

# MATERIAL SAFETY DATA SHEET

## TREX® WOOD-POLYMER LUMBER PRODUCTS

MSDSTWP-01

### 1. PRODUCT AND COMPANY IDENTIFICATION

APPROVAL DATE: 03/18/08

**PRODUCT NAME:** TREX® WOOD-POLYMER LUMBER PRODUCTS  
**COLORS:** WOODLAND BROWN  
MADEIRA  
WINCHESTER GREY  
SADDLE  
CAYENNE  
AMBER  
ESPRESSO

**SUPPLIER:** TREX COMPANY, INC  
245 CAPITOL LANE  
WINCHESTER, VA 22602

**PRODUCT AND MSDS INFORMATION :** 800-BUY-TREX

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

**CHEMICAL NAMES AND SYNONYMS:** WOOD FIBER

**INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:**

<u>SUBSTANCE NAME</u>	<u>WT.</u>
WOOD FIBER DUST	50-60
CARBON BLACK (1333-86-4)	<1

**NOTE:** WOOD DUST AND CARBON BLACK ARE CONTAINED IN A POLYETHYLENE MATRIX. Contains used thermoplastics and waste wood. Plastic obtained primarily from reclaimed/recycled grocery bags and stretch film; wood fiber is typically obtained from furniture makers and/or waste pallets. Standard product is approximately 40% - 50% thermoplastic and 50% - 60% wood fiber.

See Section 8 for exposure limits (if applicable).

### 3. HAZARDS IDENTIFICATION

**U.S. OSHA HAZARD COMMUNICATION STANDARD:** This product may be used in applications that produce wood dust fibers. According to OSHA 29 CFR 1910.1200, certain wood fibers and carbon black are considered hazardous if the workplace airborne concentration exceeds the OSHA or ACGIH exposure limits (see section 8).

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**EFFECTS OF OVEREXPOSURE:** Dust can irritate nose, throat and respiratory tract and may cause mechanical irritation in the eyes. Repeated exposures to certain wood dusts can produce allergic skin and respiratory reactions including asthma and rhinitis. Inhalation of certain wood fibers can cause nasal cancer. Carbon black is a possible carcinogen.

**EMERGENCY RESPONSE DATA:** Brown solid. Exposure to fire can generate toxic fumes. High dust levels may create potential for explosion. DOT ERG No. - NA

### 4. FIRST AID MEASURES

**EYE CONTACT:** Flush thoroughly with water. If irritation occurs, call a physician.

**SKIN CONTACT:** Wash contact areas with soap and water. Launder contaminated clothing before reuse.

**INHALATION:** If respiratory irritation, cough, shortness of breath, wheezing or chest tightness occurs after exposure to dust, remove from further exposure, seek immediate medical assistance and call for a physician.

**INGESTION:** Not expected to be a problem when ingested. If uncomfortable, seek medical assistance.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media:** Water

**Special Fire Fighting Procedures:** Use water to keep fire exposed product cool. For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

**Special Protective Equipment:** For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

**Unusual Fire and Explosion Hazards:** Exposure to fire can generate toxic fumes. High dust levels may create potential for explosion. Flash Point C(F): > 370 (698) (Flame Spread Index = 80). Flammable limits - LEL: NA, UEL: N/A.

**NFPA Hazard ID:** Health: 0, Flammability: 1, Reactivity: 0.

**Hazardous Decomposition Products:** Smoke, Carbon Monoxide, Acetaldehyde, Formaldehyde, Formic Acid, Acetic Acid.

### 6. ACCIDENTAL RELEASE MEASURES

**Notification Procedures:** None

**Procedures if Material is Released or Spilled:** Where dusty conditions are created as a result of cutting or sawing, wet dust down then sweep or vacuum for disposal. Personnel performing cleanup must use protective equipment.

**Environmental Precautions:** Not expected to be a problem.  
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**Personal Precautions:** See Section 8

7. **HANDLING AND STORAGE**

**Handling:** TREX® WOOD-POLYMER LUMBER is not intended for load bearing or heavy structural applications. Please consult TREX® Wood-Polymer Lumber’s code listing, NER-508, and company literature for proper usage. TREX® Wood-Polymer Lumber is heavier than most traditional lumber products, proper handling is required to prevent damage or injury. Do not burn in fireplace or use as firewood.

**Storage:** Do not store in open or unlabelled containers. Store away from strong oxidizing agents or combustible material.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Ventilation:** Use in well ventilated area.

**Respiratory Protection:** Approved dust respirators must be used for dusty conditions or if breathing of dusts is likely.

