



# LOUISIANA PACIFIC CORPORATION MSDS – 010

Doorskin and Industrial Panels – East River

## 1. PRODUCT AND COMPANY INFORMATION

Product Code: Not applicable  
Product Name: Hardboard Doorskin and Industrial Panels  
Brand Names:

Louisiana-Pacific, 805 SW Broadway, Portland, Oregon 97205  
Telephone: (503) 821-5100

## 2. COMPOSITION AND INGREDIENT INFORMATION

Component <sup>(1)</sup>	CAS #	Exposure Limits	Cancer Designation
Wood Dust	NA	TLV-TWA = 1 mg/m <sup>3</sup>	TLV-A1, MAK-1, NIOSH-Ca, NTP-K
Phenol-Formaldehyde Resin – (solid)	NA	PNOS <sup>(2)</sup>	
Phenol-Formaldehyde Resin – (liquid)			
Phenol	108-95-2	PEL-TWA = 5 ppm	MAK-3B
Formaldehyde	50-00-0	PEL-TWA = 0.75 ppm TLV-C = 0.3 ppm	EPA-B1, IARC-2A, NIOSH-Ca, NTP-R, OSHA-Ca, TLV-A2
Paraffin Wax	64742-61-6	2 mg/m <sup>3</sup> wax fume	
Base and Topcoats <sup>(3)</sup>			
2-Butoxyethanol	111-76-2	TLV-TWA = 20 ppm	EPA-C
Formaldehyde	50-00-0	PEL-TWA = 0.75 ppm TLV-C = 0.3 ppm	EPA-B1, IARC-2A, NIOSH-Ca, NTP-R, OSHA-Ca, TLV-A2
Isopropanol	67-63-0	TLV-TWA = 200 ppm	
Trimethylolpropane	77-99-6	None available	

- (1) Trace amounts of diethylaminoethanol spray release agent and aluminum sulfate may be present.
- (2) PNOS: PEL-TWA = 15 mg/m<sup>3</sup>, total dust; PEL-TWA = 5 mg/m<sup>3</sup>, respirable fraction; TLV-TWA = 10 mg/m<sup>3</sup> inhalable particulate, 3 mg/m<sup>3</sup> respirable particulate.
- (3) Products may be uncoated or finished. Finished products have base and topcoats. Cured base and topcoats do not contain significant residual amounts of volatile solvents.

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

Contact with strong oxidizers or exposure to temperatures greater than 400<sup>0</sup>F may cause a fire. Smoke may contain carbon monoxide, aldehydes, and other toxic materials. Airborne wood and resin dust may explode when combined with an ignition source.

### Potential Health Effects (based on expected use of product)

**EYE:** Dust may irritate the eyes.

**SKIN:** Dust may cause skin irritation.

**INGESTION:** Not known.

**INHALATION:** Dust can cause irritation to mucous membranes and the upper respiratory tract. Wood dust and formaldehyde are considered carcinogens.



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### 4. FIRST AID MEASURES

**EYES:** For dust exposure, immediately flush eyes with plenty of water for at least 15 minutes.

**SKIN:** Wash with soap and water. Get medical attention if irritation develops or persists.

**INGESTION:** Consult a physician.

**INHALATION:** Remove to fresh air, consult a physician.

**NOTE TO PHYSICIANS:** Exposure to dust may aggravate symptoms of persons with pre-existing respiratory tract conditions and may cause skin and gastrointestinal symptoms.

### 5. FIRE FIGHTING MEASURES

**FLAMMABLE PROPERTIES:**

Flash point: Not applicable.

Combustible: Material may burn on contact with oxidizers or ignition sources.

**FLAMMABLE LIMITS:**

Lower flammable limit: Not applicable.

Upper flammable limit: Not applicable.

**AUTOIGNITION TEMPERATURE:** Typically 400-500° F.

**EXPLOSION HAZARD:** Airborne concentrations of combustible dust, when combined with an ignition source, can create an explosion hazard if the dust concentration exceeds 30 - 60 g/m<sup>3</sup>.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon dioxide, carbon monoxide, nitrogen oxides, aldehydes, cyanides, and other hazardous gases, vapors, and particles.

**EXTINGUISHING MEDIA:** Water, dry chemical and other agents rated for a wood fire (Type A fire). Use an extinguisher rated for a Type A fire.

**FIRE FIGHTING INSTRUCTIONS:** Evacuate the area and notify the fire department. If possible isolate the fire by moving other combustible materials. If the fire is small, use a hose-line or extinguisher rated for a Type A fire. If possible, dike and collect water used to fight fires. Fire fighters should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

Does not apply.

### 7. HANDLING AND STORAGE

**HANDLING:** Provide ventilation or other measures so that dust levels are below the exposure limits listed in Section 2.

**STORAGE:** Keep dust away from ignition sources and store in a closed container. Consult NFPA 68 and 70 for additional information.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Control airborne dust concentrations below the exposure limits. Use only with adequate ventilation.

