



SDSSEL-01  
8-8-23

**SECTION 1 - IDENTIFICATION:**

PRODUCT NAME: **TREX SELECT® RAILING**

SUPPLIER: TREX COMPANY, INC  
2500 TREX WAY  
WINCHESTER, VA 22601

PRODUCT AND MSDS INFORMATION: 800-289-8739  
EMERGENCY CONTACT: 800-289-8739

REVISION: 8-8-23

**SECTION 2 - HAZARD IDENTIFICATION:**

ROUTE(S) OF ENTRY: Inhalation (yes), Skin (no), Ingestion (no)

ACUTE HEALTH EFFECTS: Exposure to the product at ambient conditions is not expected to cause any adverse health effects. At high temperatures of processing, fumes, gasses and vapors (thermal decomposition products) may be evolved which can cause eye and upper respiratory irritation

CHRONIC HEALTH EFFECTS: Effects of chronic exposure to fumes, gases and vapors have not been determined

CARCINOGENICITY: OSHA (no) IARC (no) NTP (no)

NFPA HAZARD RATING: Health = 2 Flammability = 1 Reactivity = 0  
(0 = insignificant hazard, 1 = slight, 2 = moderate, 3 = high, 4 = extreme)

**SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS:**

CHEMICAL NAMES AND SYNONYMS: WOOD FIBER

<b><u>Component (CAS#)</u></b>	<b><u>Percent Composition</u></b>	<b><u>OSHA PEL (TWA)</u></b>	<b><u>ACGIH TLV (TWA)</u></b>
Andersen Vinyl blend	(60%-32%)	5 mg/m <sup>3</sup> * 15 mg/m <sup>3</sup> **	10 mg/m <sup>3</sup>

Polyvinyl Chloride resin	(>50%)	5 mg/m <sup>3</sup> * 15 mg/m <sup>3</sup> **	10 mg/m <sup>3</sup>
Titanium dioxide (13463-67-7)	(<2%)	5 mg/m <sup>3</sup> * 15 mg/m <sup>3</sup> **	10 mg/m <sup>3</sup>
Acrylic polymer blend (25852-37-3/9010-88-2)	(<1%)	5 mg/m <sup>3</sup> * 15 mg/m <sup>3</sup> **	10 mg/m <sup>3</sup>
N,N'-ethylene bis(stearamide) (110-30-5)	(<3%)	5 mg/m <sup>3</sup> * 15 mg/m <sup>3</sup> **	10 mg/m <sup>3</sup>
Organotin compounds (57583-35-4/57583-34-3)	(<1%)	0.1 mg/m <sup>3</sup> (skin)	0.1 mg/m <sup>3</sup> (skin)
Calcium stearate (1592-23-0)	(<2%)	None Exists	10 mg/m <sup>3</sup>
Wood (as dust)	(38%-40%)	5mg/m <sup>3</sup> 10mg/m <sup>3</sup>	5mg/m <sup>3</sup> 10mg/m <sup>3</sup>
Ponderosa pine Laminate veneer lumber Douglas fir hemlock	(95%) (4%) (<1%) (<1%)	(STEL)	(STEL)

\* applies to repairable dust

\*\* applies to total dust

**PEL** is the Occupational Safety and Health Administration (OSHA) permissible exposure limit and represents exposure concentrations that should not be exceeded.

**TLV** is the American Conference of Industrial Hygienists (ACGIH) threshold limit value and refers to airborne concentrations of substances and represents conditions under which it is believed that nearly all workers may be repeatedly exposed day after day without adverse health effects.

#### **SECTION 4 – FIRST AID MEASURES:**

**INHALATION:** Remove victim to a clean air area. Monitor breathing. Provide breathing assistance as necessary. Contact emergency medical services if breathing is difficult.

**SKIN:** Practice good personal hygiene. If skin is contacted by hot material, treat as a burn.

**INGESTION:** Not an anticipated hazard.

#### **SECTION 5 – FIRE-FIGHTING MEASURES:**

**FLASH POINT:** Not established for this product, but expected to be greater than 400 F based on product component information

**FLAMMABLE LIMITS:** LEL = NA UEL = NA

**Extinguishing media:** Water (most effective), ABC dry chemical and AFFF and protein type air foams

**SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS:** Use pressure-demand Self-Contained Breathing Apparatus (SCBA)

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** The material may burn like any normal combustible material, but is difficult to ignite. Combustion will yield carbon monoxide and hydrogen chloride as the primary toxic products. Carbon monoxide (PEL-TWA = 35 ppm, PEL-C = 200 ppm) interferes with transport of oxygen from the lungs causing oxygen deficiency in the body with symptoms of the central nervous system impairment. Hydrogen chloride (PEL-C = 5 ppm) is an eye and upper respiratory irritant.

