



## Material Safety Data Sheet

### E-761 EPOXY FIBERGLASS PREPREG

#### Section 1 : Company and Product Identification

172 East Aurora Street  
Waterbury, Ct 06708

Emergency Phone 203-755-1344

**Product Name:** E- 761 Fiberglass Prepreg

**Product Description:** Epoxy impregnated fiberglass fabric

#### Section 2 : Hazardous Ingredients

Chemical Name	CAS #	Wt. %	OSHA PEL	ACGIH TLV	SARA 313 YES / NO
Catalyzed Epoxy Mixture	Proprietary	30-55	NE	NE	No
Fiberglass Fabric	7440-44-0	45-70	15 mg/M <sup>3</sup>	15 mg/M <sup>3</sup>	No
Tetrabromobisphenol A	79-94-7	3.2	15 mg/M <sup>3</sup>	10 mg/M <sup>3</sup>	Yes
Acetone	67-64-1	<1.0	1000 ppm	500 ppm	Yes
Methyl Ethyl Ketone	78-93-3	<1.0	200 ppm	200 ppm	Yes
Dimethyl Formamide	68-12-2	<1.0	10 ppm	10 ppm	Yes
Antimony Trioxide	1309-64-4	<1.0	0.5mg/m <sup>3</sup>	None	Yes

NE= Not Established

#### Section 3 : Hazards Identification (Effects of Exposure)

Normal storage and handling of rolled prepreg is not expected to present any health hazards to those handling it. However processing of this product can release dusts and vapors which then become airborne

The following section describes the possible consequences of exposure to the dusts and solvents associated with the processing of this material.

#### SIGNS AND SYMPTOMS OF EXPOSURE

##### Resin Dust and Fiberglass:

- |  |  |                                      |   |
|--|--|--------------------------------------|---|
| <input type="checkbox"/> Dizziness         | <input type="checkbox"/> Coma                | <input type="checkbox"/> Vomiting    | <input type="checkbox"/> Rapid Breathing  |
| <input type="checkbox"/> Nausea            | <input checked="" type="checkbox"/> Coughing | <input type="checkbox"/> Chills      | <input type="checkbox"/> Rapid Heart Rate |
| <input type="checkbox"/> Vision Impairment | <input type="checkbox"/> Headaches           | <input type="checkbox"/> Fever       | <input type="checkbox"/> Muscle Spasms    |
| <input checked="" type="checkbox"/> Rash   | <input checked="" type="checkbox"/> Itching  | <input type="checkbox"/> Other _____ |   |

##### Solvents:

- |   |   |                                      |   |
|---|---|--------------------------------------|---|
| <input checked="" type="checkbox"/> Dizziness | <input type="checkbox"/> Coma                 | <input type="checkbox"/> Vomiting    | <input type="checkbox"/> Rapid Breathing  |
| <input checked="" type="checkbox"/> Nausea    | <input checked="" type="checkbox"/> Coughing  | <input type="checkbox"/> Chills      | <input type="checkbox"/> Rapid Heart Rate |
| <input type="checkbox"/> Vision Impairment    | <input checked="" type="checkbox"/> Headaches | <input type="checkbox"/> Fever       | <input type="checkbox"/> Muscle Spasms    |
| <input type="checkbox"/> Rash                 | <input type="checkbox"/> Itching              | <input type="checkbox"/> Other _____ |   |

#### MEDICAL CONDITIONS AGGRAVATED BY THIS MATERIAL

Although these airborne dusts and solvents do not effect most individuals, certain individuals with skin sensitization, contact dermatitis, or asthma may experience reactions if exposed.

NOTE TO PHYSICIANS: None

### Section 4: First Aid Measures

	Eyes	Skin	Inhalation	Ingestion
Flush with running water for 15 minutes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Remove to fresh air	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Administer oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Seek immediate medical attention	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Seek medical attention if symptoms persist	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Induce vomiting				<input type="checkbox"/>
Administer carbon slurry or sodium bicarbonate				<input type="checkbox"/>

Other First Aid Measures: If skin rash occurs, follow the 15 minute rinse with a mild soap and water wash to mechanically remove any fiberglass fibers. Dispose of any contaminated clothing.

