



**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 Patch®**

MSDS ID: **ND2035**  
 ORIG. DATE: **2/01/96**  
 REV. DATE: **11/3/03**  
 REV. DATE: **12/18/08**

PREPARED BY: **Chemical Safety**

**SECTION I -Material Identification and Information H: 1 F: 1 R: 0 PPE:C**

COMPONENTS	CAS #	PERCENT %	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
Nylon	NDPT-02-182	25587-80-8 80-90	n.a.	n.a.	
Epoxy Resin		non-hazardous 5-10	n.e.	n.e.	
Pigment		various 1-5	varies	varies	

As a minimum, powder coatings should be treated as a nuisance dust (particulate not otherwise regulated or classified). Specific ingredients in this product may warrant more stringent precautions.

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 #/US gal. :</b>
<b>VAPOR DENSITY:</b>	n.a.	air = 1	<b>DENSITY OF COATING:</b>
<b>VAPOR PRESSURE:</b>	n.a.		
<b>MELTING POINT:</b>	> 190°C		
<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>	Negligible.		
<b>APPEARANCE AND ODOR:</b>	Solid plastic thermally applied to fastener. Color varies.		

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

**FLASH POINT:** n.a.

**AUTOIGNITION TEMPERATURE:** n.a.

**FLAMMABILITY LIMITS % IN AIR:** LEL: n.a. UEL: n.a.

**EXTINGUISHER MEDIA:** Use dry chemicals, foam, CO2, water, and/or water fog.

**SPECIAL FIREFIGHTING PROCEDURES:**

Products of combustion may be toxic; avoid breathing fumes. Fire fighters should be equipped with a self-contained breathing apparatus. Do not enter confined fire space without full bunker gear ( helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure, NIOSH listed self-contained breathing apparatus. Cool fire exposed containers with water.

**UNUSUAL FIRE HAZARDS AND CONDITIONS TO AVOID:**

No hazard in applied form.

# MATERIAL SAFETY DATA SHEET

**PRODUCT:** ND Patch®

## SECTION IV - Reactivity Hazard Data

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

**CONDITIONS TO AVOID:**      Avoid high temperatures, and open flames.

**INCOMPATIBILITY:** Strong oxidizing agents, acids.

**HAZARDOUS DECOMPOSITION PRODUCTS:**      This materials are normally stable and decompose only in extreme cases such as fire. Oxides of nitrogen and carbon are the expected products of combustion in the presence of large amounts of air. The products of poorly ventilated combustion are an uncharacterized mixture of organic compounds. This mixture will be as hazardous as the normal fire gasses associated with poorly ventilated combustion.

## SECTION V - Health Hazard Data

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

**EYE CONTACT:**      May be a mechanical irritant of the eyes.

**FIRST AID:**      Flush eyes with generous amount of water for 15 minutes lifting both upper and lower eyelids occasionally. Rinse entire surface of the eye and lids with water. Seek medical attention if eye irritation occurs.

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

**FIRST AID:**      Flush all affected areas with plenty of water for several minutes. Remove and clean any contaminated clothing and shoes. Seek medical attention if skin irritation occurs.

**INHALATION:**      Unlikely a hazard in applied form

**FIRST AID:**

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

**FIRST AID:**      If a large amount of this material is swallowed, give several glasses of water. Contact medical personnel for further assistance. Never give anything by mouth to an unconscious or convulsing person.

**CHRONIC EFFECTS:**      None in applied form.

**Carcinogenic:**      Nickel and certain nickel components have been classified by the National Toxicity Program (NTP) as substances or groups of substances that may reasonably be anticipated to be a carcinogen. The nickel compound in this product was not one of the specific chemicals discussed by NTP.

# MATERIAL SAFETY DATA SHEET

**PRODUCT: ND Patch®**

Component	Oral LD50	Dermal LD50	Inhalation LC50
Nylon	Not determined	Not determined	Not determined
Ni Sb Ti Yellow Rutile	Not determined	Not determined	Not determined
Material as a whole	>10,000 mg/kg (rat)		

## SECTION VI - Control and Protective Measures

**RESPIRATORY PROTECTION:** Work in a well-ventilated area. Use a NIOSH/MSHA approved respirator in concentrations above the exposure level.

**PROTECTIVE GLOVES:** Permeation resistant gloves are recommended for prolonged and/or repeated contact with powder.

**EYE PROTECTION:** Wear NIOSH approved safety glasses with side shields.

**VENTILATION TO BE USED:** LOCAL EXHAUST:  MECHANICAL: SPECIFIC: OTHER (specify):

**PROTECTIVE CLOTHING AND EQUIPMENT:** Wear clean protective clothing to minimize contact with skin and clothing.

**HYGIENIC WORK PRACTICES:** Practice good personal hygiene and wash hands after using product.

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

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

Sweep solid material and fasteners and place in a receptacle for proper disposal.

**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 dusts.

**OTHER PRECAUTIONS AND SPECIAL HAZARDOUS INFORMATION:**

**RECOMMENDED  
NFPA/HMIS  
RATING**

**HEALTH 1**

**FLAMMABILITY 1**

**REACTIVITY 0**

**PERSONAL  
PROTECTION C**

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

# MATERIAL SAFETY DATA SHEET

PRODUCT: ND Patch®

## NOTES:

Proper DOT shipping name:  
Not regulated

## 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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Contact ND Industries for specific information.

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>
Contact ND Industries for specific information.					

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