# **Material Safety Data Sheet**



Techspray ProWick Desoldering Flux coated braid

#### 1. Product and company identification

Product name	: Techspray ProWick Desoldering Flux coated braid
Supplier	: Techspray 8125 Cobb Center Drive Kennesaw, GA 30152 Tel: 800-858-4043 1 703-527-3887
Synonym	: Sizes: 0.9mm/1.4mm/1.9mm/2.5mm/3.3mm/4.9mm/0.9mm/1.4mm/1.9mm/2.5mm/3. 3mm/4.9mm/0.63mm/4.9mm Prowick line is a natural gum rosin. Per J-STD-004 Section 3.2, the Prowick is classified as ROL0. Per British Std. EN 29454-1:1993 and ISO9454-1:1990, Prowick has a classification of 1.1.1.B.
Trade name	: Pro Wick® Desoldering Braid
Material uses	: Industrial applications: Fine braided copper wire with rosin flux Special: Solder remover
Manufacturer	: Techspray 8125 Cobb Center Drive Kennesaw, GA 30152 Tel: 800-858-4043 1 703-527-3887
Code	: 1801/1802/1803/1804/1805/1806/1808/1809/1810/ 1811/1812/1813/1826/1828
MSDS #	: 1801/1802/1803/1804/1805/1806/1808/1809/1810/ 1811/1812/1813/1826/1828
Validation date	: 5/14/2015.
Print date	: 5/14/2015.
In case of emergency	: Chemtrec - 1-800-858-4043 CANTUC (Canadian Transportation): (613) 996-6666 Emergency phone: (800) 858-4043

Product type

: Solid.

#### 2. Hazards identification

Emergency overview		
Physical state	olid. [Metal.]	
Color	arious	
Odor	odorless.	
Signal word		
Hazard statements	ONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.	
Precautionary measures	o not eat, drink or smoke when using this product. Wash thoroughly after ha	andling.
Routes of entry	lot available.	
Potential acute health effec		
Inhalation	oldering FUMES MAY BE HARMFUL	
Ingestion	o not ingest. If swallowed then seek immediate medical assistance.	
Skin	lay cause skin irritation.	
Eyes	lay cause eye irritation.	
Potential chronic health eff		
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#### 2. Hazards identification

Chronic effects	: Contains material that can cause target organ damage.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.
Target organs	<ul> <li>Contains material which causes damage to the following organs: eye, lens or cornea. Contains material which may cause damage to the following organs: kidneys, lungs, liver, gastrointestinal tract, upper respiratory tract, skin.</li> </ul>

Over-exposure signs/s	<u>ymptoms</u>
Inhalation	: No specific data.
Ingestion	: Adverse symptoms may include the following: stomach pains nausea or vomiting
Skin	: Adverse symptoms may include the following: irritation redness
Eyes	: Adverse symptoms may include the following: irritation
Medical conditions aggravated by over- exposure	: Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (Section 11)

#### 3. Composition/information on ingredients

Name	CAS number	%
copper	7440-50-8	90 - 100

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measu	ures				
Eye contact : Check for and remove any contact lenses. Immediately flush eyes with for at least 15 minutes, occasionally lifting the upper and lower eyelids. attention immediately.					
Skin contact	n case of contact, immediately flush skin with plenty of water for at least 15 minutes /hile removing contaminated clothing and shoes. Wash clothing before reuse. Clean hoes thoroughly before reuse. Get medical attention immediately.				
Inhalation	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention mmediately.				
Ingestion	: Wash out mouth with water. Do not induce vomiting unless directed to do so by medica personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.				
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.				
Notes to physician	<ul> <li>No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>				
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#### 5. Fire-fighting measures

Flammability of the product	: No specific fire or explosion hazard.
Extinguishing media	
Suitable	: Use an extinguishing agent suitable for the surrounding fire.
Not suitable	: None known.
Special exposure hazards	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	<ul> <li>Decomposition products may include the following materials: metal oxide/oxides</li> </ul>
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Special remarks on fire hazards	: Not available.
Special remarks on explosion hazards	: Not available.