NOTES TO PHYSICIAN: None

### Section 5: Fire Fighting Measures

Flash Point NA °F  
Lower Explosion Limit % NA %  
Upper Explosion Limit % NA %

Extinguishing Media: ☐ NA  
☒ Foam ☒ Water ☒ CO<sub>2</sub>  
☒ Halon ☒ Dry Chemical

NFPA 704 Ratings: Health 2 Flammability 1 Reactivity 0

#### Hazardous Products of Decomposition:

☒ Nitrous Oxides ☒ Carbon Monoxide ☐ Vinyl Chloride ☐ Sulfurous Oxides  
☒ Aldehydes ☐ Hydrogen Cyanide ☒ Various Acids

Other

#### Special Fire Fighting Procedures:

Fire fighting should only be performed by professionals trained and equipped to handle hazardous materials incidents.

#### Other Fire/Explosion Hazard Data:

Sudden releases of hot organic vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment containing these vapors, may result in ignitions without the presence of an obvious ignition source. Therefore, published "autoignition" or "ignition" temperature values cannot always be used as safe operating temperatures in chemical processes without proper analysis of the actual process conditions. As with all products, it is the responsibility of the user to thoroughly evaluate their process and to establish and maintain safe process parameters.

### Section 6: Accidental Release Measures

#### Spill and Leak Procedures:

Spills or leaks are not expected to occur.

#### Personal Precautions:

Use rubber gloves when handling prepreg materials.

#### Precautions to Protect The Environment:

Not Applicable.

**Methods For Collection:**

Not Applicable.

## Section 7: Handling and Storage

**Storage and Handling:**

Rolls of prepreg can be very heavy. Safe handling requires the use of automated material handling equipment. Protective gloves should be worn when handling sheets of prepreg materials.

**Waste Disposal:**

Always follow all local, state and federal regulations when disposing of waste materials.

## Section 8: Exposure Controls / Personal Protection

Although the following control measures will control atmospheric contamination in most manufacturing processes, it is your responsibility as the user of this product to determine the atmospheric concentrations of the various contaminants at your worksite and take whatever additional precautions may be necessary to keep the concentrations below the established exposure limits.

**Ventilation:**

- ☒ Area, general - This is important during the sheeting and lamination processes.
- ☒ Local - Use engineering controls such as enclosures, exhaust ventilation, and dust collection systems wherever possible to keep airborne concentrations of vapors, dust fibers below established exposure limits.

**Personal Protective Equipment Required:**

- ☒ Gloves and or sleeves

Prepreg materials contain small amounts of solvents which can cause skin sensitization. Gloves and/or sleeves may be required by workers with sensitive skin or contact dermatitis. It is recommended that any skin area that may come in regular contact with this material be protected with gloves, sleeves or other appropriate barrier material at all times.
- ☒ Apron

Although usually not required, it should be noted that fibers or dust from the material may irritate the skin due to mechanical action of fibers. Individuals sensitive to these fibers should wear an apron.
- ☒ Respiratory Protection

Respiratory protection may be required to prevent overexposure to both the dusts and the solvent vapors. Refer to the chemical ingredients section and follow appropriate industrial hygiene practices to determine if the levels of contaminants are high enough to require respiratory protection.
- ☒ Eye Protection

Although not a corrosive material, fibers and trace amounts of severe eye irritants are present in this prepreg material. Depending on the level of dust and vapors generated while processing the material, safety glasses or goggles should be worn at all times.

## Section 9: Physical and Chemical Properties

**Color** neutral  
**Melting Point** 130-250 °F  
**Flash Point** NA °F

**Odor** Ketone  
**Percent Volatile** (prepreg) < 2.0 %

Boiling Point NA °FSpecific Gravity 1.85Vapor Density NAVapor Pressure NA mmHgOther Physical or Chemical Properties: None**Section 10: Stability and Reactivity**Reactivity: ☒ Stable ☐ ReactivePhysical Hazards: ☐ Pyrophoric ☐ Explosive ☐ Compressed Gas  
☐ Oxidizer ☐ Water Reactive ☐ Other: \_\_\_\_\_

## Avoid contact with:

☐ Strong Acids ☐ Strong Bases ☐ Oxidizers ☐ Flammable Liquids  
☐ Water ☐ Most Metals ☐ Oils and Greases  
☐ Other Excessive Temperatures \_\_\_\_\_

## Hazardous Polymerization:

☒ Will Occur ☐ Will not occur

Hazardous polymerization of B-staged prepreg will not occur under normal storage and handling conditions.. However, like all resinous materials, if processed under extreme conditions, (extreme heat rise or cure temperature) resin materials such as this product are capable of undergoing hazardous polymerization which results in exothermic decomposition. The products of this decomposition are listed in the fire and explosion data section.

