

**Laminated Veneer Lumber (LVL)**

**SECTION 1: Identification of the substance/mixture and of the supplier**

**Product name:** Laminated Veneer Lumber (LVL)

**Manufacturer/Supplier Trade name:** RigidLam® LVL

**Manufacturer/Supplier Article number:**

**Recommended uses of the product and restrictions on use:** Building Material - Structural

**Manufacturer Details:**

Roseburg  
P. O. Box 1088  
Roseburg, Oregon 97470  
541-679-3311

**Supplier Details:**

Roseburg  
P. O. Box 1088  
Roseburg, Oregon 97470  
541-679-3311

**Emergency telephone number:**

Roseburg: 541-679-3311

**SECTION 2: Hazards identification**

**Classification of the substance or mixture:**

Not classified for physical or health hazards under GHS.  
Hazards Not Otherwise Classified - Combustible Dust.

**Hazard statements:**

**Precautionary statements:**

If medical advice is needed, have product container or label at hand.  
Read label before use.  
Do not eat, drink or smoke when using this product.

**Combustible Dust Hazard:**

May form combustible dust concentrations in air (during processing).

**Other Non-GHS Classification:**

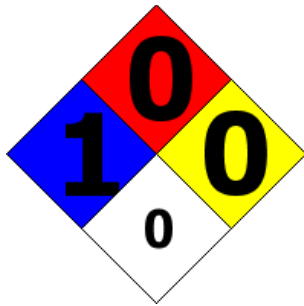
WHMIS

D2A



NFPA/HMIS

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NFPA SCALE (0-4)

Health	<b>1</b>
Flammability	<b>0</b>
Physical Hazard	<b>0</b>
Personal Protection	<b>X</b>

HMIS RATINGS (0-4)

**SECTION 3: Composition/information on ingredients**

Ingredients:		
CAS n/a	Wood	95 %
CAS 9003-35-4	Phenol Formaldehyde Resin	4 – 5%
CAS n/a	LVL Structural seal (F)	0.1 %
Percentages are by weight		

**SECTION 4: First aid measures**

**Description of first aid measures**

**After inhalation:** Loosen clothing as necessary and position individual in a comfortable position. Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Get medical assistance if cough or other symptoms appear.

**After skin contact:** Rinse/flush exposed skin gently using soap and water for 15-20 minutes. Seek medical advice if discomfort or irritation persists. Wood dust of certain species may elicit allergic contact dermatitis in sensitized individuals and can cause mechanical irritation.

**After eye contact:** Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned.

**After swallowing:** Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort or vomiting persists. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed:**

Irritation, nausea, headache, shortness of breath.

**Indication of any immediate medical attention and special treatment needed:**

If seeking medical attention, provide SDS document to physician. Physician should treat symptomatically.

**SECTION 5: Firefighting measures**

**Extinguishing media**

**Suitable extinguishing agents:** Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition. Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

**For safety reasons unsuitable extinguishing agents:**

**Special hazards arising from the substance or mixture:**

Thermal decomposition can lead to release of irritating gases and vapors. FIRE can result in carbon dioxide,

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carbon monoxide, oxides of nitrogen, aldehydes, cyanides and other hazardous gases and particles. Fine wood dust may be generated with the chips are ground or further machined. Fine wood dust can be explosive in the presence of an ignition source depending on particle size and moisture content. Airborne concentrations of 40 grams per cubic meter are often used as the lower explosive limit (LEL) for wood dusts. OSHA interprets the explosive level as having no visibility within five feet or less.

**Advice for firefighters:**

**Protective equipment:** Use NIOSH-approved respiratory protection/breathing apparatus.

**Additional information (precautions):** Move product containers away from fire or keep cool with waterspray as a protective measure, where feasible. Use spark-proof tools and explosion-proof equipment. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes, and clothing.

**SECTION 6: Accidental release measures****Personal precautions, protective equipment and emergency procedures:**

Wear protective equipment. Use spark-proof tools and explosion-proof equipment. Ensure that air-handling systems are operational. Ensure adequate ventilation.

**Environmental precautions:**

Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13. Should not be released into environment.

**Methods and material for containment and cleaning up:**

Keep in suitable closed containers for disposal. Always obey local regulations. Wood dust generated from sawing, sanding, or machining may be vacuumed or shoveled for recovery or disposal. Avoid dusty conditions and provide good ventilation. Use NIOSH/MSHA-approved respiratory protection and goggles where exposure limits may be exceeded. Wear protective eyewear, gloves, and clothing. Refer to Section 8. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Collect solids in powder form using vacuum with (HEPA filter).

