

9. Physical Data

Appearance	Solid linear profiles with polymer cap in various colors
Odor	None
Odor Threshold	Not Established
pH:	Not Applicable
Melting Point	115 to 135°C / 239 to 275°F
Boiling Point	Not Applicable
Flash Point (wood)	> 572°F
Evaporation Rate	Not Applicable
Flammable	No
Combustible (solid)	Yes
Upper/Lower Flammability	Not Applicable
Vapor Pressure	Not Applicable
Vapor Density	Not Applicable
Relative Density	.97 g/cm ³
Solubility in Water	Negligible
Partition Coefficient	Not Established
Auto-ignition Temperature	343°C / 650°F (estimate)
Decomposition Temperature	290°C / 554°F (thermal degradation/ICAC 1400)
Viscosity at 100°C	NA

Product is a mixture of recycled polyethylene and recycled wood with pigment and polymer coating. Mixture normally contains from 43 to 50% polyethylene with 45 to 55% wood fiber.

10. Stability and Reactivity

Reactive:	Non-reactive
Chemical Stability:	Product is stable under normal conditions
Hazardous Reactions:	No hazardous reactions under normal conditions
Conditions to Avoid:	Avoid open flames and excessive heat
Incompatible Materials:	Avoid strong oxidizers
Hazardous Decomposition Products:	Combustion under ambient and sub-stoichiometric conditions will produce smoke, carbon monoxide, acetaldehyde, formaldehyde, formic acid, acetic acid, other hydrocarbon oxidation products, and particulate. Hazardous polymerization will not occur.

11. Toxicological Information

Acute Toxicity:	Oral toxicity LD50 not established. Oral exposure is not a likely route for toxicity.
Skin Corrosion/Irritation:	Skin irritation may result from mechanical abrasion while handling or from exposure to dust.
Skin Sensitization:	Not established
Serious Eye Damage/Irritation:	Dust can cause eye irritation.
Respiratory Sensitization:	Not established
Germ Cell Mutagenicity:	Not established
Carcinogenicity:	Based on available evidence, IARC has determined that wood dust is a human carcinogen when inhaled. IARC has also determined that there is sufficient evidence to classify carbon black as a suspected human carcinogen when inhaled based on animal studies. Exposure to both wood fiber and carbon black is virtually eliminated when they are incorporated into a matrix of plastic in the finished product.
Reproductive Toxicity:	Not Established
STOT – Single Exposure:	Not Established
STOT – Repeated Exposure:	Not Established
Aspiration Hazard:	Dust from cutting or milling product can cause lung and throat irritation. Aspiration is only a hazard when cutting, milling, or otherwise generating dust from the product.
Likely Routes of Exposure:	Exposure to mechanically generated dust, or to smoke generated from burning can cause skin, eye, and nasal or respiratory irritation. These are the most likely routes for harmful exposure.
Symptoms:	Exposure to dust may cause or contribute to temporary skin or eye irritation. Exposure to smoke generated from burning product can cause headaches and dizziness. Remove from smoke area and administer fresh air.

Immediate effects of exposure to dust can include eye irritation and nasal or respiratory irritation. No long-term effects of exposure to product or dust from product are known. Incorporating wood dust and carbon black into a polymer matrix greatly reduces potential for exposure through identified pathways.

Mixture Ingredient Chronic Toxicology

Wood Dust: Based on available evidence, IARC has determined that wood dust causes cancer of the nasal cavity and paranasal sinuses and of the nasopharynx. ⁻³

Wood Dust	mg/m3	Interpretation	Carcinogenicity
IARC (mono100C-15)		Human Carcinogen	Group 1
NIOSH (total)	15	TWA	
NIOSH (resp.)	5	TWA	
OSHA (PEL)	15	STEL – 15 Min.	
OSHA (PEL)	5	TWA	
Alberta (8 Hr. OEL)	5	Total Fraction	
ACGIH (PEL)	1	Inhalable Fraction	
Canada Labour Code	1	OEL	

Carbon Black: IARC has determined that there is sufficient evidence to classify carbon black as possibly carcinogenic to humans when inhaled based on animal studies. ⁻⁴

Carbon Black	mg/m3	Interpretation	Carcinogenicity
ACGIH (TLV)	3.5	TWA	Group A4
NIOSH (REL)	3.5	10-h TWA	
OSHA (PEL)	3.5	TWQ	
IARC		Possible Human Carcinogen	Group 2B
Cal. OSHA	3.5	TWA	

Zinc Borate: OSHA has published permissible exposure limits for total dust and respirable dust not otherwise regulate that are applicable to zinc borate.

Zinc Borate	mg/m3	Interpretation	Carcinogenicity
OSHA	15	PEL (Total Dust)	
OSHA	5	PEL (Respirable Dust)	

Product is a matrix of polyethylene with other ingredients contained or encapsulated within the polyethylene matrix. Due to the structure of the polyethylene matrix, the material is not well suited to create small dust particles when sawn or milled.

3. IARC Monograph 100C-15, Wood Dust

4. IARC Monograph 93-6, Carbon Black

12. Ecological Information

Ecotoxicity:	This material may obstruct digestive tracts of birds or wildlife if particles created by cutting or milling near construction sites are eaten. However, the material should not be toxic to such animals. This material is not expected to leach zinc borate in amounts toxic to fish, aquatic plants, and invertebrate protozoan.
Bioaccumulative:	This material is not bioaccumulative.
Mobility in Soil:	This material is not mobile in soil.
Environmental Fate:	This material is not expected to be readily biodegradable.

13. Disposal Information

Waste Disposal:	Dispose of waste as normal solid waste in accordance with local, state, and national regulations.
Recycling:	The product is recyclable by the manufacturer if returned to the manufacture. Packaging material including plastic sheeting, plastic corners, strapping, wood, and corrugated material are all recyclable if a local recycling/recovery programs exists that accept those materials.
RCRA:	Unused product is not listed by U.S. EPA as a hazardous waste (40 CFR part 261 D) nor is it formulated with materials that are listed as hazardous waste. Product does not exhibit the hazardous characteristics of ignitability, corrosivity, toxicity, or reactivity.

14. Transportation Information

UN Number:	Not a dangerous good.
UN Proper Shipping Name:	Not a dangerous good.
Transport Hazard Class(es):	Not a dangerous good.
Packing Group:	Not a dangerous good.
Environmental Hazard:	Not a known marine pollutant or dangerous good.
Special Precaution for User:	Not a dangerous good.
Transport in Bulk/Annex II of MARPOL 7378 and IBC Code	Not a dangerous good.

15. Regulatory Information

Montreal Protocol:	Not subject to the Montreal Protocol. ⁻⁵
Stockholm Convention:	Not subject to the Stockholm Convention. ⁻⁶
Rotterdam Convention:	Not subject to the Rotterdam Convention. ⁻⁷
TSCA:	All component chemicals are TSCA compliant.
RCRA (C):	Not regulated
CERCLA:	Not regulated
SARA Title III	This product contains no extremely hazardous chemicals.
SARA Title III, Section 313	Zinc Borate is regulated as a Section 313, Form R reportable chemical under the category “zinc compounds”.

5. *Montreal Protocol on Substances that Deplete the Ozone Layer*
6. *Stockholm Convention on Persistent Organic Pollutants*
7. *Rotterdam Convention on Prior Informed Consent Procedure for Certain Hazardous Chemicals*

16. Other Information

This SDS has been prepared to comply with the Global Harmonized System of Classification and Labeling Chemicals, Third Revised Edition adopted in 2009.

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