As with all products, it is the responsibility of the user to thoroughly evaluate their process and to establish and maintain safe process parameters. Refer to the following section as an initial guide.

## Process Conditions to Avoid:

- 1.) Extreme heat rise conditions.

## Section 11: Toxicological Information

### PRIMARY ROUTES OF ENTRY

	Contribution to Overall Exposure		
	Significant	Minor	Not Likely
Inhalation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Skin Absorption	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Eye Contact	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ingestion	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other:			

### EFFECTS ON TARGET ORGANS

	<u>ACUTE</u>		<u>CHRONIC</u>
	Irritant	Corrosive	Toxin
Eyes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Skin	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Upper Respiratory Tract	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lower Respiratory Tract	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Central Nervous System			
Liver			<input type="checkbox"/>
Kidney			<input type="checkbox"/>
Heart			<input type="checkbox"/>
Gastrointestinal			<input type="checkbox"/>
Other Organ(s)			

## CARCINOGENICITY AND REPRODUCTIVITY STUDIES

	<u>Human</u>		<u>Animal</u>		
	Known	Suspect	Known	Suspect	Not Listed
Carcinogen (OSHA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Carcinogen (NTP)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Carcinogen (IARC)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mutagen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Teratogen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Reproductive Toxin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

As the chart above indicates, this product is not listed by any of the cancer research agencies as a cancer causing agent. This product may contain trace amounts of solvents used in the manufacturing of the base resins. These solvents have various known health effects including cancer. General information about these solvents is listed below. Additional information can be obtained from conventional chemical data resources. Exposure to these solvents at or above any published threshold limits is not expected.

**Fibrous Glass:** This product contains fibrous glass. Although early studies showed possible links between fibrous glass and cancer, current research indicates no links with human cancer. Glass wool, which differs from fibrous glass in its morphology, continues to be evaluated as a possible human carcinogen by IRAC.

## Section 12: Ecological Information

This product does not contain any ingredients expected to exhibit any ecologic effects.

## Section 13: Disposal Considerations

This product is not considered a RCRA hazardous waste. Dispose in accordance with local regulations.

**Section 14: Transport Information****DOT Road Shipment Information:**

This product is considered non-hazardous by the U.S. Department of Transportation (49 CFR 172.101).

**Ocean Shipment:**

This product is considered non-hazardous by the IMDG.

**Air Shipment Information:**

This product is considered non-hazardous by IATA.

**Section 15: Regulatory Information****UNITED STATES****SARA 313 Information**

Any ingredient marked "Yes" in the SARA 313 column of the Hazardous Ingredients section of this MSDS is a toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

**Toxic Substances Control Act (TSCA)**

All ingredients in this product are included on, or exempted from, listing on this list.

**CANADA****WHMIS (Workers Hazardous Material Information System):**

This product is not considered hazardous.

**DSL**

This product is considered an article and is exempt from the reporting requirements for the Domestic Substance List in accordance with subsection 3 of CEPA.

**CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA)**

All reportable chemical substances are listed on the DSL or otherwise comply with CEPA new substances notification requirements.

**NATIONAL POLLUTANT RELEASE INVENTORY (NPRI)**

This product contains the following chemicals subject to the reporting requirements of the Canadian Environmental Protection Act (CEPA), subsection 16 (1), NPRI.

Acetone	67-64-1	< 1.0%
Methyl Ethyl Ketone	78-93-3	< 1.0%

**DOMESTIC SUBSTANCE LIST (INVENTORY):**

All components of this product are listed on the Canadian DSL.

**Section 16: Other Information**

The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to the Occupational Safety and Health Administration's Hazard Communication Standard as promulgated under 29 CFR 1910.1200 and the United States Environmental Protection Agency's Supplier Notification Rule as promulgated under 40 CFR 372.45.

This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in the proper procedures of safe chemical handling. Nelco provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy.

No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product(s) or information contained in this Material Safety Data Sheet.

Chemical additions, processing or otherwise altering this material may make the safety information presented above incomplete, inaccurate or otherwise inappropriate.

The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user.

Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its use and disposal of this product comply with federal, state or provincial, and local laws. The buyer or user assumes all risks associated with the use, misuse or disposal of this product.

As new documented safety information becomes available, Nelcote will revise this Material Safety Data Sheet and forward an updated copy to all current customers.

The information listed above does not include all state, federal, and international regulations. The regulatory information supplied may change from time to time. It is the user's responsibility to keep advised of all applicable regulatory requirements.

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**Prepared by** .....John Zoldy