

Penta Box Prime Beech Rotary Dieboard

**Section 1 Identification**

**Product identifiers**

Product name: Penta Box Prime Beech Rotary Dieboard

**Relevant identified uses**

Rotary constructed of beech veneers - For Industrial Use Only

**Details of the supplier of the safety data sheet**

Freeman Manufacturing and Supply Company  
 1101 Moore Road, Avon, OH 44011  
 Phone (440) 934-1902  
 FAX (440) 934-7200

| HMIS          |   |
|---------------|---|
| H             | 1 |
| F             | 1 |
| R             | 0 |
| PPE<br>Sec. 8 |   |

**24 Hour Emergency Phone Number: (800) 424-9300**

**Section 2 Hazards Identification**

**GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)**

This product is not hazardous in the form that it is shipped.

Sawing, sanding or machining wood or wood products can generate wood dust. Wood dust may ignite or form explosive mixture with air in the presence of an ignition source. Product dust may be irritating to eyes, skin or respiratory system.

**Target organs**

Eyes, skin and respiratory system

**Potential health effects**

**Eyes:** Dust or splinters may cause irritation or injury to the eyes.

**Skin:** Contact with skin may cause irritation. Allergic contact dermatitis may occur in sensitized individuals.

**Inhalation:** Dusts of this product may cause irritation to the nose, throat, or respiratory tract. Wood dust may aggravate pre-existing respiratory conditions and allergies.

**Ingestion:** Due to material form and application, ingestion is considered unlikely. May result in irritation of the digestive tract.

**GHS Label Elements**

Hazard Pictograms: Not Applicable

**Section 3 Composition/Information on Ingredients**

**Composition**

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable are classified as hazardous to health or the environment.

| Ingredient                 | CAS No.        | Weight % |
|----------------------------|----------------|----------|
| Beech veneers              | Not Applicable | >99      |
| Urea Formaldehyde Adhesive | Not Applicable | <0.1     |

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**Section 4 First Aid Measures**

- Eye contact** If dust from this product enters the eyes, open contaminated individual's eyes while under gently running water or eye wash station. Use sufficient force to open eyelids. Remove contact lenses if worn. Have contaminated individual "roll" eyes. Minimum flushing is for 15 minutes. Contaminated individual should seek medical attention if irritation develops or persists or if visual changes occur.
- Skin contact** If dust from this product contaminates the skin, begin decontamination with running water. Remove exposed or contaminated clothing, taking care not to contaminate eyes. The contaminated individual should seek medical attention if any adverse effect occurs.
- Inhalation** If dust generated by this product is inhaled, remove contaminated individual to fresh air.
- Ingestion** Not applicable.

**Section 5 Fire-Fighting Measures**

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical, sand or carbon dioxide.

**General fire hazards**

Wood is combustible when exposed to heat or flame. Wood dusts may form explosive mixtures with air in the presence of an ignition source. An airborne dust concentration of 40 g/m<sup>3</sup> of air is often used as the lower explosion limit (LEL) for wood dust. Avoid prolonged breathing of wood dust or decomposition products.

**Protective equipment and precautions for firefighters**

Firefighters should wear full protective clothing including self contained breathing apparatus. Partially burned dust is especially hazardous if dispersed into the air. Wet down to reduce likelihood of ignition or dispersion. Remove burned or wet dust to open, secure area after fire is extinguished.

**Section 6 Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures**

Wear appropriate protective equipment and clothing during clean-up, see Section 8. Ensure adequate ventilation. Avoid inhalation of dust during clean up.

**Methods for cleaning up**

Vacuum or wet sweep small wood pieces and dust; place in appropriate container for disposal. Gather larger pieces by an appropriate method. Reduce airborne dust by use of wet methods and prevent scattering by moistening with water.

**Section 7 Handling and Storage**

**Precautions for safe handling**

When the boards are machined (sawn, sanded, drilled, routed, planed, etc.) wood dust is produced. Wood dust can form an explosive mixture in air. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Keep away from heat and sources of ignition. Keep formation of airborne dusts to a minimum.

