



**ND INDUSTRIES, INC.**  
**1893 BARRETT ROAD**  
**TROY, MICHIGAN 48084**  
 (248) 288-0000 Fax: (248) 288-0022  
**24 hr. EMERGENCY CHEMTREC:**  
**1-800-424-9300**

**PRODUCT: ND High Temperature Nylon Patch®**  
**MSDS ID: ND3293**  
**ORIG. DATE: 4/22/2005**  
**REV. DATE: 4/20/06**  
**REV. DATE:**

**PREPARED BY: Chemical Safety**

**SECTION I -Material Identification and Information H: 2 F: 2 R: 0 PPE:C**

COMPONENTS	CAS #	PERCENT %	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
Nylon 11	NP-00-573	25587-80-8 70-75	not est.	not est.	
Ceramic Filler	NP-00-612	mixture 10-18	n.e.	n.e.	
Acrylic Polymer	NP-00-448	25608-33-7 1-5	n.e.	n.e.	
Epoxy Resin	NP-00-307	25036-25-3 2-7	n.e.	n.e.	

\* Note: The remaining components of this product are not considered hazardous substances or are below reportable levels under OSHA's Hazard Communication Standard (29 CFR 1910.1200)

All ingredients are listed on the TSCA Inventory. n.a.= not applicable / n.e.=not established

**SECTION II -Physical and Chemical Characteristics**

<b>BOILING POINT:</b>	n.a.		<b>VOC #/gal. :</b> n.a.
<b>VAPOR DENSITY:</b>	n.a.	air = 1	
<b>VAPOR PRESSURE:</b>	n.a.		<b>DENSITY OF COATING:</b> n.a.
<b>MELTING POINT:</b>	> 348°F		
<b>SPECIFIC GRAVITY:</b>	1.10 ±0.15	water = 1	
<b>EVAPORATION RATE:</b>	n.a.		
<b>WATER REACTIVE:</b>	No.		
<b>SOLUBILITY IN WATER:</b>	Insoluble.		
<b>APPEARANCE AND ODOR:</b>	Finely divided powder with slight odor.		

**SECTION III - Fire and Explosion Hazard Data**

<b>FLASH POINT:</b>	n.e.
<b>AUTOIGNITION TEMPERATURE:</b>	n.e.
<b>FLAMMABILITY LIMITS % IN AIR:</b>	LEL: n.e. UEL: n.e.
<b>EXTINGUISHER MEDIA:</b>	Use dry chemicals, foam, CO2, water, and/or water fog.
<b>SPECIAL FIREFIGHTING PROCEDURES:</b>	Wear NIOSH approved self-contained breathing apparatus with full face piece operated in pressure-demand or other positive pressure mode when fighting fires. Cool fire-exposed containers.
<b>UNUSUAL FIRE HAZARDS AND CONDITIONS TO AVOID:</b>	Combustion of this product yields oxides of carbon and nitrogen. Material in dust form is capable of creating a dust explosion.

# MATERIAL SAFETY DATA SHEET

**PRODUCT:** ND High Temperature Nylon Patch®

## SECTION IV - Reactivity Hazard Data

**STABILITY:**        **stable:**                       **unstable:**  
**HAZARDOUS POLYMERIZATION:**        **may occur:**                      **will not occur:**       

**CONDITIONS TO AVOID:**        Avoid high temperatures, open flame, sparks, etc...

**INCOMPATIBILITY:**        Avoid high temperatures, acetyl polymers, and amines.

**HAZARDOUS DECOMPOSITION PRODUCTS:**        Combustion yields oxides of carbon and nitrogen.

## SECTION V - Health Hazard Data

**PRIMARY ROUTES OF ENTRY:**        **INHALATION:**                       **INGESTION:**                       **SKIN ABSORPTION:**

**EYE CONTACT:**        May be irritating to the eyes.

**FIRST AID:**        Flush eyes with generous amount of water for 15 minutes lifting both upper and lower eyelids occasionally. Get medical attention.