**Reference to other sections:****SECTION 7: Handling and storage****Precautions for safe handling:**

Minimize dust generation and accumulation. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with eyes, skin, and clothing.

**Conditions for safe storage, including any incompatibilities:**

Store away from incompatible materials. Protect from freezing and physical damage. Keep away from food and beverages. Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Store in cool, dry conditions in well-sealed containers. Store with like hazards.

**SECTION 8: Exposure controls/personal protection**

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**Control Parameters:** n/a, Wood Dust, OSHA PEL TWA (Total Dust) 15 mg/m<sup>3</sup> (50 mppcf\*)  
n/a, Wood Dust, ACGIH TLV TWA (inhalable particles) 1 mg/m<sup>3</sup>  
50-00-0, Formaldehyde, OSHA PEL:TWA 0.75mg/m<sup>3</sup>  
50-00-0, Formaldehyde, ACGIH TLV STEL 0.3 ppm  
n/a, Cured Resin Solids as dust , ACGIH TLV TWA 0.3 ppm

**Appropriate Engineering controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or dusts (total/reparable) below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use under a fume hood

**Respiratory protection:** Not required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment.

**Protection of skin:** Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear protective clothing. Protective Gloves: Cloth, canvas or leather gloves are recommended for protection against mechanical irritation or wood splinters.

**Eye protection:** Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses or goggles are appropriate eye protection.

**General hygienic measures:** Perform routine housekeeping. Wash hands before breaks and at the end of work. Avoid contact with skin, eyes, and clothing. Before wearing wash contaminated clothing.

**SECTION 9: Physical and chemical properties**

<b>Appearance (physical state,color):</b>	Solid	<b>Explosion limit lower:</b> <b>Explosion limit upper:</b>	Not determined Not determined
<b>Odor:</b>	Not Determined	<b>Vapor pressure:</b>	Not determined
<b>Odor threshold:</b>	Not determined	<b>Vapor density:</b>	Not determined
<b>pH-value:</b>	Not Determined	<b>Relative density:</b>	0.40-0.80, variable depends on wood species and moisture
<b>Melting/Freezing point:</b>	Not determined	<b>Solubilities:</b>	<0.1% in water
<b>Boiling point/Boiling range:</b>	Not determined	<b>Partition coefficient (n-octanol/water):</b>	Not determined
<b>Flash point (closed cup):</b>	Not determined	<b>Auto/Self-ignition temperature:</b>	Not determined
<b>Evaporation rate:</b>	Not determined	<b>Decomposition temperature:</b>	Not determined

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<b>Flammability (solid,gaseous):</b>	Not determined	<b>Viscosity:</b>	a. Kinematic: Not determined b. Dynamic: Not determined
<b>Density:</b> Not determined			

**SECTION 10: Stability and reactivity**

**Reactivity:** Nonreactive under normal conditions.  
**Chemical stability:** Stable under normal conditions.  
**Possible hazardous reactions:** None under normal processing.  
**Conditions to avoid:** Incompatible Materials. Avoid open flame. Product may ignite at temperatures in excess of 400F (204C).  
**Incompatible materials:** Concentrated acids or bases will alter the product. Avoid contact with magnesium, aluminum, zinc (galvanized), tin, chromium, brass and bronze. Contact with these materials may generate hydrogen which is explosive. Exposure to elevated temperatures or strong acids or bases will cause polymerization with evolution of formaldehyde, phenol and/or water.  
**Hazardous decomposition products:** Thermal and/or thermal-oxidative decomposition can produce irritating toxic fumes and gases, including carbon monoxide, carbon dioxide, phenol, formaldehyde, sulfur oxides, nitrogen oxides, and hazardous particles.

