

MSDS

Material Safety Data Sheet

Moreland Company USA
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Sarasota, FL 34239

(941) 953-9663



Product: Hardwood Plywood Underlayment

Trade Name: UltraplyXL® Premium Underlayment

Description: Hard wood veneers bonded together using exterior grade glue

Synonyms: Marine Exterior

Plywood Fact sheet is for products that have not been finish coated, Laminated, or overlaid, or treated. For example, preservation and/or fire retardant

Composition of Ingredients

Chemical Name/Synonyms	Percentage	OSHA PEL	OSHA STEL	ACGIH TLV-TWA	ACGIH TLV-STEL
Hardwood Dust:	0 – 11 %	5 mg/m ³	10 mg/m ³	5 mg/m ³	5 mg/m ³
Formalhyde	Trace >0.01%	0.01 ppm	0.01 ppm	N/A	0.01 ppm (C)

Note:

OSHA	Occupational Safety & Health Administration	ACGIH	American Conference of Governmental Industrial Hygienists
PEL	Permissible Exposure Limit	TWA	Time Weighted Average
TLV	Threshold Limit Value	STEL	Short Term Exposure Limit
Wood Dust	Particles generated by any manual or mechanical cutting abrasion process performed on wood	Formaldehyde	Most hardwood plywood is bonded with phenol-formaldehyde resin. Products may release very small quantities of formaldehyde (Trace >0.1%)
(Case No. 50-00-0) In gaseous form, Emissions are below 0.1 PPM and decrease through time, as the panel ages			
NOTE: These products are manufactured using phenol-formaldehyde thermoset resin. Maximum indoor formaldehyde levels associated with freshly manufactured panels are similar to outdoor background levels in urban areas. (Less than 0.1 PPM; and levels decrease through time as the panel's age.) HUD APPROVED			

Physical Data

Fire and Explosion Data

Boiling Point	N/A	Flash Point	N/A
Specific Gravity (H₂O=1)	0.40 – 0.80	Auto Ignition	N/A (Will depend upon duration of exposure to heat source and other variables)
Vapor Density	N/A	Explosive Limits in air	See below "Unusual fire and explosion hazards"
% Volatile By Volume	N/A	Extinguishing Media	Water, Carbon Dioxide, Sand
Melting Point	N/A	Special Fire fighting Precautions	None
Vapor Pressure	N/A	Unusual Fire and Explosion hazards	Sawing, Machining, or sanding can produce sawdust as a by-product, which may present an explosion hazard if a dust cloud contacts an ignition source. An airborne concentration of 40 grammes of dust per cubic meter of air is often used as LEL for wood
Solubility in H₂O % by Weight	0.1%	Reactivity Data	
Evaporation Rate	N/A	Hazardous Polymerization	N/A
PH	N/A	Conditions contributing to instability	Stable under normal conditions
Appearance	Light Color	Incompatibility	Avoid contact with oxidizing agents. Avoid open flame. Product may ignite in excess of 400 degrees Fahrenheit.
		Hazardous Decomposition Products	Stable Composition Conditions to Avoid – N/A Thermo oxidative degeneration of wood produces irritating and toxic fumes and gasses including CO, aldehydes, and organic acids.

Inhalation

Wood Dust	May cause nasal dryness, irritation and obstruction. Coughing, wheezing and sneezing; sinusitis and prolonged colds have also been reported. Wood dust, depending on species, may cause dermatitis on prolonged, repetitive contact; may cause respiratory sensitization and/or irritation. IARC classifies wood dust as a carcinogen to humans (Group 1). 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 cancer of the oropharynx, hypopharynx, lung lymphatic and hematopoietic system, stomach, colon, or rectum with exposure to wood dust.
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Health Effects Information (Exposure Limits)

Formaldehyde	OSHA PEL – TWA: 0.01 ppm OSHA PEL – STEL: 0.01 ppm ACGIH TLV – CEILING: 0.01 ppm
Wood Dust	OSHA 1989 PEL – TWA: 5 mg/m ³ OSHA 1989 PEL – STEL: 10 mg/m ³
Formaldehyde Emission	Allowed value 0.1 ppm. Measured value with this product 0.05 ppm (According to standard EN 120)
Eye Contact	Wood dust can cause mechanical irritation
Skin Contact	Various species of wood dust may evoke allergic contact dermatitis in sensitive individuals.
Burning	According to the ISO/DIS 5660 tests, the toxicity index of fire effluents was small, but there are compounds in smoke gases, which can cause irritation to eyes, nose and throat.
Ingestion	Not likely to happen.

Precautions and Safe Handling

Heat	In higher temperature (>212 degrees Fahrenheit) there may build up noxious gasses. Then provide good ventilation.
Wood Dust	Avoid dusty conditions and provide good ventilation
Ventilation	Provide adequate general and local exhaust ventilation to keep airborne contaminate concentration levels below the OSHA PELS.
Personal Protective Equipment	Wear goggles or safety glasses when manufacturing or machining the product. Wear NIOSA/MSHA approved respirator when the allowable exposure limits may be exceeded. Other protective equipment such as gloves and outer garments may be needed depending on dust conditions.

Emergency and First Aid Procedures

Eyes	Flush eyes with large amounts of water. Remove to fresh air. If irritation persists, get medical attention.
Skin	Wash affected areas with soap and water. Get medical advice if rash or persistent irritation or dermatitis occurs
Inhalation	Remove to fresh air. Get medical advice if persistent irritation, severe coughing or breathing difficulty occurs
Ingestion	N/A

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