuracy or correctness. Since the handling, use, and storage is beyond our control, DPI assumes no responsibility and disclaims liability for any loss, damage, or expense arising therefrom.

ABBREVIATIONS:

ANSI: American National Standards Institute  
ASTM: American Society for Testing and Materials  
CAA: Clean Air Act  
CAS: Chemical Abstract Services (identifies specific chemical)  
CERCLA: Comprehensive Environmental Response Compensation and Liability Act  
CFR: Code of Federal Regulations  
Dust: A finely divided solid 0.017 in. or less in diameter that is capable of passing through a U.S. No. 40 standard sieve  
EHS: Extremely Hazardous Substance  
EPCRA: Emergency Planning and Community Right-To-Know Act  
g/m³: Grams per cubic meter  
mg/m³: Milligrams per cubic meter  
Ib/ft³: Pounds per cubic foot  
MAK: Substances that cause cancer in man  
MSHA: Mine Safety Health Act  
NFPA: National Fire Protection Association  
NIOSH: National Institute for Occupational Safety and Health  
NTI: Potential occupational carcinogen, with no further categorization  
NTP: National Toxicology Program-Known to be a carcinogen  
PNOS: Particle not otherwise specified  
PEL: OSHA Permissible Exposure Limit  
ppm: Parts per million  
RTECS: Registry of Toxic Effects of Chemical Substances  
RQ: Reportable Quantity  
STEL: Short-Term Exposure Limit  
TLV-A1: Threshold Limit Value-Confirmed Human Carcinogen  
TWA: 8-hour time-weighted average exposure
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BIBLIOGRAPHY:

5. Integrated Risk Information System, EPA, on-line.
6. EPA Title III List of Lists.
9. Documentation of the TLVs®, American Conference of Governmental Industrial Hygienists, 2002.
11. TLV®s and BEIs®, American Conference of Governmental Industrial Hygienists, 2003.