

**MATERIAL SAFETY DATA SHEET**

Effective and Print Date: 6/1/07      MSDS #1552007A      Page #1

**SECTION I - PRODUCT AND COMPANY IDENTIFICATION**

Product Code: 155 Part A Resin  
Product Name: NSP 155 Binder Resin  
Product Class: Modified Epoxy Resin  
CAS Number: None Assigned

NSP Specialty Products, P. O. Box 4690, Pinehurst, NC 28374 - 24 hr. Emergency Phone (910)235-0468 or (800)248-8907

**SECTION II - INFORMATION ON INGREDIENTS**

<b><u>Ingredients</u></b>	<b><u>CAS#</u></b>	<b><u>Exposure Limits</u></b>
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Modified Epoxy Resin	Proprietary	None Assigned
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**SECTION III - HAZARDS IDENTIFICATION**

\*\*\*\*\***EMERGENCY OVERVIEW**\*\*\*\*\*

Viscous resinous material with mild characteristic odor. Eye and skin irritant. May cause sensitization and dermatitis. Avoid contact with eyes, skin and clothing. Slightly toxic or harmful if swallowed.

\*\*\*\*\*

**Potential Health Effects**

**EYE:** Causes mild to moderate eye irritation.

**SKIN:** May cause skin irritation. May cause sensitization and dermatitis.

**INGESTION:** Slightly toxic or harmful if swallowed.

**INHALATION:** May possibly cause pulmonary sensitization.

**CHRONIC (CANCER INFORMATION):** This component has not been classified by International Agency for Research on Cancer (IARC).

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Product Code: 155 Part A (Resin)

### **SECTION IV - FIRST AID MEASURES**

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids apart to ensure rinsing of entire eye surface and lids with water. Get medical attention.

**SKIN:** Remove contaminated clothing/shoes and wipe excess from skin. Flush skin with water. Follow by washing with soap and water until clean. If irritation occurs, get medical attention. Do not reuse clothing or contaminated articles if they cannot be cleaned.

**INGESTION:** Do not induce vomiting. If vomiting occurs, keep head below hips to prevent aspiration. Get immediate medical attention.

**INHALATION:** If ill effects occur, remove to fresh air and provide oxygen. If breathing is difficult, seek medical attention.

### **SECTION V - FIRE FIGHTING MEASURES**

#### **FLAMMABLE PROPERTIES:**

FLASH POINT: > 200 Deg. F (93 Deg. C)      Method: Setflash

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon monoxide, carbon dioxide, acids and aldehydes.

**EXTINGUISHING MEDIA:** Alcohol Foam, carbon dioxide, dry chemical or water fog.

**FIRE FIGHTING INSTRUCTIONS:** Do not enter confined fire space without full bunker gear including NIOSH approved self-contained breathing apparatus.

### **SECTION VI - ACCIDENTAL RELEASE MEASURES**

#### **SMALL SPILL:**

Absorb spill with suitable absorbent material (dry sand, earth) and shovel into closed containers for disposal. Flush contaminated area with water.

#### **LARGE SPILL:**

Dike area and pump into closed storage containers. Soak up residue with an absorbent such as clay, sand or other suitable material. Flush area with water to remove trace residue. Prevent runoff from entering into storm sewers and ditches that could lead to natural waterways. Wear protective equipment during cleanup.

### **SECTION VII - HANDLING AND STORAGE**

#### **HANDLING:**

This material may cause sensitization. Do not get in eyes, on skin or clothing. Do not allow contaminated clothing to come in contact with skin. Avoid contact with vapors and fumes. Wear protective equipment. May be slightly toxic or harmful if swallowed.

#### **STORAGE:**

Store in closed containers in a cool, dry place with adequate ventilation. Keep away from open flames and high temperatures.

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Product Code: 155 Part A (Resin)

### **SECTION VIII - EXPOSURE CONTROLS AND PERSONAL PROTECTION**

#### **ENGINEERING CONTROLS:**

Control airborne concentrations below the exposure limits. Use only with adequate ventilation. Local exhaust and general ventilation is recommended.

#### **RESPIRATORY PROTECTION:**

Avoid breathing vapor or mists. Use NIOSH approved respirator suitable for organic vapors to prevent overexposure.

