

# MATERIAL SAFETY DATA SHEET



**Date-Issued:** 12/10/2002  
**MSDS Ref. No:** PL1816-NTE-25F  
**Date-Revised:** 12/10/2002  
**Revision No:** 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT DESCRIPTION:** ECG Braided copper wire treated with flux  
**PRODUCT CODE:** PL1816-NTE through PL1817-NTE, PL1823-NTE

### MANUFACTURER

NTE Electronics, Inc.  
 44 Farrand St.  
 Bloomfield, NJ 07003

**Phone: 973-748-5089**

### 24 HR. EMERGENCY TELEPHONE NUMBERS

**CHEMTREC (U.S.):** (800) 424-9300

**CANUTEC:** (613) 996-6666

**Emergency Phone:** 1-888-748-1777 8:00 am - 5:00 pm CST

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS#</u>	<u>EINECS#</u>
Non-ionic flux mixture (Proprietary non-hazardous blend)	<5		NIF

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE:** Copper braid with resin on surface.

**IMMEDIATE CONCERNS:** Very mild (if any) eye/skin irritant.

### POTENTIAL HEALTH EFFECTS

**EYES:** Avoid contact with eyes; may cause redness, irritation and conjunctivitis.

**SKIN:** May cause skin irritation.

**INGESTION:** Substance may be harmful if swallowed.

**INHALATION:** Not a likely route of exposure.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**EYES:** Contact may cause eye irritation.

**SKIN:** May cause slight irritation.

**INGESTION:** For large amounts; abdominal pain, nausea and vomiting.

**INHALATION:** No observable effects of overexposure.

**ACUTE TOXICITY:** No hazard in normal industrial use.

**CHRONIC:** Not Established

**CARCINOGENICITY:** Not Established

**MUTAGENICITY:** Not Established

#### **REPRODUCTIVE TOXICITY**

**REPRODUCTIVE EFFECTS:** Not Established

**TERATOGENIC EFFECTS:** Not Established

---

### **4. FIRST AID MEASURES**

**EYES:** Flush eye with water for 15 minutes. Get medical attention.

**SKIN:** Immediately flush with large amounts of water. Use soap if available. Remove contaminated clothing, including shoes, after flushing has begun. Get prompt medical attention.

**INGESTION:** If swallowed, gently wipe or rinse the inside of the mouth with water. DO NOT induce vomiting. Sips of water may be given if person is fully conscious. Never give anything by mouth to an unconscious or convulsing person. Immediately contact a poison control center, emergency room or physician as further treatment may be necessary.

**INHALATION:** No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

---

### **5. FIRE FIGHTING MEASURES**

**FLASHPOINT AND METHOD:** None

**FLAMMABLE LIMITS:** N/A to N/A

**AUTOIGNITION TEMPERATURE:** Not Applicable

**HAZARDOUS COMBUSTION PRODUCTS:** Smoke, fumes and oxides of carbon.

**FIRE FIGHTING PROCEDURES:** Use water spray to cool containers.

**FIRE FIGHTING EQUIPMENT:** As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Forced combustion yields carbon and silicone oxides.

---

### **6. ACCIDENTAL RELEASE MEASURES**

**GENERAL PROCEDURES:** Vacuum or sweep up material and place in a disposal container.

---

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Wash thoroughly after handling. Use only in a well ventilated area. Store in a cool dry place.

**HANDLING:** Use with adequate ventilation.

**STORAGE:** Store in a cool place in original container and protect from sunlight.

**STORAGE TEMPERATURE:** Not Determined

---

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

**SKIN:** The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection.

Buna

Butyl

Natural Latex

Neoprene

Solvex

Butyl Rubber

Solvex

**RESPIRATORY:** NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

**WORK HYGIENIC PRACTICES:** Wash hands before eating and wash before reuse.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Solid

**ODOR:** None

**APPEARANCE:** Copper braid with resin on surface.

**pH:** Not Applicable

**PERCENT VOLATILE:** None

**VAPOR PRESSURE:** Not Applicable  
**VAPOR DENSITY:** Not Applicable  
**BOILING POINT:** Not Applicable  
**FREEZING POINT:** Not Applicable  
**MELTING POINT:** Not Established  
**DENSITY:** Not Applicable  
**SPECIFIC GRAVITY:** Not Applicable  
**VISCOSITY:** Not Applicable  
**MOLECULAR WEIGHT:** Not Applicable

---

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Stable. However, may decompose if heated.

