

Wood and Wood Products Material Safety Data Sheet

Cedar Species Solid Wood Planking Products

NOTICE

This notice and the enclosed Material Safety Data Sheet (MSDS) are provided to assist you in the handling, processing and distribution of your product. We believe our materials are articles as defined in OSHA 29 CFR Part 1910.1200 "Hazard Communication Standard". We consider this product to be safe under traditional industry processing conditions.

The information contained herein was developed from our supplier MSDS sheets, NTIS Annual Report on Carcinogens, Sax's Handbook, "Dangerous Properties of Industrial Chemicals", NIOSH Registry of Toxic Effects of Chemical Substances, US Department of Health National Toxicology Program, American Conference of Industrial Hygienists TLV for Chemical Substances in the Work Environment.

We urge you to familiarize yourself with the enclosed MSDS. Also, provide instructions to your employees, agents, contractors, customers and/or others who may handle this product.

This information is offered in good faith. No warranty either expressed or implied is hereby made. Normally recommended industrial hygiene and safe handling procedures are believed applicable. However, each user should review use in the specific context of the intended use and determine what is appropriate.

We value your business and want to ensure that you have our current product safety information. If you need additional copies at any time, or have any questions concerning the information, please let us know.



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SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Names:

Wood and Wood Products – Non Urea-Formaldehyde Bonded (Softwood Plywood, Oriented Strand Board, Hardboard, Moldable Mat, Cellulosic Wood Fiber Insulating Board, Moulding, Millwork, Laminated Veneer Lumber, Glulam, Engineered Lumber, Untreated Lumber, Knotty Cedar and Aromatic CedarMate Planking)

Product Use:

Building materials – structural, industrial or decorative

Manufacturer/Distributor:

Global Product Sourcing, LLC (GPS, LLC)

SECTION 2. COMPOSITION INFORMATION ON INGREDIENTS

No hazardous ingredients

SECTION 3. HAZARDS IDENTIFICATION

Description:

Solid wood, such as lumber, and wood products not bound with a urea-formaldehyde resin, such as softwood plywood, OSB, hardboard and engineered lumber.

Emergency Overview

Sawing, sanding or machining wood products can produce wood dust which can cause an explosion hazard. Wood dust may cause eye, nose and throat irritation.

Potential Health Effects**Inhalation:**

Wood dust may cause nasal dryness, irritation, coughing and sinusitis. Repeated exposures (even below 5mg/m³) to certain wood dusts such as Western Red Cedar, Pacific Knotty Cedar and Aromatic Red Cedar can product allergic responses in some sensitive individuals.

Eye Contact:

Wood dust can cause mechanical irritation.

Skin Contact:

Various species of wood dust may evoke allergic contact dermatitis in sensitized individuals. If an allergy preexists or develops, it may be necessary to remove the sensitized worker from further exposure to wood dust or wood-based products.

Ingestion:

Not applicable under normal conditions of use.

SECTION 4. FIRST AID MEASURES

Inhalation:

Remove to fresh air. If persistent irritation, severe coughing or breathing difficulty occurs, get medical attention.



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SECTION 4. FIRST AID MEASURES - Continued

Eye Contact:

Remove contact lenses. Flush eyes, including under eyelids, with large amounts of water. Remove to fresh air. If irritation persists, get medical attention.

Skin Contact:

Wash affected areas with soap and water. If rash or persistent irritation or dermatitis occurs, get medical attention.

Ingestion:

Not applicable under normal conditions of use.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point:

Not applicable

Explosive Limits:

Sawing, sanding or machining wood products can produce wood dust as a by-product. Wood dust is a strong to severe explosion hazard if a dust "cloud" contacts an ignition source. 212° F (100° C) has been suggested as the upper temperature limit for **continuous exposure** for wood without risk of ignition (wood **dust** may require a still lower temperature). An airborne concentration of 40 grams of dust per cubic meter of air is often used as the lowest explosion limit (LEL) for wood dust.