#### **SKIN PROTECTION:**

Chemical-resistant plastic or rubber gloves. Wear protective equipment as required to prevent wetting the skin or clothing.

#### **EYE PROTECTION:**

Chemical splash goggles.

### **SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES**

VAPOR DENSITY: Non-volatile

% VOLATILES: NIL

RELATIVE DENSITY: 1.14

ODOR: Mild, characteristic odor

APPEARANCE: Resinous, viscous liquid. Yellow

### **SECTION X - STABILITY AND REACTIVITY**

#### **CHEMICAL STABILITY: (CONDITIONS TO AVOID)**

Keep away from heat and warm storage areas. Stable.

#### **INCOMPATIBILITY:**

Strong oxidizers, acids, alkalis and epoxy hardeners under uncontrolled conditions.

#### **HAZARDOUS DECOMPOSITION PRODUCTS:**

Carbon monoxide, carbon dioxide, aldehydes and acids may be formed during combustion.

#### **HAZARDOUS POLYMERIZATION:**

Will not occur. Stable under normal use conditions.

### **SECTION XI - TOXICOLOGICAL INFORMATION**

Acute oral toxicity: Expected to be low toxicity, LD50 > 2000 mg/kg

Acute dermal toxicity: Expected to be low toxicity LD50>2000 mg/kg

### **SECTION XII - ECOLOGICAL INFORMATION**

None available

### **SECTION XIII - DISPOSAL CONSIDERATIONS**

Care should be taken to ensure that the material or its containers are disposed of in an approved facility in accordance with current federal, state and local regulations. If this material becomes a waste, it would not be a hazardous waster by RCRA criteria (40CFR 261)

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Product Code: 155 Part A (Resin)

**SECTION XIV - TRANSPORT INFORMATION**

Not regulated by DOT

**SECTION XV - REGULATORY INFORMATION**

Prepared in accordance with 29 CFR 1910.1200

**SARA SECTION 313 LISTED INGREDIENTS:**

This product does not contain any substances that are subject to the reporting requirements of 40 CFR 372.

**SECTION XVI - OTHER INFORMATION**

This information herein is given in good faith and is accurate to the best of NSP Specialty Products knowledge based on published MSDS from manufacturers, however no warranty, express or implied, is made as to the accuracy or completeness of these data and recommendations.

**MATERIAL SAFETY DATA SHEET**

Effective and Print Date: 6/01/07      MSDS #1552007B    Page #1

**SECTION I - PRODUCT AND COMPANY IDENTIFICATION**

Product Code: 155 Part B (Hardener)  
Product Name: NSP 155 Binder Resin  
Product Class: Formulated Modified Epoxy Amine Hardener  
CAS Number: None Assigned

NSP Specialty Products, P. O. Box 4690, Pinehurst, NC 28374- 24 hr. Emergency Phone (910)235-0468 or (800)248-8907

**SECTION II - INFORMATION ON INGREDIENTS**

**Ingredients**                      **CAS#**                      **Exposure Limits**

Aliphatic Amine                      Proprietary                      None Assigned

\*Modified polyamine composition – Specific identity of this mixture withheld as trade secret.

**SECTION III - HAZARDS IDENTIFICATION**

\*\*\*\*\***EMERGENCY OVERVIEW**\*\*\*\*\*

Clear liquid, amine odor. Extremely harmful if swallowed. Causes severe eye irritation. Causes skin irritation. May cause allergic skin reaction and sensitization. Avoid contact with eyes, skin or clothing. Avoid breathing mist or spray.

\*\*\*\*\*

**Potential Health Effects**

**EYE:** Causes severe eye irritation.

**SKIN:** Causes moderate to severe skin irritation. May cause allergic skin reaction and sensitization.

**INGESTION:** Substance is extremely harmful if swallowed.

**INHALATION:** Prolonged or repeated inhalation may cause lung damage or respiratory irritation. Avoid breathing mist or spray.

**CHRONIC (CANCER INFORMATION):**

This component has not been classified by International Agency for Research on Cancer (IARC).

## **MATERIAL SAFETY DATA SHEET**

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Product Code: 155 Part B (Hardener)

### **SECTION IV - FIRST AID MEASURES**

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids apart to ensure rinsing of the entire eye surface and lids with water. If physician is not available, continue flushing for an additional 60 minutes. Get immediate medical attention.

