

# MATERIAL SAFETY DATA SHEET - 020

## WeatherBest® Composite Decking & Railing

### 1. PRODUCT AND COMPANY INFORMATION

Product Code: Not applicable  
Product Name: Decking and Railing  
Brand Names: WeatherBest® Composite Decking & Railing

Louisiana-Pacific, 414 Union Street, Suite 2000, Nashville, Tennessee 37219  
Telephone: (615) 986-5600

### 2. COMPOSITION AND INGREDIENT INFORMATION

Component	CAS #	Exposure Limits	Cancer Designation
Wood Flour (softwood)	None	TLV-TWA = 5 mg/m <sup>3</sup> TLV-STEL = 10 mg/m <sup>3</sup>	MAK-3B, NIOSH-Ca
High Density Polyethylene	9002-88-4	PNOS <sup>(1)</sup>	
Zinc Borate Hydrate	138265-88-0	15 mg/m <sup>3</sup> (PNOS) (OSHA PEL TWA)	
Zinc Stearate	557-05-1	15 mg/m <sup>3</sup> OSHA PEL TWA (total dust) 5 mg/m <sup>3</sup> OSHA PEL TWA (respirable fraction)	
Phenol-formaldehyde resin	9003-35-4		
Talc	14807-96-6	TLV-TWA = 2 mg/m <sup>3</sup> respirable fraction	
Proprietary Pigments <sup>(2)</sup>		TLV-TWA = 5 mg/m <sup>3</sup>	NIOSH-Ca

(1) 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. Dust created by sawing, sanding or grinding.

(2) One or more pigments may be present depending on the color of the decking or railing.

### 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 plastic 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 is considered a carcinogen.

### 4. FIRST AID MEASURES

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

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**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.

### 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:	None
VAPOR DENSITY:	NA	APPEARANCE:	Shiny solid, various colors
SOLUBILITY IN WATER:	NA		

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### 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 TITANIUM DIOXIDE

#### WOOD DUST (softwood) and TITANIUM DIOXIDE

Wood dust and titanium dioxide have been classified NIOSH-Ca or "Potential occupational carcinogen, with no further categorization".

**Teratology (Birth Defect) Information:** No hazards reported.

**Reproduction Information:** No hazards reported.

**Sensitizer:** No hazards reported.

### 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

### 16. OTHER INFORMATION

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### ABBREVIATIONS:

ANSI	American National Standards Institute
ASTM	American Society for Testing and Materials
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
EPCRA	Emergency Planning and Community Right-To-Know Act
F	Fahrenheit
g/m <sup>3</sup>	Grams per cubic meter
lb/ft <sup>3</sup>	Pounds per cubic foot
mg/m <sup>3</sup>	Milligrams per cubic meter
MAK-3B	Substances for which in <i>vitro</i> tests or animal studies have yielded evidence of carcinogenicity
MSHA	Mine Safety Health Act
NFPA	National Fire Protection Association
NIOSH-Ca	National Institute of Occupational Safety and Health-Potential occupational carcinogen, with no further categorization
PEL	Permissible exposure limit.
PNOS	Particulates Not Otherwise Specified
ppm	Parts per million
RTECS	Registry of Toxic Effects of Chemical Substances
RQ	Reportable Quantity
STEL	Short-Term Exposure Limit
TLV	Threshold Limit Value
TWA	8-hour time-weighted average exposure

### BIBLIOGRAPHY:

1. Guide to Occupational Exposure Values, American Conference of Governmental Industrial Hygienists, 2001.
2. Registry of Toxic Effects of Chemical Substances, National Institute for Occupational Safety and Health, Q-3, 2001.
3. Dangerous Properties of Industrial Materials, Sax's, 1998 CD-Folio.
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, 2<sup>nd</sup> Edition.
9. 49 CFR 172.101, Hazardous Materials Table, 10-1-98 Edition.
10. TLVs and other Occupational Exposure Values, American Conference of Governmental Industrial Hygienists, 2001.

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