Hazardous Combustion Products:

Thermal-oxidative degradation, or burning, of wood can produce irritating and potentially toxic fumes and gases including carbon monoxide, aldehydes and organic acids.

Autoignition Temperature:

400° - 500° F (204° - 260° C)

Fire Extinguishing Media:

Water. Partially burned dust is especially hazardous if dispersed into the air. Remove burned or wet dust to open area after fire is extinguished.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Not applicable for product in purchased form. Sweep or vacuum dust for recovery or disposal. Wood dust clean-up and disposal activities should be accomplished in a manner to minimize creation of airborne dust.

SECTION 7. HANDLING AND STORAGE

Handling:

See Section 15 "Label Text"

Storage:

Wood products are combustible and, therefore, should not be subjected to temperatures exceeding the autoignition temperature. Water spray may be used to wet down wood dust generated by sawing, sanding or machining to reduce the likelihood of ignition or dispersion of dust into the air.



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Due to the explosive potential of wood dust when suspended in air, precautions should be taken during sanding, sawing or machining of wood products to prevent sparks or other ignition sources in ventilation equipment. Use of totally enclosed motors is recommended. Provide local exhaust as necessary to meet OSHA requirements for wood dust exposure.

Respiratory Protection:

Wear NIOSH/OSHA approved respirator when the allowable exposure limits to wood dust may be exceeded.

Eye Protection:

Recommend goggles or safety glasses as conditions indicate when sawing, sanding or machining wood products.

Skin Protection:

Other protective equipment such as gloves and outer garments may be needed to reduce skin contact.

The following are wood dust exposure limits which are in accord with those recommended by OSHA in the 1998 revision of PELs.

Wood Species	CAS No.	OSHA PEL	ACGIH TLV
Soft and most hardwoods except Western Red Cedar, Beech and Oak	None	5mg/m ³ TWA 10mg/m ³ STEL	5mg/m ³ TWA 10mg/m ³ STEL
Red Cedar	None	2.5mg/m ³ TWA	Not applicable
Certain hardwoods, i.e., Beech and Oak	None	Not applicable	1 mg/m ³ TWA

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor:

Light tan to dark tan. Color and odor are dependent upon wood species.

Physical State:

Solid

PH:

Not applicable

Vapor Pressure:

Not applicable

Vapor Density:

Not applicable

Boiling Point:

Not applicable

Melting Point:

Not applicable

Solubility in Water:

Insoluble

Specific Gravity:

<1.0



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SECTION 10. STABILITY AND REACTIVITY

Stability:

Stable.

Conditions to Avoid:

Wood dust generated from sawing, sanding or machining the product is extremely combustible. Keep in cool, dry place away from ignitions sources.

Incompatibility (Materials to avoid):

Oxidizing agents and drying oils.

Hazardous Decomposition Products:

Thermal-oxidative degradation, or burning, of wood can produce irritating and potentially toxic fumes and gases including carbon monoxide, aldehydes and organic acids.

Hazardous Polymerization:

Will not occur

SECTION 11. TOXICOLOGICAL INFORMATION

Wood Dust:

Wood dust generated from sawing, sanding or machining this product may cause nasal dryness, irritation, coughing and sinusitis. Wood dust is not considered a potential cancer hazard by OSHA or the National Toxicology Program (NTP). The International Agency for Research on Cancer (IARC) classifies wood dust as a carcinogen to humans (Group I). This classification is based primarily on IARC's evaluation of increased risk in the occurrence of adenocarcinomas of the nasal cavities and paranasal sinuses associated with exposure to wood dust. IARC did not find sufficient evidence to associate cancers of the oropharynx, hypopharynx, lung, lymphatic and hematopoietic systems, stomach, colon or rectum with exposure to wood dust.

SECTION 12. DISPOSAL CONSIDERATIONS

This product is not considered hazardous waste under Federal Hazardous Waste Regulations 40 CFR 261. Please be advised, however, state and local requirements for waste disposal may be different from federal regulations.

