



1801 Morgan Street  
 Rockford, IL 61102  
 Phone: (815) 968-9661  
 Fax: (815) 968-9731  
 www.gcelectronics.com

SDS Number: 271  
 Revision Date: 09/30/2015  
 Supersedes Date: 08/26/2013

## SAFETY DATA SHEET


Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

**Product Name: GC BRAID**

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Type: Desoldering Braid Product Name: <b>GC BRAID</b> Part Number(s): <b>12-5001      12-5075      12-6025      12-6100</b> <b>12-5001-BU    12-5075-BU    12-6025-BU    12-6100-BU</b> <b>12-5025      12-5100      12-6050      12-6125</b> <b>12-5025-BU    12-5100-BU    12-6050-BU    12-6125-BU</b> <b>12-5050      12-5125      12-6075</b> <b>12-5050-BU    12-5125-BU    12-6075-BU</b>	<b>Emergency Contact: Chemtrec</b> <b>Phone: (800) 424-9300</b>
--	--

### SECTION 2: HAZARDS IDENTIFICATION

2.1	Critical Hazards:	HMIS Hazard Rating: 0 = insignificant 1 = slight 2 = moderate 3 = high 4 = extreme  Health = 1 Flammability = 0 Reactivity = 0 Rosin flux may cause an allergic reaction, resulting in a skin rash. Clean hands after use.
2.2	Critical Hazards to Man & Environment:  Adverse Human Health Effects and Symptoms:	
2.4	Single Word	Warning
2.5	Pictogram	
2.6	Hazard Statements	May cause allergic skin reaction



1801 Morgan Street  
 Rockford, IL 61102  
 Phone: (815) 968-9661  
 Fax: (815) 968-9731  
 www.gcelectronics.com

SDS Number: 271  
 Revision Date: 09/30/2015  
 Supersedes Date: 08/26/2013

## SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

**Product Name: GC BRAID**

### SECTION 2: HAZARDS IDENTIFICATION (CONTINUED)

2.7	Precautionary Statement	<p><b>Prevention:</b>          Avoid breathing/dust/fume/gas/mist/vapours/spray          Contaminated work clothing should not be allowed out of the workplace          Wear protective gloves</p> <p><b>Response:</b>          IF ON SKIN: Wash with plenty of water          If skin irritation or rash occurs: Get medical advice/attention          Take off contaminated clothing and wash it before reuse          Review section 4 for additional response</p> <p><b>Disposal:</b>          Dispose of contents/container in accordance with local regulations</p>
-----	-------------------------	---

### SECTION 3: COMPOSITION / IDENTIFICATION ON INGREDIENTS

CAS NUMBER	INGREDIENTS	%	SYMBOLS	RISK PHASE
7440-50-8	Pure Copper Metal	99.9		
8050-09-7	Modified Rosin	.1%		

3.1	Substances presenting a health hazard:	The 0.1% Rosin may cause allergic reactions: does not contain hazardous ingredients.						
3.2	Exposure Limit Values:	<table style="margin-left: 20px;"> <tr> <td>Copper -</td> <td style="text-align: center;">ACGIH TLV</td> </tr> <tr> <td>-fume</td> <td style="text-align: center;">0.1mg/m3</td> </tr> <tr> <td>-dust</td> <td style="text-align: center;">1.0mg/m3</td> </tr> </table>	Copper -	ACGIH TLV	-fume	0.1mg/m3	-dust	1.0mg/m3
Copper -	ACGIH TLV							
-fume	0.1mg/m3							
-dust	1.0mg/m3							
3.3	Is substance is confidential - indicate chemical nature to ensure safe handling							



1801 Morgan Street  
 Rockford, IL 61102  
 Phone: (815) 968-9661  
 Fax: (815) 968-9731  
 www.gcelectronics.com

SDS Number: 271  
 Revision Date: 09/30/2015  
 Supersedes Date: 08/26/2013

## SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

**Product Name: GC BRAID**

### SECTION 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: -Professional Attention Needed: <u>Inhalation:</u> -First Aid: -Symptoms: -Effects: -Delayed Effects: -Professional Attention Needed: <u>Ingestion:</u> -First Aid: -Symptoms: -Effects: -Delayed Effects: -Professional Attention Needed:	Flush skin with copious amounts of water.  Rash.  Remove metal fragments and flush eyes with water.  Remove to fresh air. If breathing has stopped, administer CPR. Induce vomiting.  Wire strands could cause internal digestive tract bleeding. Induce vomiting.
-----	---	--

### SECTION 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 C <sub>2</sub> H <sub>2</sub> , NH <sub>4</sub> N <sub>3</sub> , Bromates, Chlorates, Iodates, C <sub>1</sub> F <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> , Na <sub>3</sub> , Na <sub>2</sub> O <sub>2</sub> , CUN <sub>3</sub> , S.
5.4	Combustion Products: -Resulting Gases:	Carbon Monoxide, Aliphatic Aldehydes, and Acids
5.5	Protective Equipment For Firefighters:	Not Needed



1801 Morgan Street  
 Rockford, IL 61102  
 Phone: (815) 968-9661  
 Fax: (815) 968-9731  
 www.gcelectronics.com

SDS Number: 271  
 Revision Date: 09/30/2015  
 Supersedes Date: 08/26/2013

## SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

**Product Name: GC BRAID**

### SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	<u>Personal Precautions:</u> -Ignition sources? -Provision for sufficient ventilation? -Control of dust? -Prevention of skin contact? -Prevention of eye contact? <u>Environmental Precautions:</u>	When subjected to temperatures over 180 <sup>0</sup> F, flux fumes should be vented. See Section 8.1. Vacuum or sweep up and dispose of as a non-cumbustable metal. Gloves not normally required. When clipping short lengths, protective eyewear is recommended.
6.2	Methods for Cleaning Up: Materials not to be Used for Cleaning Up:	
6.3 6.4		Vacuum or sweep up and dispose of as a noncombustible solid. See above. See section 5, of this document.

