

# Material Safety Data Sheet Sea Braid

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

1.1	Identification of substance (as per label): Other means of Identification:	Sea Braid Desoldering Braid
1.2	Company Name: Easy Braid Co. Contact Name: James Strempeke Full Address: 11543 K-tel Drive Minneapolis, MN 55343 Telephone Number: 952-929-3040 Fax Number: 952-929-2765 Emergency Number:	Part Numbers: S-A-5, S-A-5AS, S-A-10, S-A-10AS, S-A-25, S-A-50, S-A-100, S-A-500, S-B-5, S-B-5AS, S-B-10, S-B-10AS, S-B-25, S-B-50, S-B-100, S-B-500, S-C-5, S-C-5AS, S-C-10, S-C-10AS, S-C-25, S-C-50, S-C-100, S-C-500, S-D-5, S-D-5AS, S-D-10, S-D-10AS, S-D-25, S-D-50, S-D-100, S-D-500, S-E-5, S-E-5AS, S-E-10, S-E-10AS, S-E-25, S-E-50, S-E-100, S-E-500

## 2. COMPOSITION / IDENTIFICATION OF INGREDIENTS

CAS NUMBER	INGREDIENTS	%	SYMBOLS	RISK PHASE
7440-50-8	Pure Copper Metal	99.9		
7732-18-5	Surfactants	<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 - <span style="float: right;">ACGIH TLV</span>
2.3	Is substance is confidential - indicate chemical nature to ensure safe handling	-fume <span style="float: right;">0.1mg/m3</span> -dust <span style="float: right;">1.0mg/m3</span>

## 3. HAZARDS 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.

## 4. FIRST AID MEASURE

4.1	<p><b>Skin Contact:</b> -First Aid: -Symptoms: -Effects: -Delayed Effects: -Medical Attention Needed:</p> <p><b>Eye Contact:</b> -First Aid: -Symptoms: -Effects: -Delayed Effects: -Professional Attention Needed:</p> <p><b>Inhalation:</b> -First Aid: -Symptoms: -Effects: -Delayed Effects: -Professional Attention Needed:</p> <p><b>Ingestion:</b> -First Aid: -Symptoms: -Effects: -Delayed Effects: -Professional Attention Needed:</p>	<p>Flush skin with copious amounts of water.</p> <p>Rash.</p> <p>Remove metal fragments and flush eyes with water.</p> <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 C <sub>2</sub> H <sub>2</sub> , NH <sub>4</sub> N <sub>3</sub> , Bromates, Chlorates, Iodates, C <sub>12</sub> , 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> , NaN <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

**6. ACCIDENTAL RELEASE MEASURES**

6.1	Personal Precautions: -Ignition sources? -Provision for sufficient ventilation? -Control of dust? -Prevention of skin contact? -Prevention of eye contact?	When subjected to temperatures over 180° 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	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 -General Rules -Technical Precautions for Safe Handling -Measures necessary to prevent airborne levels of chemical being generated as a result of handling.	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	Recommended Storage Conditions -List incompatible materials -Quantity Limits for storage -Special Requirements for proper storage of chemical	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 -Limit values or biological standards:	
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
9.10	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
9.14	Partition coefficient, n-octanol/water:	
9.15	Other Data:	
	-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 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.

## 11. TOXICOLOGICAL INFORMATION

11.1	Skin Exposure:	
	-Symptoms:	
	-Immediate Effects:	Possible allergic rash reaction. See Section 4, this document.
	-Delayed Effects:	
	-Chronic Effects:	
	-Special Health Effects:	
11.2	Eye Contact:	
	-Symptoms:	
	-Immediate Effects:	Possible danger of metal fragments. See Section 4, this document.
	-Delayed Effects:	
	-Chronic Effects:	
	-Special Health Effects:	
11.3	Inhalation:	
	-Symptoms:	
	-Immediate Effects:	
	-Delayed Effects:	If product is exposed to temperatures in excess of 180° F, local ventilation must be used.
	-Chronic Effects:	
	-Special Health Effects:	
11.4	Ingestion:	
	-Symptoms:	
	-Immediate Effects:	May be moderately irritating to stomach lining. Induce vomiting if conscious.
	-Delayed Effects:	
	-Chronic Effects:	
	-Special Health Effects:	

**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.
12.3	Accumulation -bioaccumulation potential -biomagnification	Not applicable.
12.4	Short and Long Term Effects on: - <i>Ecotoxicity</i> -aquatic organisms -soil organisms -plants and terrestrial animals - <i>Other Adverse Effects</i> -ozone depletion potential -photochemical ozone creation potential -effects on waste water treatment plants	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: #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:	Validated license # / General license symbol: "NLR"
14.6	Proper Shipping Name: PGR (if applicable)	
14.7	ADR/RID CLASSIFICATION: Class: Item Number:	
14.8	ICAO/IATA CLASSIFICATION: Class: Sub-Risk: Packing Group: Proper Shipping Name:	

**15. REGULATORY INFORMATION**

15.1	Precautionary Label Information:	This product does not require warning labels due to Hazards Classification as designated in Section 3. Risk Phrases: R36/37/38 Safety Phrases: S14 (per section 5), S22/39, S43 (per section 5)
15.2	Symbols:	
15.3	Risk Phrases:	
15.4	Safety Phrases:	

**16. OTHER INFORMATION**

16.1	Regulatory Information:	
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