Safety Data Sheet: Particleboard Prepared: 4-27-2018 Prepared By: Dakota Panel

SECTION 1: IDENTIFICATON

Product Identifier

Product Types: Particleboard, Particleboard with thermally bonded paper laminate, Particleboard with thermally bonded melamine. This particleboard consists of ponderosa pine particles bonded together using a mixture of urea/formaldehyde or melamine urea/formaldehyde resins, wax and a catalyst.

Intended Use of the Product: Cabinets, shelving, furniture, molding, doors and door jambs

Manufactured by:

Dakota Panel

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Section 2: HAZARD IDENTIFICATION

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012- This product is generally an article but is regulated by OSHA for the release of wood dust during mechanical operations releasing dust. The free formaldehyde levels are below OSHA reporting requirements.

Skin Irritation 2

Skin Sensitization 1

Eye Mild Irritation 2B

Respiratory Sensitization 1

Specific Target Organ Toxicity Single Exposure 3; Respiratory Tract Irritation

Carcinogenicity 1A

Combustible Dust

Label Elements

OSHA HCS 2012

DANGER

Hazard Statements – Causes skin irritation

May cause an allergic skin reaction

Causes eye irritation

May cause respiratory irritation

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause cancer via inhalation of respirable dust

May form combustible dust concentrations in the air

Precautionary Statements

Prevention-Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wear protective clothing; eye, hand and breathing protection

Use only outdoors or in a well ventilated area

Wash thoroughly after handling

Response-if skin irritation or rash occurs, get medical advice or attention

If in eyes, rinse cautiously with water for several minutes. If irritation persists, seek medical advice or attention.

If inhaled, and breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

If experiencing respiratory symptoms, call a doctor/physician.

Storage/Disposal- Store away from water and ignition sources. It is recommended to store the product in an area with relative humidity and temperature that approximates end use conditions.

Dispose of product in accordance with local regulations.

Other Hazards

OSHA HCS 2012- This product is not considered hazardous under the U.S. OSHA 29 CFR 1910. 1200 Hazard Communication Standard

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS #	%	HAZARDOUS
Ponderosa pine fibers	Not classified	>95	yes
Urea/formaldehyde resin or	Not classified	7-9 %	no
Melamine urea/formaldehyde resin,	Not classified	7-9%	no

Other Information

NFPA Health = 1, Flammability = 1, Reactivity = 0, Special Information = None

HMIS Health = *1, Flammability = 1, Reactivity = 0. PPE = Safety glasses, gloves, respirator

*Chronic Health Hazard

Section 4: First-Aid Measures

Description of First-Aid Measures

Inhalation – If breathing is difficult, remove victim to fresh air and keep at rest in a comfortable position.

Skin – Wash with plenty of soap and water. If skin irritation occurs, get medical attention Remove and wash contaminated clothes before reuse.

Eye – Rinse thoroughly with water for several minutes. If irritation persists, seek medical Attention.

Ingestion – Not known or expected to occur under normal use or as purchased.

Most important symptoms and effects, both acute and delayed

General: May cause damage to organs through prolonged or repeated exposure to dust generated from sanding or cutting. May cause cancer. May cause an allergic reaction in sensitive individuals. Harmful if inhaled. Causes skin and eye irritation.

Chronic symptoms: Repeated or prolonged inhalation of dust may damage lungs. May cause allergy or asthma symptoms or breathing difficulties or cancer.

Section 5: Fire Fighting Measures

Extinguishing media – Small fires – Dry chemical, CO2, Water spray or regular foam

Unsuitable Media – No data available, unknown

Firefighting procedures: No special procedures. Procedures for wood are well known

Special Hazards arising from substance or mixture

Unusual fire and explosion hazards – Particleboard is not an explosion hazard. Sawing sanding, or machining could result in enough dust in the air to create a strong explosion hazard if exposed to an ignition source. 40 grams per cubic meter is often used as the lower explosion limit (LEL) for wood dusts.

Hazardous Combustion Products – Burning of particleboard can result in carbon dioxide, carbon monoxide, nitrogen oxide, metal oxide, aldehydes (including formaldehyde), Sulphur dioxide and halogenated compounds.

Section 6: Accidental Release Measures

Personal Precautions – Do not breathe dust.

Emergency Procedures – No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended.

Environmental Precautions – No known significant environmental effects.

Methods and Material for Containment and **Clean up –** Not applicable for product in purchased form. Dust generated from sawing, sanding, drilling or routing may be vacuumed or shoveled for recovery or disposal. Clean up and disposal activities should avoid the creation of airborne dust.

Section 7: Handling and storage

Precautions for Safe Handling – No special precautions for handling product. Use good safety practices.

