Material Safety Data Sheet One Step (No Clean)

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

1.1 Identification of substance (as per label):
One Step Desoldering Braid.

Other means of Identification:

1.2 Company Name: Easy Braid Co.
Contact Name: Jim Strempke
Full Address: 11543 K-tel Drive
Minneapolis, MN 55343 USA
Telephone Number: 952-929-3040
Fax Number: 952-929-2765
Emergency Number:

OS-A-50, OS-A-100, OS-A-500, OS-B-5, OS-B-5AS, OS-B-10, OS-B-
10AS, OS-B-25, OS-B-50, OS-B-100, OS-B-500, OS-C-5, OS-C-5AS,
OS-C-10, OS-C-10AS, OS-C-25, OS-C-50, OS-C-100, OS-C-500, OS-
D-5, OS-D-5AS, OS-D-10, OS-D-10AS, OS-D-25, OS-D-50, OS-D-100,
OS-D-100AS, OS-D-500, OS-E-5, OS-E-5AS, OS-E-10, OS-E-10AS,
OS-E-25, OS-E-50, OS-E-100, OS-E-100AS, OS-E-500

2. COMPOSITION / IDENTIFICATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS NUMBER</th>
<th>INGREDIENTS</th>
<th>%</th>
<th>SYMBOLS</th>
<th>RISK PHASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>7440-50-8</td>
<td>Pure Copper Metal</td>
<td>99.9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8050-09-7</td>
<td>Modified Rosin</td>
<td>0.1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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:
- fume: ACGIH TLV 0.1mg/m3
- dust: 1.0mg/m3

2.3 Is substance is confidential - indicate chemical nature to ensure safe handling:
Rosin flux may cause an allergic reaction, resulting in a skin rash. Clean hands after use.

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:
Health = 1
Flammability = 0
Reactivity = 0

Adverse Human Health Effects and Symptoms:
Rosin flux may cause an allergic reaction, resulting in a skin rash. Clean hands after use.

4. FIRST AID MEASURE

4.1 Skin Contact:
- First Aid: Flush skin with copious amounts of water.
- Symptoms: Rash.
- Effects: 
- Delayed Effects: 
- Medical Attention Needed: 

Eye Contact:
- First Aid: Remove metal fragments and flush eyes with water.
- Symptoms: 
- Effects: 
- Delayed Effects: 
- Professional Attention Needed: 

Inhalation:
- First Aid: Remove to fresh air. If breathing has stopped, administer CPR.
- Symptoms: 
- Effects: 
- Delayed Effects: 
- Professional Attention Needed: 

Ingestion:
- First Aid: Induce vomiting.
- Symptoms: 
- Effects: 
- Delayed Effects: 
- Professional Attention Needed: 

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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 C2H2, NH4N03, Bromates, Chlorates, Iodates, C12, CF2, Ethylene Oxide, F2, H202, Hydrazine mononitrate, Hydrazone acid, H2S, K202, NaN3, Na202, CUN03, S.
5.4 Combustion Products: Carbon Monoxide, Aliphatic Aldehydes, and Acids
5.5 Protective Equipment For Firefighters: Not Needed

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions:
- When subjected to temperatures over 180°F, flux fumes should be vented. See Section 8.1.
- Gloves not normally required. When clipping short lengths, protective eyewear is recommended.
- Provision for sufficient ventilation?
- Control of dust?
- Prevention of skin contact?
- Prevention of eye contact?
6.2 Environmental Precautions:
6.3 Methods for Cleaning Up:
- Vacuum or sweep up and dispose of as a non-combustible solid.
- 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.
7.2 Recommended Storage Conditions
- List incompatible materials
- Quantity Limits for storage
- Special Requirements for proper storage of chemical
- Store in cool, dry environment for functional purposes.
- None required.
- If product is exposed to temperatures are above 180°F, use local ventilation.
- 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:
- See Section 5, of this document.
8.3 Recommended Monitoring Procedures:
8.4 Personal Protection
- Respiratory Protection:
- Use local or general ventilation away from the operator if the product temperature is exposed to 180°F.
- Hand Protection:
- Gloves may be used if resin is a skin irritant.
- Eye Protection:
- Eye protection should be worn when clipping short lengths.
- Skin Protection:
- See hand protection.
- CEN standards
- Carcinogens < 0.1%
### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>9.1 Appearance:</th>
<th>Copper metallic braid with fine crystalline resin layer.</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.2 Odor:</td>
<td>None.</td>
</tr>
<tr>
<td>9.3 pH:</td>
<td>N/A</td>
</tr>
<tr>
<td>9.4 Boiling Point:</td>
<td>1981 degrees F</td>
</tr>
<tr>
<td>9.5 Melting Point:</td>
<td>1949 degrees F</td>
</tr>
<tr>
<td>9.6 Flash Point:</td>
<td>None</td>
</tr>
<tr>
<td>9.7 Flammability (solid gas):</td>
<td>None</td>
</tr>
<tr>
<td>9.8 Autoflammability:</td>
<td>None</td>
</tr>
<tr>
<td>9.9 Explosive Properties:</td>
<td>None</td>
</tr>
<tr>
<td>9.10 Oxidizing Properties:</td>
<td>Copper can oxidize if prolonged exposure in moist conditions.</td>
</tr>
<tr>
<td>9.11 Vapor Pressure:</td>
<td>N/A</td>
</tr>
<tr>
<td>9.12 Relative Density:</td>
<td>N/A</td>
</tr>
<tr>
<td>9.13 Solubility:</td>
<td>- Water Solubility: Negligible</td>
</tr>
<tr>
<td></td>
<td>- Fat Solubility: Unknown</td>
</tr>
<tr>
<td>9.14 Partition coefficient, n-octanol/water:</td>
<td>A solid</td>
</tr>
<tr>
<td>9.15 Other Data:</td>
<td>- Safety Parameters: N/A</td>
</tr>
<tr>
<td></td>
<td>- Vapor Density: N/A</td>
</tr>
<tr>
<td></td>
<td>- Miscibility: N/A</td>
</tr>
<tr>
<td></td>
<td>- Evaporation rate: N/A</td>
</tr>
<tr>
<td></td>
<td>- Conductivity: Copper is very conductive.</td>
</tr>
<tr>
<td></td>
<td>- Viscosity: N/A</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

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

### 11. TOXICOLOGICAL INFORMATION

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

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## 12. ECOLOGICAL INFORMATION

12.1 Mobility
- distribution to environmental compartments
  - surface tension
  - absorption / desorption
  - physical & chemical properties

12.2 Degradability
- biotic and abiotic degradation
- aerobic and anaerobic degradation
- persistence

12.3 Accumulation
- bioaccumulation potential
- biomagnification

12.4 Short and Long Term Effects on:
- Ecotoxicity
  - aquatic organisms
  - soil organisms
  - plants and terrestrial animals
- Other Adverse Effects
  - 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
Not applicable.

## 14. TRANSPORT INFORMATION

14.1 UN Number: Harmonized Tariff Code:

14.2 Road & Sea Freight Classification:
Copper wire coated with resin flux

14.3 Substance Classification Number:

14.4 Class: PGR (if applicable)

14.5 Packing Group:

14.6 Proper Shipping Name:
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:

## 15. REGULATORY INFORMATION

15.1 Precautionary Label Information: This product does not require warning labels due to Hazards Classification as designated in Section 3.

15.2 Symbols:
Risk Phrases: R36/37/38

15.3 Risk Phrases: Safety Phrases: S14 (per section 5), S22/39, S43 (per section 5)

## 16. OTHER INFORMATION

16.1 Regulatory Information: