

Safety Data Sheet

Particleboard - Various Thicknesses

SECTION 1: IDENTIFICATION

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|---------------------------|--|
| Product Identifier | Particleboard – Various Thicknesses |
| Manufacturer | Kronospan PB, LLC 1 Kronospan Way Eastaboga, AL 36360 1-256-741-8755 (non-emergency) |
| Emergency Number | <u>Only</u> For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night 1-800-424-9300 |
| Recommended use | Industrial use, construction of furniture, cabinets and doors |

SECTION 2: HAZARD IDENTIFICATION

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|-------------------------|---|
| Physical State | Solid |
| Color | Straw yellow to medium brown. |
| Hazard Statement | In its intact state Particleboard panels are not hazardous materials. Panel edges and broken panels may cut through skin. Dust from Particleboard is hazardous and it is classified by the World Health Organization as causing cancer to humans. This product contains and may release formaldehyde. |
| Inhalation | Abrasive action may cause wood dust to be generated that may be an irritant to the respiratory system. Particleboard can emit very low amounts of gaseous formaldehyde that decreases over time. |
| Eye | Abrasive action may cause wood dust to be |

generated that may be an irritant to the eyes.

Skin

Product may be an irritant to wood sensitive individuals.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Name | CAS # | Concentration | Exposure Limit |
|---|---------|------------------|--|
| Formaldehyde | 50-00-0 | < 0.1% by weight | OSHA PEL –TWA 0.75 ppm OSHA PEL- STEL 2 ppm ACGIH TLV- 0.3 ppm |
| Wood (Hardwood and Softwood of various species) | NA | > 90% by weight | OSHA PEL –TWA 15 mg/m3 Total Dust OSHA PEL- 5mg/m3 Respirable Dust ACGIH TLV- 1.0 mg/m3 Inhalable Dust |

SECTION 4: FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Eye Contact

Gaseous formaldehyde and wood dust may irritate the eyes. Flush the eyes with water if contact is made with wood fiber..

Skin Contact

Product may be an irritant and may cause contact dermatitis to wood sensitive individuals. Wash skin with soapy water. Seek medical advice for chronic symptoms of exposure.

Inhalation

Gaseous formaldehyde and wood dust may irritate respiratory system. Seek fresh air if PEL values are exceeded. Seek medical advice for chronic symptoms of exposure.

Protection of First-Aiders No actions should be taken that involves risk to any personnel without the proper training.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media Use water, dry chemical or carbon dioxide (CO2) to extinguish flames.

Special hazards arising from the substance or mixture Don't inhale smoke and gases produced during the combustion. Avoid the extinguishing to enter the sewage systems and water bodies.

Flammability The material will burn. Avoid wood dust contact with ignition sources. Avoid smoking in the workplace and storage rooms.

LEL 40gr/m³ for wood dust

Auto Ignition Temperature 400 – 500 °F

Flash Point None

Hazardous combustion Products

Smoke, Fume, Oxides of carbon, and Aldehydes.

Protective measures in Fire Evacuate area. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

NFPA rating Health 0 Flammability 1 Reactivity 0

SECTION 6: ACCIDENTAL RELEASE MEASURES

Not Applicable to finished product. Use precaution to control dust generation from abrasive cutting or sanding of the finished product.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling No special handling instructions

Storage Provide adequate ventilation to avoid possible buildup of formaldehyde emissions.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

| Name | CAS # | Concentration | Exposure Limit |
|---|---------|------------------|--|
| Formaldehyde | 50-00-0 | < 0.1% by weight | OSHA PEL –TWA 0.75 ppm OSHA PEL- STEL 2 ppm ACGIH TLV- 0.3 ppm |
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Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

TWA – Time Weighted Average 8 hours

STEL – Short Term Exposure Limit 15 minutes

Engineering Measures

No special ventilation requirements under ordinary conditions. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. When cutting, drilling, sanding, planing and routing use tools that capture all the dust at the source and work environment should be kept well ventilated.

