

# Material Safety Data Sheet **WELLER-WICK**

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING.

1.1	Identification of substance (as per label): Other means of identification:	Weller-Wick Desoldering Braid. Part Number: 5011, 5012, 5013, 5014
1.2	<b>MANUFACTURER'S NAME:</b> Easy Braid Company 6751 Oxford Street Minneapolis, MN 55426	<b>EMERGENCY TELEPHONE NUMBER:</b>  <b>ORIGINATION DATE:</b> July, 1996 <b>REVISION DATE:</b> April 30, 1999
		<b>DISTRIBUTOR NAME:</b> Cooper Tools 3535 Glenwood Avenue Raleigh, NC 27612 Information: 919-783-2126

## 2. COMPOSITION/IDENTIFICATION ON INGREDIENTS

CAS NUMBER	INGREDIENTS	%	SYMBOLS	RISK PHASE
7440-50-8	Pure Copper Metal	99.9		
8050-09-7	Modified Rosin	0.1		

2.1	Substances presenting a health hazard:	The 0.1% Rosin may cause allergic reactions: does not contain hazardous ingredients.
2.2	Exposure Limit Values:	Copper - ACGIH TLV
2.3	If substance is confidential – indicate chemical nature to ensure safe handling.	- fume 0.1 mg/m <sup>3</sup> - dust 1.0 mg/m <sup>3</sup>

## 3. HAZARDOUS IDENTIFICATION

3.1	Critical Hazards:	HMIS Hazard Rating 0 – insignificant 1 – slight 2 – moderate 3 – high 4 – extreme
3.2	Critical Hazards to Man & Environment:  Adverse Human Health Effects and Symptoms:	Health – 1 Flammability - 0 Reactivity – 0 Rosin Flux may cause an allergic reaction, resulting in a skin rash. Clean hands after use.  <b>WARNING:</b> This product contains or produces a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

## 4. FIRST AID MEASURE

4.1	<u>Skin Contact:</u> - First Aid: - Symptoms: - Effects: - Delayed Effects: - Medical Attention Needed: <u>Eye Contact:</u> - First Aid - Symptoms - Effects: - Delayed Effects:	Flush skin with copious amounts of water. Rash.  Remove metal fragments and flush eyes with water.
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	<ul style="list-style-type: none"> <li>- Professional Attention Needed:</li> <li><u>Inhalation:</u></li> <li>- First Aid</li> <li>- Symptoms</li> <li>- Effects:</li> <li>- Delayed Effects:</li> <li>- Professional Attention Needed:</li> <li><u>Ingestion:</u></li> <li>- First Aid</li> <li>- Symptoms</li> <li>- Effects:</li> <li>- Delayed Effects:</li> <li>- Professional Attention Needed:</li> </ul>	<p>Remove to fresh air. If breathing has stopped, administer CPR.</p> <p>Induce vomiting.</p> <p>Wire strands could cause internal digestive tract bleeding. Induce vomiting.</p>
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## 5. FIRE FIGHTING MEASURES

5.1	Suitable Extinguishing Media:	Powder Dolomite, Sodium Chloride or Graphite.
5.2	Unsuitable Extinguishing Media:	Do not use water.
5.3	Exposure Hazards:	Copper reacts violently with C2112, N114N03, Bromates, Chlorates, Iodates, Cl <sub>2</sub> , ClF <sub>2</sub> , Ethylene Oxide, F <sub>2</sub> , H <sub>2</sub> O <sub>2</sub> , Hydrazine monoitrate. Hydrazoic acid, H <sub>2</sub> S, K <sub>2</sub> O <sub>2</sub> , NaN <sub>3</sub> , Na <sub>2</sub> O <sub>2</sub> , CUN03, S
5.4	Combustion Products:	
	- Resulting Gases:	Carbon Monoxide, Aliphatic Aldehydes, and Acids.
5.5	Protective Equipment For Firefighters:	Not Needed

## 6. ACCIDENTAL RELEASE MEASURES

6.1	<u>Personal Precessions:</u> <ul style="list-style-type: none"> <li>- Ignition sources?</li> <li>- Provision for sufficient ventilation?</li> <li>- Control of dust?</li> <li>- Prevention of skin contact?</li> <li>- Prevention of eye contact?</li> </ul>	<p>When subjected to temperatures over 180°F, flux fumes should be vented.</p> <p>See Section 8.1.</p> <p>Vacuum or sweep up and dispose of as a non-combustible metal. Gloves not normally required. When clipping, short lengths, protective eyewear is recommended.</p>
6.2	Environmental Precautions:	
6.3	Methods for Cleaning Up:	Vacuum or sweep up and dispose of as a noncombustible solid.
6.4	Materials not to be Used for Cleaning Up:	See above. See section 5, of this document.

## 7. HANDLING & STORAGE

7.1	Handling <ul style="list-style-type: none"> <li>- General Rules</li> <li>- Technical Precautions for Safe Handling</li> <li>- Measures necessary to prevent airborne levels of chemical being generated as a result of handling</li> </ul>	<p>Store in cool; dry environment for functional purposes. None required.</p> <p>If product is exposed to temperatures are above 180° F. use local ventilation.</p>
7.2	Recommended Storage Conditions <ul style="list-style-type: none"> <li>- List incompatible materials</li> <li>- Quantity Limits for storage</li> <li>- Special Requirements for proper storage of chemical</li> </ul>	See sections 5 & 2 of this document.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1	System Design (e.g. Fume Hoods, Ventilated Cabinets, Enclosure)	General mechanical or local hood. Ventilation is recommended for applications where the product will exceed 180° F.
8.2	Control Parameters <ul style="list-style-type: none"> <li>- Limit values or biological standards:</li> </ul>	

