

# MATERIAL SAFETY DATA SHEET

ENDURO SYSTEMS, INC.  
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## SECTION 1 - PRODUCT DESCRIPTION:

Trade Names and Synonyms: Fiberglass Reinforced Plastics (FRP Products)  
Chemical Name and Family: Plastics  
Formula: Co-polymer / inorganic fillers and color additives  
DOT Hazard Class/ID#/Label: Not applicable to finished product  
Reportable Quantity (RO): Not applicable to finished product  
Surface Freight Classification: 60  
NPCA-HMIS Hazard Index: 1/1/0 (health/flammability/reactivity)  
Personal Protection Codes: B,E

## SECTION II - COMPOSITION

<u>Chemical Components-Wt.Pct.</u>	<u>CAS No.</u>
Polymerized Thermo Setting Resins (styrene cross-linked), 30-70%	None
Fiberglass Reinforcement, 30-70%	65997-17-3
Inorganic Fillers, 10-20%	None

## SECTION III - PHYSICAL & CHEMICAL PROPERTIES

Boiling Point - NA	Evaporation Rate - NA
Vapor Pressure - NA	Insoluble in Water
Vapor Density - NA	No melting point
Specific Gravity = 1.5-2.0	Neutral pH
Appearance/odor: Hard polymer, no odor, various colors in flat and corrugated sheets	

## SECTION IV – FIRE AND EXPLOSION DATA

Flash point: Not applicable	Flammable Limits: Not applicable
Extinguishing Media:	Use methods applicable to surrounding combustibles
Special Fire Fighting Procedures:	Remove external flame source. Use SCBA
Unusual Fire & Explosion Hazards:	Dust from grinding, sanding or cutting may be explosive If a ignition source is present.

## SECTION V – REACTIVITY DATA:

Stability:	Material is not reactive; highly stable
Hazardous Polymerization:	Will not occur
Incompatibility:	Avoid contact with hydrofluoric acid
Hazardous Byproducts from thermal decomposition: Carbon monoxide, hydrogen bromide, styrene (with heat that causes the decomposition, these by –products will undergo oxidative decomposition in presence of air)	

## SECTION VI – POTENTIAL HEALTH EFFECTS (DUST ONLY)

- Inhalation:** Dust from cutting may be an irritant, or may cause soreness in throat and nasal passageways. OSHA TLV (nuisance dust): 10 mg/cu. Meter.
- Skin & Eye:** Skin contact may cause short-term irritation or rash. See a physician in case of persistent contact dermatitis.
- Ingestion:** Relatively non-toxic. Employ standard personal hygiene practices to avoid ingestion of dust.
- Emergency & First Aid Procedures:** Exposure to dust may cause throat irritation and coughing. Get to fresh air.
- Eye Contact:** Mild irritant. In case of contact, flush eye with copious quantities of water for at least 15 minutes.

## SECTION VII – LEAK & SPILL RESPONSE (DUST ONLY)

If bagged dust spilled, re-bag as soon as possible to keep dust from being spread. Face mask or respirator should be used if cleaning up dust.

## SECTION VIII – PERSONAL PROTECTION/DUST CONTROL MEASURES

**Precautionary Measures:** Avoid contact with eyes, skin and clothing. Wear gloves, eye protection and long Sleeve work shirts. Arrange work so that you are upstream of air flow.

**Respiratory** – When ventilation is unavailable to maintain exposures below the TLV (see Section VI), the use an approved (NIOSH/OSHA) dust respirator may be necessary for worker protection.

<b>Ventilation:</b>	Outdoors:	up-wind
	Work zone exhaust:	As needed
	Building Exhaust:	As needed
	Closed room, air filtered:	Not recommended

### Personal Protective Equipment:

Protective gloves – Mandatory, use heavy cloth or leather work gloves

Other protective clothing – Dust aprons, long sleeve, throwaway coverall if dust is heavy

Eye Protection – Wear at all times (goggles recommended). Avoid contact lenses.

Respiratory – Wear N-95 nuisance dust respirator when cutting ,drilling , etc..

## SECTION IX – STORAGE AND HANDLING

**Handling:** Keep bare hands away from raw cut edges; glass fibers can stick into skin.

Spill countermeasures: not applicable. **Waste disposal:** Dust and cutting waste is not RCRA hazardous. No Special precautions for warehouse movement & storage except for usual physical considerations for racking or stacking. Keep dust in sturdy bags and dispose of within all State and local guidelines.

## 16 CFR 1500.44 Flammable Solids Test

Test used to determine the flammability or non-flammability of the finished product.

Date: 2/9/2011 Sample Id: Endoro – Fiberglass reinforced plastic sheeting

Room temperature during test: 68 degrees F

Rigid plastic: yes Cut 1”by 5” piece for testing

Time to ignition: N/A The sample was exposed to a 1” flame for a period of two minutes at the small edge.

The sample failed to ignite, only charring and slight smoke was observed after the product reached high temp..

Burn Time: N/A

Burn Distance: N/A

Burn rate: N/A

This product does not exhibit any flammable properties associated with this test. The product did not ignite. And is considered non flammable.

Thermal decomposition products and precautions should be followed as per section V.

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