**SECTION 11: Toxicological information**

<b>Acute Toxicity:</b> No additional information.	
<b>Chronic Toxicity:</b> No additional information.	
<b>Corrosion Irritation:</b> No additional information.	
<b>Sensitization:</b>	No additional information.
<b>Single Target Organ (STOT):</b>	No additional information.
<b>Numerical Measures:</b>	No additional information.
<b>Carcinogenicity:</b>	Wood Dust: Wood Dust Carcinogenicity Listing: Wood dust is listed by NTP known to be a Human Carcinogen (10th Report), IARC Monographs: Wood dust, Group 1 - IARC Group 1: Carcinogenic to humans; sufficient evidence of carcinogenicity. This classification is primarily based on studies showing an association between occupational exposure to wood dust and adenocarcinoma of the nasal cavities and paranasal sinuses. IARC did not find sufficient evidence of an association between occupational exposure to wood dust and cancers of the hypopharynx, oropharynx, lymphatic and hematopoietic systems, lungs, stomach, colon or rectum. Formaldehyde: Formaldehyde is listed by IARC as Carcinogenic to Humans (Group 1) for sufficient evidence that formaldehyde causes nasopharyngeal, a rare cancer in humans, and "limited evidence" for cancer of nasal cavity and sinuses, and a "strong but not sufficient evidence" for leukemia. NTP included formaldehyde in the annual report on carcinogens. OSHA regulated formaldehyde as a potential carcinogen.
<b>Mutagenicity:</b>	No additional information.
<b>Reproductive Toxicity:</b>	No additional information.

**SECTION 12: Ecological information**

**Laminated Veneer Lumber (LVL)****Eco toxicity Persistence and degradability:****Bio accumulative potential:****Mobility in soil:****Other adverse effects:****SECTION 13: Disposal considerations****Waste disposal recommendations:**

Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as unused product. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

**SECTION 14: Transport information****UN-Number**

Not Regulated.

**UN proper shipping name**

Not Regulated.

**Transport hazard class(es)****Packing group:** Not Regulated.**Environmental hazard:****Transport in bulk:****Special precautions for user:****SECTION 15: Regulatory information****United States (USA)****SARA Section 311/312 (Specific toxic chemical listings):**

Acute, Chronic

**SARA Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

**RCRA (hazardous waste code):**

None of the ingredients are listed.

**TSCA (Toxic Substances Control Act):**

All ingredients are listed.

**CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):**

50-00-0 Formaldehyde

**Proposition 65 (California):****Chemicals known to cause cancer:**

n/a Wood Dust

50-00-0 Formaldehyde

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for males:**

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None of the ingredients are listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

**California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):**

Title 22 California Code of Regulations requires that a clear and reasonable warning be given before exposure to chemicals listed by the State of California as causing cancer or reproductive toxicity. Wood dust and Formaldehyde is on California's list of chemicals known to the State to cause cancer.

**Prop 65 WARNING:**

***Drilling, sawing, sanding or machining wood products generates wood dust and other substances known to the State of California to cause cancer. Avoid inhaling dust generated from wood products or use a dust mask or other safeguards for personal protection. Wood products emit chemicals known to the State of California to cause birth defects or other reproductive harm.***

**Canada****Canadian Domestic Substances List (DSL):**

All ingredients are listed.

**Canadian NPRI Ingredient Disclosure list (limit 0.1%):**

None of the ingredients are listed.

**Canadian NPRI Ingredient Disclosure list (limit 1%):**

None of the ingredients are listed.

**SECTION 16: Other information**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material. Roseburg RigidLam® LVL is manufactured to the U.S. Structural Composite Lumber (SCL) standard, ASTM D 5456. This standard requires the use of exterior exposure, moisture resistant adhesives. All grades of RigidLam® LVL are manufactured with phenol-formaldehyde based adhesive systems and contain no added urea-formaldehyde resins. These exterior exposure adhesives form a chemically stable bond that emits such low amounts of formaldehyde gas it is often indistinguishable from background levels. Because these adhesives have long demonstrated very low emission levels, there are no U.S. standards or regulations governing formaldehyde emissions for laminated veneer lumber. California Air Resources Board (CARB) Regulation Section 93120.1 Definition (8) specifically exempts Structural Composite Lumber that is manufactured to the requirements of ASTM D 5456-06. The federal law regarding formaldehyde emissions, which goes into effect in 2013, takes the same stance as CARB and specifically exempts SCL, which includes LVL. LVL is also exempt from the U.S. HUD Manufactured Housing Standard because it is not a plywood or particle board product and is manufactured with a phenolic adhesive system.

**GHS Full Text Phrases:**

**Laminated Veneer Lumber (LVL)****Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals  
ACGIH: American Conference of Governmental Industrial Hygienists  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
WHMIS: Workplace Hazardous Materials Information System (Canada)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
CFR: Code of Federal Regulations (USA)  
SARA: Superfund Amendments and Reauthorization Act (USA)  
RCRA: Resource Conservation and Recovery Act (USA)  
TSCA: Toxic Substances Control Act (USA)  
NPRI: National Pollutant Release Inventory (Canada)  
DOT: US Department of Transportation

**Effective date:** 10.24.2014**Last updated:** 05.31.2015