**STABILITY:** Stable.

**POLYMERIZATION:** Will not occur.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Forced combustion yields carbon and silicone oxides.

**INCOMPATIBLE MATERIALS:** Oxidizing materials.

---

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

**EYES:** Not Established

**DERMAL LD<sub>50</sub>:** Not Established

**SKIN ABSORPTION:** Not Established

**ORAL LD<sub>50</sub>:** Not Established

**INHALATION LC<sub>50</sub>:** Not Established

**EYE EFFECTS:** Not Established

**SKIN EFFECTS:** Not Established

**SENSITIZATION:** Not Established

---

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** Biodegradability - Minimal

**ECOTOXICOLOGICAL INFORMATION:** Not Established

---

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Federal, State, and Local laws governing disposal of materials can differ. Ensure compliance with proper authorities before disposal.

**GENERAL COMMENTS:** Dispose of in a manner consistent with federal, state, and local regulations.

---

## 14. TRANSPORT INFORMATION

### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Nonhazardous

**TECHNICAL NAME:** Nonhazardous

**UN/NA NUMBER:** N/A

**PACKING GROUP:** N/A

**NAERG:** N/A

### CANADA TRANSPORT OF DANGEROUS GOODS

**PROPER SHIPPING NAME:** Nonhazardous

**UN/NA NUMBER:** N/A

**PACKING GROUP:** N/A

**CANUTEC GUIDE:** N/A

### AIR (ICAO/IATA)

**PROPER SHIPPING NAME:** Nonhazardous

**UN/NA NUMBER:** N/A

**PACKING GROUP:** N/A

### VESSEL (IMO/IMDG)

**PROPER SHIPPING NAME:** Nonhazardous

**UN/NA NUMBER:** N/A

**PACKING GROUP:** N/A

---

## 15. REGULATORY INFORMATION

### UNITED STATES

#### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**311/312 HAZARD CATEGORIES:** None

**FIRE: NO PRESSURE GENERATING: NO REACTIVITY: NO ACUTE: NO CHRONIC: NO**

**313 REPORTABLE INGREDIENTS:** Not considered a SARA 313 "Toxic Chemical".

**TITLE III NOTES:** Not listed as an Extremely Hazardous Substance.

#### 302/304 EMERGENCY PLANNING

**EMERGENCY PLAN:** NA = Not Applicable

#### CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

**CERCLA REGULATORY:** NA = Not Applicable

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

**TSCA REGULATORY:** All chemicals in this product are listed on the TSCA Inventory.

**OSHA HAZARD COMM. RULE:** Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

**CLEAN AIR ACT**

**40 CFR PART 68---RISK MANAGEMENT FOR CHEMICAL ACCIDENT RELEASE PREVENTION:** Not Established

**OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)**

**29 CFR 1910.119---PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS:** None of the chemicals in this product are considered highly hazardous by OSHA.

**CANADA**

**WHMIS (WORKER HAZARDOUS MATERIALS INFORMATION SYSTEM):** This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

**CALIFORNIA PROPOSITION 65:** This product does not contain any chemicals known to the State of California to cause cancer.

**16. OTHER INFORMATION**

**APPROVED BY:** Pierce A. Pillon    **TITLE:** Chemist

**REVISION SUMMARY** Revision #: 1

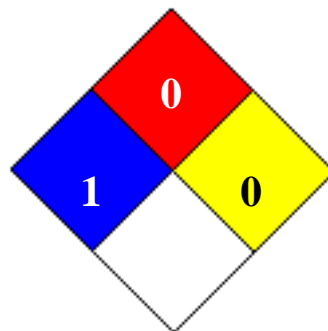
This MSDS replaces the December 10, 2002 MSDS. Any changes in information are as follows:

In Section 1

Product Code

**HMIS RATING**

<b>HEALTH:</b>		<b>1</b>
<b>FLAMMABILITY:</b>		<b>0</b>
<b>PHYSICAL HAZARD:</b>		<b>0</b>
<b>PERSONAL PROTECTION:</b>		

**NFPA CODES**

**DATA SOURCES:** Code of Federal Regulations (CFR)  
 The Sigma-Aldrich Library of Regulatory and Safety Data  
 OSHA Hazard Communication Standard (29CFR1910.1200)  
 Various Federal, State and Local Regulations

**MANUFACTURER DISCLAIMER:** To the best of our knowledge, the information contained herein is accurate. However, neither Stratus, or any of its subsidiaries assumes any liability whatsoever for the accuracy or

completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.