Incinerate or landfill in accordance with local, state and federal regulations.

SECTION 13. TRANSPORT INFORMATION

This product is not a DOT hazardous material.

SECTION 14. REGULATORY INFORMATION

OSHA:

Wood products are not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. However, wood dust generated by sawing, sanding and machining these products may be hazardous.

TSCA:

This product complies with TSCA inventory requirements.

SARA 313:

None



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SECTION 14. REGULATORY INFORMATION - continued

OSHA:

Wood products are not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. However, wood dust generated by sawing, sanding and machining these products may be hazardous.

Canadian WHMIS:

These products are not considered controlled products.

HMI5 Rating:

Health - 0, Flammability - 1, Reactivity - 0

MSDS Revision Summary:

Changes made in Sections 11 and 15 to reflect IARC's classification of wood dust as a human carcinogen.

IMPORTANT

The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigations and verification. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations. GLOBAL PRODUCT SOURCING, LLC (GPS, LLC) MAKES NO WARRANTY OF ANY KIND EXPRESS OR IMPLIED. IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE SPECIFICALLY EXCLUDED. GPS, LLC will not be liable for claims relating to any party's use of or reliance on information and data contained herein regardless of whether it is claimed that the information and data are inaccurate, incomplete or otherwise misleading.

This Material Safety Data Sheet is being furnished for similar wood products produced by different manufacturers. Consult labels, stamps and markings on the product or packaging for the exact identity of the manufacturer.

SECTION 15. LABEL TEXT

Untreated Wood Products

CAUTION!

SAWING, SANDING OR MACHINING WOOD PRODUCTS CAN PRODUCE WOOD DUST WHICH CAN CAUSE A FLAMMABLE OR EXPLOSIVE HAZARD.

WOOD DUST MAY CAUSE LUNG, UPPER RESPIRATORY TRACT, EYE AND SKIN IRRITATION. SOME WOOD SPECIES MAY CAUSE DERMATITIS AND/OR RESPIRATORY ALLERGIC EFFECTS. THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CLASSIFIED WOOD DUST AS A NASAL CARCINOGEN IN HUMANS.

Avoid dust contact with ignition device.

Wood dust clean-up and disposal activities should be accomplished in a manner to minimize creation of airborne dust.

Avoid breathing dust.

Avoid dust contact with eyes and skin.

FIRST AID: If inhaled, remove to fresh air. In case of contact, flush eyes and skin with water. If irritation persists, call a physician.



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SECTION 16. Cedar Toxic Test

EMSL Analytical, Inc.

IH Laboratory, 107 Haddon Avenue, Westmont, NJ 08108

September 29, 2008

Re: Cedar Planking Testing for Irritant

Identification of Unknown Organic Compounds in a Bulk Wood Sample by Gas Chromatography/Mass Spectrometry (GC/MS)

EMSL Project:

280801762

A portion of the wood planking labeled 'Pacific Knotty Cedar Planking' le was extracted using methanol and analyzed by direct injection gas chromatography/mass spectrometry (GC/MS) operated in the EI mode.

Results and Discussion

The sample contained many compounds most of which were terpenes (C10H16 backbone), sequiterpenes (C15 terpenes) and possible diterpenes (C20).

These compounds are found in flavor and fragrances formulations. Thymol and eucalyptol were found and are used in Vick's VapoRub.

Cedrol was also found in significant concentrations. Cedrol is a known irritant.

Summary:

Pacific Knotty Cedar contains a terpene named Cedrol. Cedrol is found typically in most cedar species. Cedrol can be an irritant to humans that are sensitive to or allergic to terpenes of this nature. The level of Cedrol discovered in this test did not measure near levels that could be considered lethal or toxic to humans. It is recommended that when cutting and handling wood products, normal precautionary steps should be practiced as stated in this MSDS.