**RESPIRATORY PROTECTION:** When respiratory protection is required, or dust concentrations are unknown, use a NIOSH/MSHA approved air-purifying respirator for dusts.

**SKIN PROTECTION:** Wear work gloves to prevent skin irritation.

**EYE PROTECTION:** Wear ANSI approved eye protection.



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## 9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT:	NA	DENSITY:	28 - 70 lb/ft <sup>3</sup>
MELTING POINT:	NA	pH:	NA
VAPOR PRESSURE:	NA	ODOR:	Slightly aromatic
VAPOR DENSITY:	NA	APPEARANCE:	1/8" and 1/4" hardboard uncoated or prefinished
SOLUBILITY IN WATER:	NA		

## 10. STABILITY AND REACTIVITY

**CHEMICAL STABILITY:** (CONDITIONS TO AVOID) Stable.

**INCOMPATIBILITY:** Keep away from high temperatures and strong oxidizers, such as concentrated nitric acid, oxygen, hydrogen peroxide, and chlorine.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, hydrogen cyanide, and other products of wood combustion.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION FOR WOOD DUST AND FORMALDEHYDE

### WOOD DUST

Wood dust is known to be a human carcinogen. An increased incidence of adenocarcinoma of the nasal cavities and paranasal sinuses was observed in studies of people whose occupations are associated with wood dust exposure. (10<sup>th</sup> Edition of the National Toxicology Program's Report on Carcinogens) Wood dust from some tree species may induce sensitization.

### FORMALDEHYDE

See Section 2 for carcinogenicity categories.

**Teratology (Birth Defect) Information:** NA.

**Reproduction Information:** Reproductive effects in animals have been reported in RTECS for formaldehyde.

**Sensitizer:** Exposure to low doses of formaldehyde may cause sensitization.

## 12. ECOLOGICAL INFORMATION

These wood products are not expected to pose an ecological hazard as a result of their intended uses.

## 13. DISPOSAL CONSIDERATIONS

Dispose of waste according to local, state/provincial, and federal requirements.

## 14. TRANSPORTATION INFORMATION - Hazardous Materials Table 172.101

Shipping Name	NA	Packing Group	NA
Hazard Class	NA	Placards/Labels	NA
Identification No.	NA	Special Provisions	NA

## 15. REGULATORY INFORMATION

OSHA: Hazard Communication	CFR 1910.1200 (b)(6)(iv)	CERCLA RQ:	NA
EPCRA EHS RQ Section 302:	NA	EPA CAA Section 112(r)	NA
EPCRA Section 313:	NA	Uniform Fire Code	NA



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## 16. OTHER INFORMATION

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## ABBREVIATIONS:

ANSI	American National Standards Institute
ASTM	American Society for Testing and Materials
C	Ceiling
CAA	Clean Air Act
CAS	Chemical Abstract Services (identifies specific chemical)
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CFR	Code of Federal Regulations
Dust	A finely divided solid 0.017 in. or less in diameter that is capable of passing through a U.S. No. 40 standard sieve
EHS	Extremely Hazardous Substance
EPA-B1	Environmental Protection Agency-Limited evidence of carcinogenicity from epidemiological studies
EPA-C	Possible Human Carcinogen
EPCRA	Emergency Planning and Community Right-To-Know Act
IARC-2A	International Agency for Research on Cancer-Probably Carcinogenic to Humans
g/m <sup>3</sup>	Grams per cubic meter
mg/m <sup>3</sup>	Milligrams per cubic meter
lb/ft <sup>3</sup>	Pounds per cubic foot
MAK-1	Substances which cause cancer in man
MAK-3B	Substances for which <i>in vitro</i> tests or animal studies have yielded evidence of carcinogenic effects
MSHA	Mine Safety Health Act
NA	Not applicable
NFPA	National Fire Protection Association
NIOSH-Ca	National Institute of Occupational Safety and Health-Potential occupational carcinogen, with no further categorization
NTP-K	National Toxicology Program-Known to be a carcinogen
NTP-R	National Toxicology Program-Reasonably anticipated to be a carcinogen
OSHA-Ca	Occupational Safety and Health Administration-Carcinogen defined with no further categorization
PNOS	Particle not otherwise specified
PEL	OSHA Permissible Exposure Limit
ppm	Parts per million
RTECS	Registry of Toxic Effects of Chemical Substances
RQ	Reportable Quantity
TLV-A1	Threshold Limit Value-Confirmed Human Carcinogen
TLV-A2	Threshold Limit Value-Suspected Human Carcinogen
TWA	8-hour time-weighted average exposure

## BIBLIOGRAPHY:

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5. Integrated Risk Information System, EPA, on-line.
6. EPA Title III List of Lists.
7. Handbook of Fire Protection Engineering, 2<sup>nd</sup> Edition.
8. 49 CFR 172.101, Hazardous Materials Table, from Chempendium. Q1, 2003.
9. Documentation of the TLVs®, American Conference of Governmental Industrial Hygienist, 2002.
10. 10<sup>th</sup> Edition of the National Toxicology Program's Report on Carcinogens, 2002.
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