### SECTION 7: HANDLING AND STORAGE

7.1	Handling -General Rules -Technical Precautions for Safe Handling -Measures necessary to prevent airborne levels of chemical being generated as a result of handling. Recommended Storage Conditions	Store in cool, dry environment for functional purposes. None required.  If product is exposed to temperatures are above 180 °F, use local ventilation.
7.2	-List incompatible materials -Quantity Limits for storage -Special Requirements for proper storage of chemical	

See sections 5 & 2 of this document.

### SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1	System Design (e.g. Fume Hoods, Ventilated)	General mechanical or local hood. Ventilation is recommended for applications where the product will exceed 180 <sup>0</sup> F.
8.2 8.3 8.4 8.5	Cabinets, Enclosure) Control Parameters -Limit values or biological standards: Recommended Monitoring Procedures: Personal Protection -Respiratory Protection: -Hand Protection: -Eye Protection: -Skin Protection:  CEN standards	See Section 5, of this document. Use local or general ventilation away from the operator if the product temperature is exposed to 180 <sup>0</sup> F+. Gloves may be used if resin is a skin irritant. Eye protection should be worn when clipping short lengths. See hand protection.  Carcinogens < 0.1%



1801 Morgan Street  
 Rockford, IL 61102  
 Phone: (815) 968-9661  
 Fax: (815) 968-9731  
 www.gcelectronics.com

SDS Number: 271  
 Revision Date: 09/30/2015  
 Supersedes Date: 08/26/2013

## SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

**Product Name: GC BRAID**

### SECTION 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
9.10	Oxidizing Properties:	Copper can oxidize if prolonged exposure in moist conditions.
9.11	Vapor Pressure:	N/A
9.12	Relative Density:	N/A
9.13	Solubility:	
	-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

### SECTION 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 and 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.



1801 Morgan Street  
 Rockford, IL 61102  
 Phone: (815) 968-9661  
 Fax: (815) 968-9731  
 www.gcelectronics.com

SDS Number: 271  
 Revision Date: 09/30/2015  
 Supersedes Date: 08/26/2013

## SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

**Product Name: GC BRAID**

### SECTION 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: -Delayed Effects: -Chronic Effects: -Special Health Effects:	
11.3	Inhalation: -Symptoms:	
11.4	Ingestion: -Symptoms: -Immediate Effects: -Delayed Effects: -Chronic Effects: -Special Health Effects:	If product is exposed to temperatures in excess of 180 <sup>0</sup> F, local ventilation must be used.
		May be moderately irritating to stomach lining. Induce vomiting if conscious.

### SECTION 12: ECOLOGICAL INFORMATION

12.1	Mobility -distribution to environmental compartments -surface tension -absorption / desorption -physical & chemical properties	Not applicable.
12.2	Degradability -biotic and abiotic degradation -aerobic and anaerobic degradation -persistence	Not applicable.
	Accumulation -bioaccumulation potential -biomagnification	Not applicable.



1801 Morgan Street  
 Rockford, IL 61102  
 Phone: (815) 968-9661  
 Fax: (815) 968-9731  
 www.gcelectronics.com

SDS Number: 271  
 Revision Date: 09/30/2015  
 Supersedes Date: 08/26/2013

## SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

**Product Name: GC BRAID**

### SECTION 12: ECOLOGICAL INFORMATION (CONTINUED)

12.3	Short and Long Term Effects on: <i>-Ecotoxicity</i> -aquatic organisms -soil organisms -plants and terrestrial animals	Not applicable.
12.4	<i>-Other Adverse Effects</i> -ozone depletion potential -photochemical ozone creation potential -effects on waste water treatment plants	

### SECTION 13: DISPOSAL CONSIDERATIONS

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

### SECTION 14: TRANSPORT INFORMATION

14.1	UN Number:	Harmonized Tariff Code: #7413.00.1000
14.2	Road & Sea Freight Classification:	Copper wire coated with resin flux
14.3	Substance Classification Number:	
14.4	Class:	
14.5	Packing Group:	
14.6	Proper Shipping Name: PGR (if applicable)	Validated license # / General license symbol: "NLR"
14.7	ADR/RID CLASSIFICATION: Class: Item Number:	
14.8	ICAO/IATA CLASSIFICATION: Class: Sub-Risk: Packing Group: Proper Shipping Name:	



1801 Morgan Street  
Rockford, IL 61102  
Phone: (815) 968-9661  
Fax: (815) 968-9731  
www.gcelectronics.com

SDS Number: 271  
Revision Date: 09/30/2015  
Supersedes Date: 08/26/2013

## SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

**Product Name: GC BRAID**

### SECTION 15: REGULATORY INFORMATION

15.1	Precautionary Label Information:	This product does not require warning labels due to Hazards
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 section 5), S22/39, S43 (per section 5)

### SECTION 16: OTHER INFORMATION

16.1	Regulatory Information:	
------	-------------------------	--

### SECTION 17: DISCLAIMER

GC Electronics believes that the information contained herein is accurate and reliable as of the date of this material safety data sheet, but no representation guarantee or warranty, express or implied, is made as to the accuracy, reliability or completeness of the information. Persons receiving information are encouraged to make their own determination as to the information's suitability and completeness for their particular application. NO INFORMATION CONTAINED HEREIN CONSTITUTES A PRODUCT WARRANTY OF ANY KIND, WHETHER EXPRESS OR IMPLIED; AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED BY GC ELECTRONICS.