**SKIN CONTACT:**        May be irritating to the skin.

**FIRST AID:**        Thoroughly wash exposed area with soap and water. If irritation develops, seek medical attention. Launder all clothing before reuse.

**INHALATION:**        When heated or fused, nylon compound may emit fumes and vapors that may be irritating to the respiratory tract and may be noxious to sensitive persons.

**FIRST AID:**        Remove individual to fresh air. Restore or support breathing as necessary. Get medical attention.

**INGESTION:**        Not expected to be a route of entry.

**FIRST AID:**        If swallowed, give person two glasses of milk or water. Get medical attention. Never give anything by mouth to an unconscious person.

**CHRONIC EFFECTS:**        None known

**Carcinogenic:**        This material does not contain any materials listed as carcinogenic.

# MATERIAL SAFETY DATA SHEET

**PRODUCT: ND High Temperature Nylon Patch®**

Component	Oral LD50	Dermal LD50	Inhalation LC50
Nylon 11	Not determined	Not determined	Not determined
Ceramic Filler	Not determined	Not determined	Not determined
Acrylic Polymer	Not determined	Not determined	Not determined
Epoxy Resin	Not determined	Not determined	Not determined

## SECTION VI - Control and Protective Measures

**RESPIRATORY PROTECTION:** Work in a well-ventilated area. Wear approved respirator in high vapor concentration.

**PROTECTIVE GLOVES:** Wear rubber or vinyl.

**EYE PROTECTION:** Wear approved chemical splash goggles.

**VENTILATION TO BE USED:** LOCAL EXHAUST:  MECHANICAL: SPECIFIC: OTHER (specify): Work in a well-ventilated area.

**PROTECTIVE CLOTHING AND EQUIPMENT:** Wear impervious clothing to prevent prolonged, repeated skin exposure.

**HYGIENIC WORK PRACTICES:** Practice good personal hygiene and wash hands after using product. Remove sources of ignition. No smoking.

## SECTION VII - Precautions for Safe Handling and Spill/Leak Procedures

### STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED:

Vacuum or sweep material into a closed container. Avoid creating a dust hazard. Dispose of material properly.

**WASTE DISPOSAL METHODS:** Dispose of material in accordance to local, state and federal regulations.

**SAFE HANDLING AND STORAGE:** Avoid all skin contact and inhalation of any fumes. Avoid creating a dust hazard.

### OTHER PRECAUTIONS AND SPECIAL HAZARDOUS INFORMATION:

None known.

**RECOMMENDED  
NFPA/HMIS  
RATING**

**HEALTH 2**

**FLAMMABILITY 2**

**REACTIVITY 0**

**PERSONAL  
PROTECTION C**

note: ratings may differ according to application, environment, and physical state.

# MATERIAL SAFETY DATA SHEET

**PRODUCT: ND High Temperature Nylon Patch®**

**NOTES:**

Shipping Regulations:  
DOT and IATA Hazard Classification: Non restricted Articles  
Proper DOT Shipping Name: N/A

**SECTION 313 SUPPLIER NOTIFICATION**

Detaching this notification from the Material Safety Data Sheet is prohibited by law and any copying or distribution of same requires this attachment be included.

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR 372:

<u>CAS #</u>	<u>CHEMICAL NAME</u>	<u>% BY WEIGHT</u>
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This material does not contain any components which are listed section 313 at or above *de minimis* concentrations

This product contains the following materials that under California Proposition 65 of the Safe Drinking Water and Toxic Enforcement Act of 1986 are recognized to cause cancer or reproductive toxicity.

<u>Material</u>	<u>CAS #</u>	<u>Concentration %</u>	<u>Cancer Agent</u>	<u>Reproductive Toxin</u>	<u>cancer agent &amp; Reproductive Toxin</u>
None					

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