

MATERIAL SAFETY DATA SHEET - 012

Canoxel™ Prefinished Exterior Hardboard Lap Siding

1. PRODUCT AND COMPANY INFORMATION

Product Code: Not applicable
 Product Name: Canoxel™ Prefinished Exterior Hardboard Lap Siding
 Brand Names:

Louisiana-Pacific, 111 SW Fifth Avenue, Portland, Oregon 97204
Telephone: (503) 821-5100

2. COMPOSITION AND INGREDIENT INFORMATION

Component	CAS #	Exposure Limits	Cancer Designation
Wood Dust ⁽¹⁾ (hardwoods and softwoods)	N/A	Beech and Oak TLV-TWA = 1 mg/m ³ Softwoods TLV-TWA = 5 mg/m ³ TLV-STEL = 10 mg/m ³	Beech and Oak TLV-A1, MAK-1, NIOSH-X Softwoods MAK-3, NIOSH-X
Phenol-Formaldehyde Resin (cured) Phenol Formaldehyde	108-95-2 50-00-0	PNOC ⁽³⁾ PEL-TWA = 5 ppm PEL-TWA = 0.75 ppm TLV-C = 0.3 ppm	MAK-3 CA, EPA-B1, IARC-2A, MAK-3, NIOSH-X, NTP-R, OSHA-X, TLV-A2
Paraffin Wax	84742-81-8	2 mg/m ³ wax fume	
PrePress Sealer ⁽²⁾ Resin (cured) Crystalline silica Ethylene glycol Formaldehyde	14808-60-7 107-21-1 50-00-0	PNOC ⁽³⁾ TLV-TWA = 0.1 mg/m ³ TLV-C = 100 mg/m ³ See above	IARC-1, NIOSH-X, NTP-R See above
Basecoat ⁽²⁾ Resin (cured) 2-Butoxyethanol Crystalline silica Isopropyl alcohol Toluenesulfonic acid Triethylamine	111-76-2 14808-60-7 67-63-0 5231-46-3 121-44-8	PNOC ⁽³⁾ TLV-TWA = 20 ppm (skin) TLV-TWA = 0.1 mg/m ³ TLV-TWA = 400 ppm TLV-STEL = 500 ppm NE TLV-TWA = 1 ppm (skin) TLV-STEL = 3 ppm	IARC-1, NIOSH-X, NTP-R
Topcoat ⁽²⁾ Resin (cured) Formaldehyde 2-Butoxyethanol Hexylene glycol Ethanol Methanol Ethylene glycol Dimethylaminoethanol Ethyl hexyl alcohol 2-Benzisothiazoline Petroleum hydrocarbon Methanesulfonic Acid	50-00-0 111-76-2 107-41-5 64-17-5 67-56-1 107-21-1 108-01-0 104-76-7 NE NE 75-75-2	PNOC ⁽³⁾ See above TLV-TWA = 20 ppm (skin) TLV-C = 25 ppm TLV-TWA = 1000 ppm TLV-TWA = 200 ppm (skin) TLV-STEL = 250 ppm TLV-C = 100 mg/m ³ NE NE NE NE NE	See above

(1) Siding is manufactured from wood fibers. Wood dust is generated during cutting and sanding operations.

(2) Cured sealer, base, and topcoats do not contain significant residual amounts of volatile solvents.

(3) (PNOC): PEL-TWA = 15 mg/m³, total dust; PEL-TWA = 5 mg/m³, respirable fraction; TLV-TWA = 10 mg/m³ inhalable particulate, 3 mg/m³ respirable particulate.

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3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Contact with strong oxidizers or exposure to temperatures greater than 200⁰ 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.

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 200-260 °C.

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/m³.

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.

Effective Date: Draft 5-24-01

Replaces: Draft 5-7-01

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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.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: NA
MELTING POINT: NA
VAPOR PRESSURE: NA
VAPOR DENSITY: NA

DENSITY: .95–1.10 gms/cc
pH: NA
ODOR: Slight to none
APPEARANCE: 3/8" or 7/16" hardboard substrate with baked on coatings. 12 ft strips in widths of 6", 9", and 12".

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

WOOD DUST

See Section 2 for carcinogenicity categories.

FORMALDEHYDE

See Section 2 for carcinogenicity categories.

Teratology (Birth Defect) Information: No hazards reported.

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

Sensitizer: Exposure to low doses of formaldehyde may cause an allergic reaction.

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

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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

WHMIS Classification: Not Regulated (Manufactured Article)

16. OTHER INFORMATION

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ABBREVIATIONS:

ANSI	American National Standards Institute
ASTM	American Society for Testing and Materials
C	Ceiling
CA	Contains a chemical known to the State of California to cause cancer and/or birth defects or reproductive harm
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-CBD	Environmental Protection Agency-Carcinogenicity cannot be determined
EPCRA	Emergency Planning and Community Right-To-Know Act
IARC-1	International Agency for Research on Cancer-Carcinogenic to Humans
IARC-2A	International Agency for Research on Cancer-Probably Carcinogenic to Humans
g/m ³	Grams per cubic meter
mg/m ³	Milligrams per cubic meter
MAK-1	Substances which cause cancer in man
MAK-3	Substances which cause concern that they could be carcinogenic for man
MSHA	Mine Safety Health Act
NE	Not established
NFPA	National Fire Protection Association
NIOSH-X	National Institute of Occupational Safety and Health-Carcinogen defined with no further categorization
NTP-R	National Toxicology Program-Reasonably Anticipated To Be A Human Carcinogen
OSHA-X	Occupational Safety and Health Administration-Carcinogen defined with no further categorization
PNOC	Particle not otherwise classified
PEL	OSHA Permissible Exposure Limit
ppm	Parts per million
ppt	Parts per trillion
RTECS	Registry of Toxic Effects of Chemical Substances
RQ	Reportable Quantity
STEL	Short-Term Exposure Limit
TLV	Threshold Limit Value
TLV-A1	Threshold Limit Value-Confirmed Human Carcinogen
TLV-A2	Threshold Limit Value-Suspected Human Carcinogen
TWA	8-hour time-weighted average exposure

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4. Hazardous Substances Data Bank, Canadian Centre for Occupational Health and Safety, Q-1, 1998.
5. Integrated Risk Information System, EPA, on-line.
6. Toxicological Profiles, Agency for Toxic Substances and Disease Registry, U.S. Public Health Service, 1997.
7. EPA Title III List of Lists.
8. Handbook of Fire Protection Engineering, 2nd Edition.
9. 49 CFR 172.101, Hazardous Materials Table, 10-1-98 Edition.



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