Wood dust and splinters may cause irritation of the nose and throat, eyes and skin. Some woods may be sensitizers, and some people may develop allergic dermatitis or asthma. Use personal protective equipment as appropriate. Avoid frequent or prolonged inhalation of wood dust. Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling.

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**Section 7 Handling and Storage continued**

**Conditions for safe storage**

Store flat, supported and protected from direct contact with the ground. In higher temperatures (>212°F) there may be a buildup of noxious gases. Keep in a well-ventilated place away from incompatible materials. Store in a cool dry place.

**Section 8 Exposure Controls/Personal Protection**

**Components with workplace control parameters**

| Ingredient   | OSHA PEL  | ACGIH                              |
|--------------|---|------------------------------------|
| Wood dust    | TWA 15 mg/m <sup>3</sup> (total)<br>TWA 5 mg/m <sup>3</sup> (respirable fraction) | 1 mg/m <sup>3</sup><br>(inhalable) |
| Formaldehyde | TWA 0.75 ppm  | 0.3 ppm                            |

**Appropriate engineering controls**

Provide adequate general and local exhaust ventilation to keep the airborne concentrations of dust below the recommended exposure limits when the product is subjected to manual or mechanical cutting or abrasion processes that generate wood dust. Prevent sparks or other ignition sources in ventilation equipment. General dilution ventilation is recommended in processing and storage areas. Use wet methods, if appropriate, to reduce generation of dust. An eye wash station and safety shower should be located near the workstation.

**Personal protective equipment**

**Eye/face protection**

Safety glasses or goggles are recommended when using this product. Ensure compliance with OSHA's PPE standard (29 CFR 1910.132 and .133) for eye and face protection. With product at ambient temperatures, use safety glasses equipped with side shields.

**Skin protection**

Impervious protective clothing and gloves recommended to prevent drying or irritation of skin. Ensure compliance with OSHA's PPE standards (29 CFR 1910.132 (general) and 138 (hand protection))

**Respiratory protection**

A NIOSH approved dust mask or filtering face piece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet sanding/flattening should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.

**General hygienic practices**

Avoid breathing dust. Avoid contamination of food, beverages, or smoking materials. Wash thoroughly after handling, and before eating, drinking or smoking. Remove contaminated clothing promptly and clean thoroughly before reuse.

**Section 9 Physical and Chemical Properties**

|                       |                        |
|-----------------------|------------------------|
| <b>Appearance</b>     | Rigid boards or panels |
| <b>Color</b>          | Light to dark tan      |
| <b>Odor</b>           | Resinous wood          |
| <b>Odor threshold</b> | Not applicable         |
| <b>pH</b>             | Not applicable         |

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**Section 9 Physical and Chemical Properties continued**

|  |                                   |
|--|-----------------------------------|
| <b>Boiling point</b>                                 | Not applicable                    |
| <b>Melting point / Freezing point</b>                | Not applicable                    |
| <b>VOC Content</b>                                   | No data available                 |
| <b>Initial boiling point</b>                         | No data available                 |
| <b>Evaporation rate (Butyl Acetate = 1)</b>          | Not applicable                    |
| <b>Flammability (solid)</b>                          | Combustible                       |
| <b>Upper flammability limits in air, % by volume</b> | No data available                 |
| <b>Lower flammability limits in air, % by volume</b> | 40 g/m <sup>3</sup> for wood dust |
| <b>Vapor pressure</b>                                | Not applicable                    |
| <b>Vapor density</b>                                 | Not applicable                    |
| <b>Specific gravity</b>                              | <1.0                              |
| <b>Solubility in water</b>                           | Insoluble                         |
| <b>Coefficient: n-octanol/water</b>                  | Not applicable                    |
| <b>Auto-ignition temperature</b>                     | Approximately 450°F               |

