

Date Issued: 12/10/2002 **MSDS No:** 1814-5F **Date Revised:** 11/02/2011

Revision No: 7

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT DESCRIPTION: Braided copper wire treated with flux **PRODUCT CODE:** 1814 through 1825, 1827-5F, -10F, 1829-5F

MANUFACTURER

24 HR. EMERGENCY TELEPHONE NUMBERS

Techspray, L.P. CHEMTREC CCN#21858 (US Transportation): (800) 424 - 9300 1001 N.W. 1st Street CANUTEC (Canadian Transportation): (613) 996 - 6666 P.O. Box 949 Emergency Phone: (800) 858 - 4043

Amarillo, TX 79107

Emergency Contact: Chemtrec Emergency Phone: 1-800-858-4043 Service Number: 1-800-858-4043

2. HAZARDS IDENTIFICATION

HAZARD DESIGNATION

"Xi" - Irritant

R36/38 - Irritating to eyes and skin.

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 EFFECTS: Not Established
CARCINOGENICITY: Not Established
MUTAGENICITY: Not Established

REPRODUCTIVE TOXICITY

REPRODUCTIVE EFFECTS: Not Established **TERATOGENIC EFFECTS:** Not Established

3. COMPOSITION / INFORMATION ON INGREDIENTS



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Chemical Name	Wt.%	CAS	EINECS
Non-ionic flux mixture (Propietary non-hazardous blend)	< 5		NIF
Copper	> 95	7440-50-8	231-159-6

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



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EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL ACGIH TLV Suppl			ierOEL		
Chemical Name		ppm	mg/m³	ppm	mg/m³	ppm	mg/m³
Copper	TWA	NL [1]	[1]	NL		NL	

OSHA TABLE COMMENTS:

1. * NL = Not Listed

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. Viton, Solvex, Butyl, Buna, Neoprene.

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
FLASHPOINT AND METHOD: None

DENSITY: Not Applicable

SPECIFIC GRAVITY: Not Applicable

VISCOSITY: Not Applicable

MOLECULAR WEIGHT: Not Applicable

10. STABILITY AND REACTIVITY

STABILITY: Stable.



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POLYMERIZATION: Will not occur.

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

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

INCOMPATIBLE MATERIALS: Oxidizing materials.

11. TOXICOLOGICAL INFORMATION

ACUTE

EYES: Not Established

DERMAL LD₅₀: Not Established

SKIN ABSORPTION: Not Established

ORAL LD₅₀: Not Established

INHALATION LC50: 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

ROAD AND RAIL (ADR/RID)

HAZARD CLASS: No classification

AIR (ICAO/IATA)

SHIPPING NAME: Nonhazardous

UN/NA NUMBER: N/A
PACKING GROUP: N/A

VESSEL (IMO/IMDG)

SHIPPING NAME: Nonhazardous



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UN/NA NUMBER: N/A PACKING GROUP: N/A

CANADA TRANSPORT OF DANGEROUS GOODS

SHIPPING NAME: Nonhazardous

UN/NA NUMBER: N/A PACKING GROUP: N/A **CANUTEC GUIDE: 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: Copper (CAS No. 7440-50-8)

EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt.%	CAS
Copper	> 95	7440-50-8

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)

Chemical Name	CAS
Copper	7440-50-8

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

CLEAN AIR ACT

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

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

29 CFR1910.119---PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS: None of the chemicals in this product are considered highly hazardous by OSHA.

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

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

CANADA

WHMIS (WORKPLACE 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.



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EUROPEAN COMMUNITY

EEC LABEL SYMBOL AND CLASSIFICATION



"Xi" - Irritant R36/38 - Irritating to eyes and skin.

16. OTHER INFORMATION

APPROVED BY: Pierce A. Pillon TITLE: Chemist

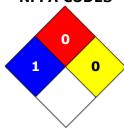
REVISION SUMMARY: This MSDS replaces the 01/17/2011 MSDS. Revised: **Section 16:** GENERAL

STATEMENTS.

HMIS RATING

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

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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