Personal Protection Measures

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| Eye/face Protection | No special ventilation requirements under ordinary conditions. If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate such as sanding, sawing, machining particleboard. Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. |
| Skin and body protection | No special ventilation requirements under ordinary conditions. Wood sensitive individuals should take precautions to avoid skin contact by wearing appropriate protective gloves and clothing. |
| Respiratory Protection | Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. |

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

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| Physical State and Description | Solid, a composite panel of lingo-cellulose wood particles of various sizes bound with thermoset resin. |
| Color | Straw yellow to medium Brown. |
| Odor | Mild wood odor |
| Odor Threshold | No information available |

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|----------------------------------|--|
| Melting Point/Range | Not Applicable |
| Boiling Point/Range | Not Applicable |
| Flash Point | Not Applicable |
| Evaporation Rate | Not Applicable |
| Flammability Limits | Not Applicable |
| Vapor Pressure | Not Applicable |
| Vapor Density | Not Applicable |
| Relative Density | 640kg/m ³ – 800 kg/m ³ |
| Solubility in water | Negligible |
| Auto ignition Temperature | > 400°F |

SECTION 10 : STABILITY AND REACTIVITY

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| Reactivity | Non-reactive |
| Chemical Stability | Stable under normal conditions. |
| Conditions to Avoid | Extreme heat and high relative humidity may liberate emissions of formaldehyde. |
| Incompatible Materials | Strong acids and oxidizing agents |
| Hazardous Decomposition Products | Under normal conditions of storage and use, hazardous decomposition products should not be produced. Oxides of carbon, aldehydes and organic acids may release during thermal decomposition. |
| Hazardous Polymerization | Hazardous polymerization does not occur under normal conditions. |

SECTION 11 : TOXICOLOGICAL INFORMATION

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| Acute Toxicity | Based on available data, it is not expected to be toxic. However, the product itself may liberate formaldehyde if not stored properly and or wood dust if cut, sanded, or other abrasive action is applied. |
| Inhalation | Studies suggest that cutting, sanding, or other abrasive action to this product may generate air born wood dust and or formaldehyde which may irritate the respiratory system or aggravate existing respiratory conditions. Users may become sensitized to wood dust or formaldehyde emissions over extended periods of time. Seek professional care if any of these symptoms are experienced. Respiratory protection may be needed if OSHA PEL is exceeded. |
| Eye Contact | Wood fiber and or formaldehyde emissions from cutting, sanding, or other abrasive action may cause irritation of the eyes. Safety goggles or safety glasses are recommended. |
| Skin Contact | This product when cut, sanded, or abrasively altered may produce fiber that may be irritating to the skin for wood sensitized individuals. Gloves and or other skin barriers are recommended if this occurs. |
| Chronic Effects | Repeated exposure to dust increases the risk of nasal cavity cancers and lung fibrosis (scarring). Sensitization of respiratory system and skin, asthma and dermatitis risks are increased. The International Agency for Research on Cancer (IARC) had evaluated wood dust in Group 1: carcinogenic to humans. The International Agency for Research on Cancer (IARC) had evaluated formaldehyde in Group 1: carcinogenic to humans. More information on IARC evaluation on wood dust and formaldehyde can be found at www.iarc.fr People affected by occupation asthma may suffer severe symptoms (shortness of breath, wheezing, cough) if in contact with even small amount of wood dust. |

SECTION 12 : ECOLOGICAL INFORMATION

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| Degradability | This product is expected to be inherently biodegradable. No other specific environmental data for this product is available. |
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SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal Methods

Disposal should be in accordance with applicable regional, national and local laws and regulations. This product can be incinerated or land filled. Check with your local state, and federal regulations before disposal. This product is not classified as a hazardous waste under the federal; regulations as stated in 40 CFR 261, but be advised that some state or local disposal requirements may differ from federal requirements.

SECTION 14 : TRANSPORTATION

Product is not regulated by US DOT and is not classified to be a dangerous good for any mode of transport.

SECTION 15 : REGULATORY INFORMATION

U.S. Federal Regulations

US OSHA Hazardous Communication Standard This product is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200. Product contains formaldehyde in extremely low levels and depending on conditions cutting, sanding, or machining this product may emit emissions of wood dust and formaldehyde.

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:

This product contains no "extremely hazardous substances".

SARA 302/304 Components No products found

SARA 311/312 Hazards No products found

Sara 313 – Emissions Reporting - This product contains the following EPCRA section 313 chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372):

| CAS # | Chemical Name | Percent by Weight |
|---------|---------------|-------------------|
| 50-00-0 | Formaldehyde | <= 0.10 |

California Prop. 65 Components

Warning: Product contains formaldehyde in extremely low levels and depending on conditions cutting, sanding, or machining this product may emit emissions of wood dust and formaldehyde.

SECTION 16 : OTHER INFORMATION**HMIS Rating**

Health hazard: 0
Flammability: 1
Physical Hazard 0

NFPA Rating

Health hazard: 0
Fire Hazard: 1
Reactivity Hazard: 0

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Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text. The user assumes all responsibility for the use, storage, and handling of this product. Kronospan LLC makes no warranty of any kind, expressed or implied, for the accuracy of the data contained within this SDS. The users should always follow the most current SDS available.

End of SDS