#### **SECTION 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.

**PERSONAL PRECAUTIONS:** See Section 8

#### **SECTION 7 - HANDLING AND STORAGE:**

Avoid breathing thermal decomposition products generated during processing. Practice good personal hygiene when working with the product. Wash thoroughly before eating, smoking or using toilet facilities. Do not store, consume, or prepare food in the processing areas.

**RESPIRATORY PROTECTION:** NIOSH/MSHA approved respirators may be worn in accordance with a written respiratory protection program (per 29 CFR 1910.134 Respiratory Protection) to prevent exposure to thermal decomposition products or dust at concentrations above OSHA PEL.

#### **SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION:**

**VENTILATION:** Provide local exhaust ventilation and general room ventilation to maintain exposure concentrations of thermal decomposition products below the respective OSHA PEL's. Ventilation may be required for the following processes: Hot melting, cutting or sawing, machining, regrinding, thermoforming, and other post-processing operations involving heat sufficient enough to cause thermal degradation.

**PROTECTIVE GLOVES:** Wearing gloves when handling material is not necessary, but recommended.

**EYE PROTECTION:** Wear safety glasses when cutting or machining material.

**OTHER PROTECTIVE CLOTHING/EQUIPMENT:** A work coverall can be worn to protect the skin during the work shift. If exposure is substantial, the coverall should be changed at the end of the work shift.

**WORK/HYGIENIC PRACTICES:** Avoid overheating or burning the material to minimize generation of thermal decomposition products. Maintain a clean work floor to minimize slipping hazards presented by cut materials.

## **SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES:**

Typical physical properties are given below.

Appearance:	Hollow Profiles
Color:	White
Odor:	None
Odor Threshold - ppm:	NE
pH:	N/A
Boiling Point C(F):	N/A
Melting Point C(F):	NE
Flash Point C(F):	NE
Flammability:	NE (Flame Spread Index = 15)
Auto Flammability:	NE
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:	NE
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):	N/A
Volatile Organic Compound:	NE

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

## **SECTION 10 – STABILITY AND REACTIVITY:**

Reactivity:	Under fire conditions, may evolve Hydrogen Chloride (HCl), Carbon Oxides (CO, CO <sub>2</sub> ), and Nitrogen Oxides (NO <sub>x</sub> ).
Stability (Thermal, Light, Etc.):	Stable under anticipated conditions of use
Possibility of Hazardous Reactions:	Heating above 250 °C may result in product decomposition and release of hazardous fumes.
Conditions to Avoid:	Heat. Open flame. Sparks.
Incompatible Materials:	Avoid contact with: Strong acids.
Hazardous Decomposition Products:	Thermal decomposition generates Hydrogen Chloride. Carbon oxides (CO, CO <sub>2</sub> ). Benzene and aromatic and aliphatic hydrocarbons. Nitrogen oxides. Sulfur oxides. Organic hydrocarbons.

## **SECTION 11 – TOXICOLOGICAL INFORMATION:**

### **ACUTE TOXICOLOGY:**

Acute toxicity:	Not classified
Skin corrosion/irritation:	Not classified
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified

Carcinogenicity:	Not classified.
Reproductive toxicity:	Not classified
Aspiration hazard:	Not classified
Symptoms/injuries after inhalation:	May cause respiratory irritation.
Symptoms/injuries after skin contact:	May cause skin irritation or allergic reaction. Contact with molten material may cause thermal burns.
Symptoms/injuries after eye contact:	Direct contact with the eyes is likely to be irritating.
Symptoms/injuries after ingestion:	May cause gastrointestinal irritation.
Chronic symptoms:	No data available.
Specific target organ toxicity (repeated exposure):	Not classified
Specific target organ toxicity (single exposure):	Not classified

**CHRONIC TOXICOLOGY (SUMMARY):**

IARC has determined that there is sufficient evidence to classify wood fiber as a human carcinogen. When wood fibers are incorporated into a polymer matrix exposure is virtually eliminated.

**SECTION 12 – ECOLOGICAL INFORMATION:**

ENVIRONMENTAL FATE AND EFFECTS: Not established.

**SECTION 13 – DISPOSAL CONSIDERATIONS:**

WASTE DISPOSAL: Dispose of waste as normal refuse.

**SECTION 14 – TRANSPORT INFORMATION:**

HC CODE: 3925.90.0000

UN PROPER SHIPPING NAME: Trex Select Railing

**SECTION 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

**SECTION 16 – OTHER INFORMATION:**

Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user and we expressly disclaim all warranties of every kind and nature, including warranties of merchantability and fitness for a particular purpose in respect to the use or suitability of the product. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, republication or retransmission of this document, in whole or in part, is not permitted. Trex® assumes no responsibility for accuracy of information unless the document is the most current available from an official Trex® distribution system. Trex® neither represents nor warrants that the format, content or product formulas contained in this document comply with the laws of any other country except the United States of America.

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