8.3	Recommended Monitoring Procedures:	See Section 5, of this document.
8.4	Personal Protection - Respiratory Protection: - Hand Protection: - Eye Protection: - Skin Protection:	Use local or general ventilation away from the operator if the product temperature is exposed to 180° F. Gloves may be used if resin is a skin irritant. Eye protection should be worn when clipping short lengths. See hand protection.
8.5	CEN standards	Carcinogens <0.1%

## 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1	Appearance:	Copper metallic braid with fine crystalline resin layer.
9.2	Odor:	None.
9.3	pH:	N/A
9.4	Boiling Point:	1981 degrees F
9.5	Melting Point:	1949 degrees F
9.6	Flash Point:	No flash
9.7	Flammability (solid gas):	None
9.8	Autoflammability:	None
9.9	Explosive Properties:	None
9.1	Oxidizing Properties:	Copper can oxidize if prolonged exposure in moist conditions.
0	Vapor Pressure:	N/A
9.11	Relative Density:	N/A
9.12	Solubility:	
9.13	- Water Solubility	Negligible
	- Fat Solubility	Unknown
	Partition coefficient, n-octanol/water:	
9.14	Other Data:	
9.15	- Safety Parameters	N/A
	- Vapor Density	N/A
	- Miscibility	N/A
	- Evaporation Rate	N/A
	- Conductivity	Copper is very conductive.
	- Viscosity	A solid

## 10. STABILITY AND REACTIVITY

10.1	Stability	Stable
10.2	Conditions to avoid - Effects	
10.3	Materials to Avoid - Effects	
10.4	Hazardous Decomposition Products - the need for the presence of stabilizers: - hazardous exothermic reaction: - change in appearance in the substance: - hazardous products formed upon contact with water: - possible degradation to unstable products:	Hazardous environment can occur in the presence of excessive heat and/or chemicals as listed in Section 5, this document.

## 11. TOXICOLOGICAL INFORMATION

11.1	Skin Exposure: - Symptoms: - Immediate Effects: - Delayed Effects: - Chronic Effects: - Special Health Effects:	Possible allergic rash reaction. See Section 4, this document.
11.2	Eye Contact: - Symptoms: - Immediate Effects:	Possible danger of metal fragments. See Section 4, this document.

11.3	<ul style="list-style-type: none"> <li>- Delayed Effects:</li> <li>- Chronic Effects</li> <li>- Special Health Effects:</li> </ul> Inhalation: <ul style="list-style-type: none"> <li>- Symptoms:</li> <li>- Immediate Effects:</li> <li>- Delayed Effects:</li> <li>- Chronic Effects</li> <li>- Special Health Effects:</li> </ul>	<p>If product is exposed to temperatures in excess of 180°F, local ventilation must be used.</p>
11.4	Ingestion: <ul style="list-style-type: none"> <li>- Symptoms:</li> <li>- Immediate Effects:</li> <li>- Delayed Effects:</li> <li>- Chronic Effects</li> <li>- Special Health Effects</li> </ul>	<p>May be moderately irritating to stomach lining. Induce vomiting if conscious.</p>

## 12. ECOLOGICAL INFORMATION

12.1	Mobility <ul style="list-style-type: none"> <li>- distribution to environmental compartments</li> <li>- surface tension</li> <li>- absorption/desorption</li> <li>- physical &amp; chemical properties</li> </ul>	Not Applicable.
12.2	Degradability <ul style="list-style-type: none"> <li>- biotic and abiotic degradation</li> <li>- aerobic and anaerobic degradation</li> <li>- persistence</li> </ul>	Not Applicable.
12.3	Accumulation <ul style="list-style-type: none"> <li>- bioaccumulation potential</li> <li>- biomagnification</li> </ul>	Not Applicable.
12.4	<i>Short and Long Term Effects on:</i> <ul style="list-style-type: none"> <li>- Ecotoxicity               <ul style="list-style-type: none"> <li>- aquatic organisms</li> <li>- soil organisms</li> <li>- plants and terrestrial animals</li> </ul> </li> <li>- <i>Other Adverse Effects</i> <ul style="list-style-type: none"> <li>- ozone depletion potential</li> <li>- photochemical ozone creation potential</li> <li>- effects on waste water treatment plants</li> </ul> </li> </ul>	Not Applicable.

## 13. DISPOSAL CONSIDERATIONS

13.1	Safe Handling	Consult with local regulatory bodies to metallic solid waste disposal
13.2	Methods of Disposal	

## 14. TRANSPORT INFORMATION

14.1	UN Number:	Harmonized Tariff Code:
14.2	Road & Sea Freight Classification	#7413,00.1000
14.3	Substance Classification Number:	Copper wire coated with resin flux
14.4	Class:	
14.5	Packing Group:	Validated license #/General license symbol
14.6	Proper Shipping Name:	"NLR"
14.7	ADR/RID CLASSIFICATION:	
14.8	ICAO/IATA CLASSIFICATION:	

	Class: Sub-Risk: Packing Group: Proper Shipping Name:	
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**15. REGULATORY INFORMATION**

15.1	Precautionary Label Information:	<b>WARNING:</b> This product contains or produces a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.
15.2	Symbols:	Classification as designated in Section 3.
15.3	Risk Phrases:	Risk Phrases: R36/37/38
15.4	Safety Phrases:	Safety Phrases: S14 (per section5), S22/39, S43 (per section 5)

**16. OTHER INFORMATION:**

16.1	Regulatory Information:	
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