**SKIN:** Immediately remove contaminated clothing and shoes under safety shower. Wash affected areas with mild soap and water for at least 15 minutes. Get medical attention. Discard or decontaminate clothing before re-use.

**INGESTION:** Harmful if swallowed. If ingested, severe burns of mouth and throat may occur. Do not induce vomiting. If vomiting occurs, keep head below hips to prevent aspiration. Get immediate medical attention.

**INHALATION:** Harmful if inhaled and may cause delayed lung injury. If ill effects occur, remove to fresh air. If breathing is difficult, get immediate medical attention. If breathing has stopped or is labored, give assisted respirations or oxygen as indicated.

### **SECTION V - FIRE FIGHTING MEASURES**

#### **FLAMMABLE PROPERTIES:**

FLASH POINT: > 200 Deg. F (93 Deg. C) Method: CC

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon monoxide, carbon dioxide, aldehydes, nitrogen oxides,

**EXTINGUISHING MEDIA:** Alcohol foam, carbon dioxide, dry chemical or water spray.

**FIRE FIGHTING INSTRUCTIONS:** Do not enter confined fire space without full bunker gear including NIOSH approved self-contained breathing apparatus.

### **SECTION VI - ACCIDENTAL RELEASE MEASURES**

#### **SMALL SPILL:**

Absorb spill with suitable absorbent material (dry sand, earth) and shovel into closed containers for disposal. Flush contaminated area with water.

#### **LARGE SPILL:**

Dike area and pump into closed storage containers. Soak up residue with an absorbent such as clay, sand or other suitable material. Flush area with water to remove trace residue. Prevent runoff from entering into storm sewers and ditches that could lead to natural waterways. Wear protective equipment during cleanup.

### **SECTION VII - HANDLING AND STORAGE**

#### **HANDLING:**

This material may cause sensitization. Do not get in eyes, on skin or clothing. Do not allow contaminated clothing to come in contact with skin. Avoid contact with vapors and fumes. Wear protective equipment. May be slightly toxic or harmful if swallowed.

#### **STORAGE:**

Store in closed containers in a cool, dry place with adequate ventilation. Keep away from open flames and high

temperatures.

## **MATERIAL SAFETY DATA SHEET**

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### **SECTION VIII - EXPOSURE CONTROLS AND PERSONAL PROTECTION**

#### **ENGINEERING CONTROLS:**

Control airborne concentrations below the exposure limits. Use only with adequate ventilation. Local exhaust and general ventilation is recommended.

#### **RESPIRATORY PROTECTION:**

NIOSH approved respirator suitable for organic vapors to prevent overexposure.

#### **SKIN PROTECTION:**

Chemical-resistant plastic or rubber gloves. Wear protective equipment as required to prevent wetting the skin or clothing.

#### **EYE PROTECTION:**

Chemical splash goggles or full face shield is recommended.

### **SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES**

VAPOR DENSITY: Non-volatile

% VOLATILES: NIL

SOLUBILITY IN WATER: Insoluble

SPECIFIC GRAVITY: .97

ODOR: Amine odor, fishy

APPEARANCE: Clear liquid

### **SECTION X - STABILITY AND REACTIVITY**

#### **CHEMICAL STABILITY: (CONDITIONS TO AVOID)**

Keep away from heat, high temperatures and warm storage. Stable under normal conditions.

#### **INCOMPATIBILITY:**

Strong oxidizers, acids and epoxy resins under uncontrolled conditions.

#### **HAZARDOUS DECOMPOSITION PRODUCTS:**

Carbon monoxide, carbon dioxide, aldehydes, nitrogen oxides.

#### **HAZARDOUS POLYMERIZATION:**

Will not occur.

## ***MATERIAL SAFETY DATA SHEET***

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Product Code: 155 Part B (Hardener)

### **SECTION XI - TOXICOLOGICAL INFORMATION**

None available

### **SECTION XII - ECOLOGICAL INFORMATION**

None available

### **SECTION XIII - DISPOSAL CONSIDERATIONS**

Care should be taken to ensure that the material or its containers are disposed of in an approved facility in accordance with current federal, state and local regulations.

### **SECTION XIV - TRANSPORT INFORMATION**

Not regulated by DOT

### **SECTION XV - REGULATORY INFORMATION**

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### **SARA SECTION 313 LISTED INGREDIENTS:**

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