**Section 10 Stability and Reactivity**

|   |   |
|---|---|
| <b>Reactivity</b>                         | None known.   |
| <b>Chemical stability</b>                 | Stable under recommended storage conditions.  |
| <b>Possibility of hazardous reactions</b> | None.   |
| <b>Conditions to avoid</b>                | Heat and open flames.<br>Product may ignite in excess of 400°F<br>Dust may form explosive mixture in air. |
| <b>Incompatible materials</b>             | Oxidizing agents, peroxides.  |
| <b>Hazardous decomposition</b>            | Thermal decomposition may emit irritating fumes or gases of carbon monoxide, carbon dioxide.              |
| <b>Hazardous polymerization</b>           | Not applicable  |

**Section 11 Toxicological Information**

**Toxicological information**

No toxicological data available for this product.  
The toxicological information for wood/wood dust is listed below.

**Wood/wood dust (CAS # Not Assigned)**

Wood dust may cause dryness, irritation, coughing or sinusitis. IARC and NTP classify wood dust as a carcinogen. This classification is based on the increased occurrence of adenocarcinomas of the nasal cavities and paranasal sinuses associated with exposure to wood dust. The evaluation noted insufficient evidence to associate cancer of the oropharynx, hypopharynx, lung, lymphatic and hematopoietic systems, stomach, colon or rectum with exposure to wood dust.

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**Section 11 Toxicological Information continued**

|  |  |
|--|--|
| <b>Acute inhalation toxicity</b>         | Wood dust may cause respiratory irritation, nasal dryness, coughing, wheezing and sneezing   |
| <b>Chronic inhalation toxicity</b>       | Wood dust may cause respiratory sensitization and/or irritation.   |
| <b>Acute dermal toxicity</b>             | Wood dust may cause dermatitis on prolonged, repetitive contact  |
| <b>Skin corrosion/irritation</b>         | Wood dust is a skin irritant   |
| <b>Serious eye damage/eye irritation</b> | Wood dust is an eye irritant   |
| <b>Germ cell mutagenicity</b>            | No data available  |
| <b>Carcinogenicity</b>                   |  |
| <b>IARC</b>                              | Wood dust is considered Group 1 (Carcinogenic to Humans). This classification is based primarily on IARC's evaluation of increased risk in the occurrence of adenocarcinomas of the nasal cavities and para nasal sinuses associated with exposure to wood dust. |
| <b>NTP</b>                               | Report on Carcinogens - Known Human Carcinogen   |
| <b>OSHA</b>                              | Hazard Communication Carcinogens - Present   |
| <b>Reproductive toxicity</b>             | Not available  |
| <b>Specific target organ toxicity</b>    |  |
| - single exposure                        | Wood dust may cause respiratory irritation   |
| <b>Specific target organ toxicity</b>    |  |
| - repeated exposure                      | No data available  |
| <b>Aspiration hazard</b>                 | Not expected to be a hazard  |

**Section 12 Ecological Information**

|                    |   |
|--------------------|---|
| <b>Ecotoxicity</b> | This wood product does not pose an ecological hazard when used as intended. |
|--------------------|---|

**Section 13 Disposal Considerations**

Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose of material according to Local, State, Federal, and Provincial Environmental Regulations.

**Section 14 Transport Information**

**Department of Transportation (DOT) Shipping Regulations**

This product is not regulated as a hazardous material by the United States (DOT) transportation regulations.

**Canadian Transportation of Dangerous Goods (TDG) Requirements**

Not regulated as dangerous goods.

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**Section 15 Regulatory Information**

**US Federal Regulations:** Wood and wood products are considered manufactured articles and are exempt under OSHA's Hazard Communication Standard 29 CFR 1910.1200. Wood dust, a by-product generated from sawing, sanding or machining wood and wood products, is considered hazardous and is regulated under the Hazard Communication Standard 29 CFR 1910.1200.

**SARA Reporting Requirements:** The components of this product are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

**TSCA Inventory Status:** The components of this product are listed on the TSCA Inventory or are exempted from listing.

**California Proposition 65:** Ingredients within this product are not on the Proposition 65 Lists.

 **WARNING:** Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to [www.P65Warnings.ca.gov/wood](http://www.P65Warnings.ca.gov/wood)

**Section 16 Other Information**

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