**Eye Protection:** Safety glasses with side shields, or goggles, should be worn to protect against dust particles.

**Skin Protection:** No special equipment required. Good personal hygiene practices should always be followed.

Substance Name (CAS-No.)	Source	TWA		STEL	
		ppm	mg/m3	ppm	mg/m3
Wood Fiber Dust					
Certified Hardwood	OSHA		5		
Softwood	OSHA		5		
Western Red Cedar	OSHA		2.5		
Softwood	ACGIH		5		10
as Beech/Oak Cert. Hardwood	ACGIH		1		
Carbon Black (1333-86-4)	OSHA		3.5		
	ACGIH		3.5		

**Note:** Limits shown for guidance only. Follow application regulations.

9. **PHYSICAL AND CHEMICAL PROPERTIES**

Typical physical properties are given below. Consult Product Data Sheet for specific details.

**Appearance:** Solid  
**Color:** Gray, Red, Brown  
**Odor:** None  
**Odor Threshold - ppm:** NE  
**pH:** N/A

**Boiling Point C(F): N/A**  
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**Melting Point C(F): > 110 (230)**  
**Flash Point C(F): > 370 (698)**  
**Flammability: NE (Flame Spread Index = 80)**  
**Auto Flammability: 395 (743)**  
**Explosive Properties: N/A**  
**Oxidizing Properties: N/A**  
**Vapor Pressure-mmHg 20C: N/A**  
**Vapor Density: NE**  
**Evaporation Rate: NE**  
**Relative Density, 15/4 C: 0.96**  
**Solubility in Water: Negligible**  
**Partition Coefficient: NE**  
**Viscosity at 40C, cSt: N/A**  
**Viscosity at 100C, cSt: N/A**  
**Pour Point C (F): N/A**  
**Freezing Point C(F): NE**  
**Volatile Organic Compound: NE**

N/A = Not Applicable    NE = Not Established    D = Decomposes

For further technical information, contact your marketing representative.

**10. STABILITY AND REACTIVITY**

**Stability (Thermal, Light, Etc.): Stable.**  
**Conditions to Avoid: Heat and flame. Build up of dusts.**  
**Incompatibility (Materials to avoid): Strong oxidizers.**  
**Hazardous Decomposition Products: Smoke, Carbon Monoxide, Acetaldehyde, Formaldehyde, Formic Acid, Acetic Acid.**  
**Hazardous Polymerization: Will not occur.**

**11. TOXICOLOGICAL DATA**

**Acute Toxicology**

**Oral Toxicity (Rats): Not established.**  
**Dermal Toxicity (Rabbits): Not established.**  
**Inhalation Toxicity (Rats): Not established.**  
**Eye Irritation (Rabbits): Not established.**  
**Skin Irritation (Rabbits): Not established.**

**Chronic Toxicology (Summary)**

**IARC has determined that there is sufficient evidence to classify wood fiber as a human carcinogen. IARC has classified carbon black as a possible human carcinogen based on animal data. When wood fiber and carbon black are incorporated into a polymer matrix exposure is virtually eliminated.**

**12. ECOLOGICAL INFORMATION**

**Environmental Fate and Effects: Not established.**

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13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of waste as normal refuse.

**RCRA Information:** The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP)

14. TRANSPORT INFORMATION

USA DOT: Not regulated by USA DOT.

IMO: Not regulated by IMO.

IATA: Not regulated by IATA.

15. REGULATORY INFORMATION

Governmental Inventory Status: All components comply with TSCA.

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III: This product contains no "EXTREMELY HAZARDOUS SUBSTANCES."

SARA (311/312) REPORTABLE HAZARD CATEGORIES: CHRONIC

This product contains no chemicals reportable under SARA (313) toxic release program.

The following product ingredients are cited on the lists below:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>List Citations</u>
Wood Fiber Dust		1, 2, 6
Carbon Black	1333-86-4	8

----REGULATORY LISTS SEARCHED----

1 - ACGIH ALL    6 - IARC 1    11 - TSCA 4    17 - CA P65    22 - MI 293  
2 - ACGIH AL    7 - IARC 2A12 - TSCA 5A2    18 - CA RTK    23 - MN RTK  
3 - ACGIH A2    8 - IARC 2B    13 - TSCA 5E    19 - FL RTK    24 - NJ RTK  
4 - NTP CARC    9 - OSHA CARC    14 - TSCA 6    20 - IL RTK    25 - PA RTK  
5 - NTP SUS    10 - OSHA Z    15 - TSCA 12B    21 - LA RTK    26 - RI RTK

CODE KEY:    CARC = CARCINOGEN    SUS = SUSPECTED CARCINOGEN

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USE: COMPOSITE LUMBER PRODUCTS

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INGREDIENT	PCT	CAS NUMBER
Wood Fiber	50-60	
Polyethylene	40-50	9002-88-4
Carbon Black	< 1	1333-86-4

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For Internal Use Only: MHC: NE NE NE NE NE, MPPEC: A, REQ: TREX® WOOD-POLYMER LUMBER, SAFE USE: G  
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