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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>Wt. %</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>SARA 313 YES / NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catalyzed Epoxy Mixture</td>
<td>Proprietary</td>
<td>30-55</td>
<td>NE</td>
<td>NE</td>
<td>No</td>
</tr>
<tr>
<td>Fiberglass Fabric</td>
<td>7440-44-0</td>
<td>45-70</td>
<td>15 mg/M³</td>
<td>15 mg/M³</td>
<td>No</td>
</tr>
<tr>
<td>Tetrabromobisphenol A</td>
<td>79-94-7</td>
<td>3.2</td>
<td>15 mg/M³</td>
<td>10 mg/M³</td>
<td>Yes</td>
</tr>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>&lt;1.0</td>
<td>1000 ppm</td>
<td>500 ppm</td>
<td>Yes</td>
</tr>
<tr>
<td>Methyl Ethyl Ketone</td>
<td>78-93-3</td>
<td>&lt;1.0</td>
<td>200 ppm</td>
<td>200 ppm</td>
<td>Yes</td>
</tr>
<tr>
<td>Dimethyl Formamide</td>
<td>68-12-2</td>
<td>&lt;1.0</td>
<td>10 ppm</td>
<td>10 ppm</td>
<td>Yes</td>
</tr>
<tr>
<td>Antimony Trioxide</td>
<td>1309-64-4</td>
<td>&lt;1.0</td>
<td>0.5mg/m³</td>
<td>None</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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:
- ☐ Dizziness
- ☐ Nausea
- ☒ Vision Impairment
- ☒ Rash
- ☐ Coma
- ☒ Coughing
- ☐ Headaches
- ☒ Itching
- ☐ Vomiting
- ☐ Chills
- ☐ Fever
- ☐ Other
- ☐ Rapid Breathing
- ☐ Rapid Heart Rate
- ☐ Muscle Spasms

Solvents:
- ☒ Dizziness
- ☒ Nausea
- ☐ Vision Impairment
- ☒ Rash
- ☒ Coma
- ☒ Coughing
- ☐ Headaches
- ☒ Itching
- ☐ Vomiting
- ☐ Chills
- ☐ Fever
- ☐ Other
- ☐ Rapid Breathing
- ☐ Rapid Heart Rate
- ☐ Muscle Spasms

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

<table>
<thead>
<tr>
<th>Eyes</th>
<th>Skin</th>
<th>Inhalation</th>
<th>Ingestion</th>
</tr>
</thead>
<tbody>
<tr>
<td>☒</td>
<td>☒</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Flush with running water for 15 minutes

Remove to fresh air

Administer oxygen

Seek immediate medical attention

Seek medical attention if symptoms persist

Induce vomiting

Administer carbon slurry or sodium bicarbonate

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

<table>
<thead>
<tr>
<th>Flash Point</th>
<th>Extinguishing Media:</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA °F</td>
<td>☐ NA</td>
</tr>
</tbody>
</table>

| Lower Explosion Limit % | NA % | ☒ Foam | ☒ Water | ☒ CO₂ |
| Upper Explosion Limit % | NA % | ☒ Halon | ☐ Dry Chemical |

NFPA 704 Ratings: Health Flammability Reactivity 2 1 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:
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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>neutral</td>
</tr>
<tr>
<td>Melting Point</td>
<td>130-250 °F</td>
</tr>
<tr>
<td>Flash Point</td>
<td>NA °F</td>
</tr>
<tr>
<td>Odor</td>
<td>Ketone</td>
</tr>
<tr>
<td>Percent Volatile</td>
<td>prepreg</td>
</tr>
</tbody>
</table>
Boiling Point

Vapor Density

Specific Gravity 1.85

Vapor Pressure NA mmHg

Other Physical or Chemical Properties: None

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**Section 10: Stability and Reactivity**

**Reactivity:**
- ✔️ Stable
- ☐ Reactive

**Physical 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**

<table>
<thead>
<tr>
<th>Contribution to Overall Exposure</th>
<th>Inhalation</th>
<th>Skin Absorption</th>
<th>Eye Contact</th>
<th>Ingestion</th>
<th>Other:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Significant</td>
<td>×</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td></td>
</tr>
<tr>
<td>Minor</td>
<td>□</td>
<td>×</td>
<td>□</td>
<td>□</td>
<td></td>
</tr>
<tr>
<td>Not Likely</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td></td>
</tr>
</tbody>
</table>

**Effects on Target Organs**

<table>
<thead>
<tr>
<th></th>
<th>ACUTE</th>
<th>CHRONIC</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Irritant</td>
<td>Corrosive</td>
<td>Toxin</td>
<td></td>
</tr>
<tr>
<td>Eyes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Respiratory Tract</td>
<td>□</td>
<td>□</td>
<td></td>
</tr>
<tr>
<td>Lower Respiratory Tract</td>
<td>□</td>
<td>□</td>
<td></td>
</tr>
<tr>
<td>Central Nervous System</td>
<td>□</td>
<td>□</td>
<td></td>
</tr>
</tbody>
</table>

**Carcinogenicity and Reproductivity Studies**

<table>
<thead>
<tr>
<th></th>
<th><strong>Human</strong></th>
<th><strong>Animal</strong></th>
<th><strong>Not Listed</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Carcinogen (OSHA)</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Carcinogen (NTP)</td>
<td>□</td>
<td>□</td>
<td></td>
</tr>
<tr>
<td>Carcinogen (IARC)</td>
<td>□</td>
<td>□</td>
<td></td>
</tr>
<tr>
<td>Mutagen</td>
<td>□</td>
<td>□</td>
<td></td>
</tr>
<tr>
<td>Teratogen</td>
<td>□</td>
<td>□</td>
<td></td>
</tr>
<tr>
<td>Reproductive Toxin</td>
<td>□</td>
<td>□</td>
<td></td>
</tr>
</tbody>
</table>

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.

Last Updated ..................................... June 5, 2006  Prepared by ......................................John Zoldy