

# MATERIAL SAFETY DATA SHEET



**Date-Issued:** 12/11/2002  
**MSDS Ref. No:** 1830-5F  
**Date-Revised:** 12/12/2002  
**Revision No:** 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT DESCRIPTION:** Oxygen-free, high conductive copper braid (Nude)

**PRODUCT CODE:** 1830 through 1835 Unfluxed Wick

### MANUFACTURER

Techspray, L.P.  
1001 N.W. 1st Street  
P.O. Box 949  
Amarillo, TX 79107  
**Contact:** Chemtrec  
**Product Stewardship:** 1-800-858-4043

### 24 HR. EMERGENCY TELEPHONE NUMBERS

**CHEMTREC (U.S.):** (800) 424-9300  
**CANUTEC:** (613) 996-6666  
**Emergency Phone:** 1-800-858-4043

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS#</u>	<u>EINECS#</u>
Untreated copper braid	0 - 100		

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE:** Nude copper braided wire

**IMMEDIATE CONCERNS:** No hazard in normal industrial use.

### POTENTIAL HEALTH EFFECTS

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

**SKIN:** May cause skin irritation.

**INGESTION:** Not likely to be ingested.

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

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

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

**SKIN:** May cause slight irritation.

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

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

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

**CHRONIC:** None Expected.

**CARCINOGENICITY:** Not Established

**MUTAGENICITY:** Not Available

## **REPRODUCTIVE TOXICITY**

**REPRODUCTIVE EFFECTS:** Not Established

**TERATOGENIC EFFECTS:** Not considered a developmental toxicant.

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## **4. FIRST AID MEASURES**

**EYES:** Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

**SKIN:** Wash with soap and water. Get medical attention if irritation develops or persists.

**INGESTION:** Ingestion is unlikely because of the physical properties and is not expected to be hazardous. Do not induce vomiting unless instructed to do so by a physician.

**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.

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## **5. FIRE FIGHTING MEASURES**

**FLASHPOINT AND METHOD:** Not Applicable

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

**AUTOIGNITION TEMPERATURE:** Not Applicable

**EXTINGUISHING MEDIA:** As appropriate for combustibles in area.

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

**EXPLOSION HAZARDS:** None

**FIRE FIGHTING PROCEDURES:** Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

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

**AUTOIGNITION TEMPERATURE:** Not Applicable

**FLAMMABLE LIMIT:** Not Applicable

**FLASHPOINT:** Not Applicable

**FIRE EXPLOSION:** Not Approved

**SENSITIVE TO STATIC DISCHARGE:** None

**SENSITIVITY TO IMPACT:** None

**HAZARDOUS DECOMPOSITION PRODUCTS:** None Expected.

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## 6. ACCIDENTAL RELEASE MEASURES

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

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## 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 closed, properly labeled containers.

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## 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

**RESPIRATORY:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

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

**OTHER USE PRECAUTIONS:** Emergency shower and eyewash facility should be in close proximity.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Solid

**ODOR:** None

**APPEARANCE:** Nude copper braided wire.

**COLOR:** Dull to shiney gold color.

**pH:** Not Applicable

**PERCENT VOLATILE:** None

**VAPOR PRESSURE:** Not Applicable

**VAPOR DENSITY:** Not Applicable

**BOILING POINT:** (4703°F)(760 mmHg)

**FREEZING POINT:** Not Applicable

**MELTING POINT:** (1981°F)

**EVAPORATION RATE:** None

**DENSITY:** Not Applicable

**SPECIFIC GRAVITY:** Not Applicable

**VISCOSITY:** Not Applicable

**MOLECULAR WEIGHT:** Not Applicable

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## 10. STABILITY AND REACTIVITY

**STABLE:** YES

**HAZARDOUS POLYMERIZATION:** NO

**CONDITIONS TO AVOID:** Oxidizing material. Chlorine. Fluorine. Prolonged moisture exposure.

**STABILITY:** Stable.

**POLYMERIZATION:** Will not occur.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None Expected.

**INCOMPATIBLE MATERIALS:** Strong oxidants like liquid chlorine or concentrated oxygen.

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## 11. TOXICOLOGICAL INFORMATION

**EYE EFFECTS:** May be mildly irritating to eyes.

**SKIN EFFECTS:** Causes irritation to skin.

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## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** Not Available

**ECOTOXICOLOGICAL INFORMATION:** Not Available

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## 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.

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## 14. TRANSPORT INFORMATION

### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Not restricted

**TECHNICAL NAME:** Not restricted

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

**PACKING GROUP:** N/A

### CANADA TRANSPORT OF DANGEROUS GOODS

**PROPER SHIPPING NAME:** Not restricted

**TECHNICAL NAME:** Not restricted

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

**PACKING GROUP:** N/A

### AIR (ICAO/IATA)

**PROPER SHIPPING NAME:** Not restricted

**TECHNICAL NAME:** Not restricted

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

**PACKING GROUP:** N/A

### VESSEL (IMO/IMDG)

**PROPER SHIPPING NAME:** Not restricted

**TECHNICAL NAME:** Not restricted

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

**PACKING GROUP:** N/A

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## 15. REGULATORY INFORMATION

### UNITED STATES

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

##### 311/312 HAZARD CATEGORIES:

**FIRE:** NO   **PRESSURE GENERATING:** NO   **REACTIVITY:** NO

#### TSCA (TOXIC SUBSTANCE CONTROL ACT)

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

**TSCA STATUS:** All components of this product are either listed or exempt from listing in the TSCA inventory.

**RCRA STATUS:** None

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

## 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.

**DOMESTIC SUBSTANCE LIST (INVENTORY):** All components of this product are listed on the Canadian DSL.

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

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## 16. OTHER INFORMATION

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

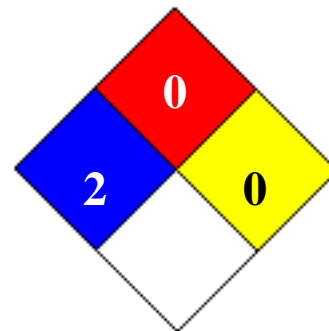
**REVISION SUMMARY** Revision #: 1

This MSDS replaces the December 12, 2002 MSDS. Any changes in information are as follows:  
In Section 3  
Potential Health Effects - Skin

### HMIS RATING

<b>HEALTH:</b>		<b>2</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

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