

Material Safety Data Sheet

Material Name: PolyBak

*** Section 1 - Chemical Product and Company Identification ***

Manufacturer Information

Richwood Industries, Inc.
2700 Buchanan, SW
Grand Rapids, MI 49548

Phone: 616-243-2700

*** Section 2 - Hazards Identification ***

Emergency Overview

May cause eye and respiratory tract irritation.

Potential Health Effects: Eyes

Dust may mechanically irritate the eyes, resulting in redness or watering. Treat dust in eye as foreign object. Flush with water to remove dust particle. Get medical help if irritation persists.

Potential Health Effects: Skin

Not applicable for product in purchased form. Get medical help if rash, irritation, or dermatitis persists.

Potential Health Effects: Ingestion

Not applicable under normal use.

Potential Health Effects: Inhalation

Excessive dust concentrations may cause unpleasant deposit/obstruction in the nasal passages, resulting in dryness of nose, dry cough and headaches. Remove to fresh air. Get medical help if persistent irritation, severe coughing, or breathing difficulty occurs.

Medical Conditions Aggravated by Exposure

Cellulosic dust may aggravate pre-existing respiratory conditions or allergies.

HMIS Ratings: Health: 1 Fire: 0 HMIS Reactivity 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component	Percent
9004-34-6	Cellulose	70-90
Not Available	Polyurea	10-36

*** Section 4 - First Aid Measures ***

First Aid: Eyes

Immediately flush eyes with plenty of water for at least 15 minutes.

First Aid: Skin

If irritation persists, get medical attention.

First Aid: Ingestion

If the material is swallowed, get immediate medical attention or advice.

First Aid: Inhalation

Move person to non-contaminated air.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards

See Section 9 for Flammability Properties.

Depending on moisture content, particle diameter, and rate of heating, cellulose dust may explode in the presence of an ignition source. An airborne concentration of 30,000 mg/m³ is often used as the LEL for cellulose pulp.

Hazardous Combustion Products

Combustion products include carbon monoxide and carbon dioxide.

Extinguishing Media

Water, carbon dioxide, sand

Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

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NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Containment Procedures

Not applicable for product in purchased form.

Clean-Up Procedures

Cellulosic dust may be swept or vacuumed for recovery or disposal. Avoid dusty conditions and provide adequate ventilation. Use NIOSH/MSHA approved respirator and goggles where ventilation is not possible.

Evacuation Procedures

Isolate area. Keep unnecessary personnel away.

Special Procedures

None.

*** Section 7 - Handling and Storage ***

Handling Procedures

No special handling procedures necessary.

Storage Procedures

Keep in cool, dry place away from open flame.

*** Section 8 - Exposure Controls / Personal Protection ***

A: Component Exposure Limits

Cellulose (9004-34-6)

ACGIH: 10 mg/m³ TWA

OSHA: 15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)

NIOSH: 10 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable dust)

Engineering Controls

Use general ventilation.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Not applicable for product in purchased form. Safety glasses are recommended when shredding this product.

Personal Protective Equipment: Skin

Not required. However, cloth, canvas or leather gloves are recommended to minimize potential mechanical irritation from handling products.

Personal Protective Equipment: Respiratory

Not applicable for product in purchased form. A NIOSH/MSHA approved respirator is recommended when the allowable exposure limits may be exceeded.

Personal Protective Equipment: General

None necessary.

*** Section 9 - Physical & Chemical Properties ***

Appearance: Dark brown matrix of polymer material.

Odor: None

Physical State: solid

pH: NA

Vapor Pressure: NA

Vapor Density: NA

Boiling Point: NA

Melting Point: NA

Solubility (H₂O): <0.1%

Specific Gravity: 1.04-1.16

Evaporation Rate: NA

VOC: NA

Octanol/H₂O Coeff.: NA

Flash Point: NA

Flash Point Method: NA

Upper Flammability Limit

(UFL):

Lower Flammability Limit

Burning Rate: NA

(LFL):

Auto Ignition: 400-500°F

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*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

This is a stable material.

Chemical Stability: Conditions to Avoid

None

Incompatibility

Oxidizing agents, open flame. Temperatures in excess of 400°F

Hazardous Decomposition

Combustion products include carbon monoxide and carbon dioxide.

Possibility of Hazardous Reactions

Will not occur.

*** Section 11 - Toxicological Information ***

Acute Dose Effects

A: General Product Information

No information available for the product.

B: Component Analysis - LD50/LC50

Cellulose (9004-34-6)

Inhalation LC50 Rat: >5800 mg/m3/4H; Oral LD50 Rat:>5 g/kg; Dermal LD50 Rabbit:>2 g/kg

Carcinogenicity

A: General Product Information

No information available for the product.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

No information available for the product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

If disposed of or discarded in its purchased form, incineration is preferable dry land disposal is acceptable in most states. It is, however, the user's responsibility to determine at the time of disposal whether your product meets RCRA criteria for hazardous waste. Follow applicable federal, state, or local regulations.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Not Regulated

*** Section 15 - Regulatory Information ***

US Federal Regulations

Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

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State Regulations

Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Cellulose	9004-34-6	No	Yes	Yes	Yes	Yes	Yes

Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

Additional Regulatory Information

Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Cellulose	9004-34-6	Yes	DSL	EINECS

* * * Section 16 - Other Information * * *

Other Information

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.