Conditions for Safe Storage – Avoid storage where exposure to water could occur or near an ignition source. It is recommended to store the product in an area with temperature and humidity that approximate end use conditions. Avoid hot and/or damp areas.

Section 8: Exposure Controls / PPE

Control Parameters

Exposure Limits, Particleboard- No data available

Exposure Limits, Wood Dust – ACGIH, 1 mg/m3 TWA
NIOSH, 1 mg/m3 TWA

OSHA, 15 mg/m3 total dust (5 mg/m3 respirable fraction)

Exposure Controls

Appropriate Engineering Controls – Adequate ventilation systems are needed to control airborne contaminants below applicable threshold limit values. Due to the explosive potential of wood dust when suspended in air, precautions should be taken during sawing, sanding or machining of wood products to prevent sparks or other ignition sources in ventilation equipment.

Personal Protective Equipment (PPE) (if necessary)

Respiratory Protection – None needed under normal use. Wear NIOSH/MSHA approved respiratory protection when sanding, sawing, or machining.

Eye Protection – Safety glasses with side shields recommended when re-manufacturing or otherwise working with this product.

Protective Clothing – Other protective equipment such as puncture resistant gloves and outer garments may be needed depending on how product is used and/or dust conditions warrant.

Section 9: Physical and Chemical Properties

Appearance – Rigid Panel	Color – Various, mostly tan for bare board
Form – Solid with granular composition	Odor – Resinous wood
Odor Threshold – Not Available	pH – Not Available
Freezing Point – Not Applicable	Boiling Point – Not Applicable
Flash Point – Not Applicable	Evaporation Rate – Not Applicable
Flammability - Combustible	Flammability Limits in air, upper, % by volume Not Available
Flammability Limits in air, lower, % by volume 40 g/cm3 for wood dust	Vapor pressure – Not Applicable
Vapor Density – Not Applicable	Specific Gravity – 0.40 @ 12% MC Volume basis
Partition coefficient (n-octanol/water)- Not Applicable	Solubility - Insoluble
Auto-ignition Temperature = 399.2 – 500 F 204.4 – 260 C for wood	

Section 10: Chemical Stability & Reactivity Information

Chemical Reactivity – Stable at normal conditions.

Conditions of Reactivity – None known**.**

Incompatible Materials – Strong acids, alkalis, oxidizing agents and drying oils**.**

Hazardous Decomposition Products – Thermal decomposition may emit irritating fumes or gases of: carbon monoxide, carbon dioxide, sulfur dioxide, nitrogen oxides, aldehydes, or organic acids**.**

Possibility of Hazardous Reactions – Will not occur.

Section 11 – Toxicological Report

Toxicity Data – Currently, there is no toxicological data for this product in purchased form.

Toxicity Hazard Rating for Wood Dust is 3.3 (moderately toxic) based on the National Library of Medicine's toxicity rating of 1=none and 6=super toxic. A probable lethal oral dose of wood dust (human) would be 0.5 to 5.0 g/kg. This would be about ¾ of a pound of wood dust for a 150 pound person.

Carcinogenicity – Wood dust is not considered a potential carcinogen by OSHA. IARC classifies wood dust as a carcinogen to humans (Group 1). This classification is primarily based on IARC's evaluation of increased risk in the occurrences of adenocarcimas of the nasal cavities and paranasal sinuses associated with exposure to hardwood dust. Wood dust has been listed by NTP as a known human carcinogen.

Sensitization to the Product –Some individuals can become sensitized to certain wood dusts and develop allergy-like symptoms upon repeated exposure.

Persistence and Degradability – No data available**.**

Bio-Accumulative Potential – No data available**.**

Mobility in Soil – No data available**.**

Section 13: Disposal Considerations

Product Waste – Burn in an incinerator. Dispose of in a landfill. Recycle. Under RCRA guidelines, it is the User's responsibility to determine if this product falls under RCRA applicable criteria for hazardous waste. Follow all federal, state and local regulations in the disposal of the product.

Section 14: Transportation Information

DOT – Not regulated as dangerous goods or a hazardous material.

TDG – Not regulated as dangerous goods.

Section 15: Regulatory Information

U.S. OSHA – Wood Products are not considered hazardous under the criteria of the Federal OSHA Hazard Communication Standard, 29 CFR 1910.1200. However, wood dusts generated by sawing, sanding, or machining these products may be hazardous.

ANSI A208.1-1999 – Particleboard Standard: Industry consensus standard sets physical, mechanical and emission levels for industrial and flooring particleboard.

RCRA – pMDI is not a hazardous waste in purchased form.

SARA/CERCLA – This product does not contain chemicals in concentrations that should require reporting Under SARA 313.

California Proposition 65, WARNING - This product generates wood dust when drilled, sawed, sanded or machined which is known to the state of California to cause cancer.

Section 16: Other Information: Disclaimer

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