

## MATERIAL SAFETY DATA SHEET

### 1. Product and Company Information

Newport Adhesives and Composites, Inc.  
1822 Reynolds Ave.  
Irvine, CA 92614-5714  
Emergency Phone: 949-253-5680

PRODUCT: NB/NCT 321, 321-2 Prepreg  
MSDS #: 02-MSDS-02  
Contact Phone: 949-253-5680  
Revision Date: 10/28/08

### 2. Composition/Information on Ingredients

#### Chemical Ingredients (% by wt.)

Component	Synonym	CAS #	%
Epoxy Resin Mixture	Proprietary	Proprietary	<70%
Non reactive thermoplastic	Proprietary	Proprietary	<10%
Amide Hardener	Proprietary	Proprietary	<10%
Catalyst	Proprietary	Proprietary	<1%
Graphite Fiber Reinforcement	Carbon Fiber	7440-44-0	<75%
Or Glass Fiber Reinforcement	Fiberglass	65997-17-3	<75%
Or Aramid Fiber Reinforcement	Aramid Fiber	26125-61-1	<75%
Impurity	Epichlorohydrin	106-89-8	<0.00001%
Impurity	Methylene dianiline (MDA)	101-77-9	<0.00001%

#### OSHA Regulatory Status

This material is not classified hazardous under OSHA regulations. This MSDS contains valuable information critical to the safe handling and proper use of this product. This MSDS should be retained and available for employees and other users of the product.

### 3. Hazards Identification

**Emergency Overview:** Opaque tacky film reinforced with fiberglass, aramid fiber, or graphite fiber. Mild odor. Can burn in a fire emitting toxic fumes.

**Potential Health Effects:** Direct contact may cause irritation the eye, skin, and mouth.

**Chronic Effects/Carcinogenity:** None known.

**Potential Environmental Effects:** None Known.

### 4. First Aid Measures

**Eyes:** Flush with water for least 15 minutes. Seek medical attention if irritation persists.

**Skin:** Wash off with soap and water. Seek medical attention if irritation persists.

**Ingestion:** Seek medical attention.

**Inhalation:** No adverse effects are anticipated by breathing small amounts of vapor during processing. Seek medical attention if irritation occurs.

### 5. Fire Fighting Measures

**Flammable Properties:**

**Flashpoint:** >200°F

**Flammable Limits:**

**LFL:** Not Applicable

**UFL:** Not Applicable

**Extinguishing Media:** Water fog, foam, carbon dioxide, dry chemical

**Fire and Explosion Hazards:** Toxic vapors may be released in fire situations

**Fire fighting Equipment:** Wear full bunker gear including a positive pressure self-contained breathing apparatus.

### 6. Accidental Release Measures

Vacuum or sweep material and place in an appropriate disposal container. Avoid direct contact.

### 7. Handling and Storage

Avoid contact with eyes, skin, and mouth. Store at 0°F (-18°C) to prolong shelf life.

### 8. Exposure Control/Personal Protection

**Engineering Controls:** Provide general and/or local exhaust to maintain airborne levels below exposure limits.

**Respiratory Protection:** For most situations no respiratory protection is needed.

**Skin Protection:** Gloves and clothing that protects against direct contact with skin should be worn.

**Eye Protection:** Safety goggles should be worn.

**General Hygiene Consideration:**

There are no known health hazards associated with this material when used as recommended. The following general hygiene considerations are recognized as common, good industrial hygiene practices:

Wash hands after use and before eating

Avoid breathing dust

Wear safety glasses

**Exposure Guidelines**

**Resin** None Established

**Fiber** 10 mg/m<sup>3</sup>, (nuisance dust)

**Impurities** 0.0046 mg/Kg/day

### 9. Physical and Chemical Properties

**Appearance:** Opaque, tacky film on fiber reinforcement

**Odor:** Mild

**Boiling Point:** Not applicable

**Vapor Pressure:** Not applicable

**Solubility in Water:** Not applicable

**Specific Gravity:** <1.5

**pH:** Not applicable

**Flash Point:** >93°C(200°F)

**UEL:** Not Applicable

**LEL:** Not Applicable

### 10. Stability and Reactivity

**Stability:** Rapid polymerization may occur at temperatures above 93°C (200°F).

**Materials to Avoid:** Oxidizers, strong acids, strong bases

**Hazardous Decomposition Products:** Aldehydes, carbon monoxide, nitrogen oxides, nitric acid.

**Hazardous Polymerization:** May occur at temperatures above 93°C (200°F).

### 11. Toxicological Information

Not determined

### 12. Ecological Information

Not determined

### 13. Disposal Considerations

If material becomes waste, incinerate or landfill in accordance with local, state and federal regulations. Contact your local or state environmental agency for specific rules.

### 14. Transport Information

**DOT:** Not regulated

**IMO:** Not regulated

**IATA:** Not regulated

### 15. Regulatory Information

**Inventory Status:** The components of this product are either on the TSCA inventory or exempt from the inventory.

**CERCLA/Superfund, 40 CFR 117.32:** This material contains no Reportable Quantity (RQ) substances.

**SARA Hazard Category:** This material contains no substances subject to the reporting requirements of Section 311 title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372.

**SARA 313 INFORMATION:**

Chemical Name	CAS #	Concentration
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**California Proposition 65:**

**The following statement is made in compliance with California Safe Drinking and Toxic Enforcement Act of 1986:**

This product contains chemicals known to the State of California to cause cancer, or birth defects, or other reproductive harm. (Based upon epichlorohydrin and methylene dianiline impurities.)

### 16. Other Information:

**MSDS Status: Approved**

**MSDS Prepared By: Adam Erlandson**