## 6. Accidental release measures

Personal precautions	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
Methods for cleaning up	
Small spill	: Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### 7. Handling and storage

Handling	: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Storage	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
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#### 8. Exposure controls/personal protection

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/ m³	Other	ppm	mg/ m³	Other	ppm	mg/ m³	Other	Notations
copper, as Cu	US ACGIH 4/2014	-	1 0.2	-	-	-	-	-	-	-	[a][A]
	AB 4/2009	-	1	-	-	-	-	-	-	-	[b] [c][B]
	BC 7/2013	-	0.2 1	-	-	-	-	-	-	-	[b][B] [d][B]
copper	ON 1/2013	-	0.2 0.2	-	-	-	-	-	-	-	[b][B]
copper, as Cu	ON 1/2013 QC 1/2014	-	1	-	-	-	-	-	-	-	[b] [e] [f][B]
	QC 1/2014 QC 1/2014	-	0.2	-	-	-	-	-	-	-	[][B] [g][B]

Form: [a]Dust and mist [b]Fume [c]Dusts and Mists [d]Dusts and mists [e]dust and mists [f]dusts & mists [g]fume Notes: [A]as Cu [B]As Cu

#### Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	<ul> <li>If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.</li> </ul>
Engineering measures	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal protection	
Respiratory	: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Hands	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Eyes	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin	<ul> <li>Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Other protection	: Not available.
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#### 8. Exposure controls/personal protection

Personal protective equipment (Pictograms) : Not available.

#### 9. Physical and chemical properties

Physical state	: Solid. [Metal.]	
Flash point	: Not available.	
Burning time	: Not available.	
Burning rate	: Not available.	
Auto-ignition temperature	: Not available.	
Flammable limits	: Not available.	
Color	: Various	
Odor	: Odorless.	
Taste	: Not available.	
Molecular weight	: Not applicable.	
Molecular formula	: Not applicable.	
рН	: Not available.	
<b>Boiling/condensation point</b>	: Not available.	
Melting/freezing point	: Not available.	
Critical temperature	: Not available.	
Relative density	: Not available.	
Vapor pressure	: Not available.	
Vapor density	: Not available.	
Volatility	: Not available.	
Odor threshold	: Not available.	
Evaporation rate	: Not available.	
SADT	: Not available.	
Viscosity	: Not available.	
lonicity (in water)	: Not available.	
Dispersibility properties	: Not available.	
Solubility	: Not available.	
Physical/chemical properties comments	: Not available.	

#### 10. Stability and reactivity

Chemical stability	: The product is stable.
Conditions to avoid	: Elevated temperature
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.

#### 11. Toxicological information

Acute toxicity Not available.	
Conclusion/Summary Chronic toxicity Not available.	: Not available.
Conclusion/Summary Irritation/Corrosion Not available.	: Not available.
Conclusion/Summary Sensitizer Not available.	: Not available.
Conclusion/Summary Carcinogenicity Not available.	: Not available.
Conclusion/Summary Classification Not available.	: Not available.
Mutagenicity Not available.	
Conclusion/Summary Teratogenicity Not available.	: Not available.
Conclusion/Summary Reproductive toxicity Not available.	: Not available.
Conclusion/Summary Synergistic products	<ul><li>Not available.</li><li>Not available.</li></ul>

## 12. Ecological information

**Ecotoxicity** 

: Water polluting material. May be harmful to the environment if released in large quantities.

#### Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure	
copper	Acute EC50 1100 µg/l Fresh water	Aquatic plants - Lemna minor	4 days	
	Acute EC50 2.1 µg/l Fresh water	Daphnia - Daphnia longispina -	48 hours	
		Juvenile (Fledgling, Hatchling,		
		Weanling)		
	Acute IC50 13 µg/l Fresh water	Algae - Pseudokirchneriella	72 hours	
		subcapitata - Exponential growth		
		phase		
	Acute IC50 5.4 mg/l Marine water	Aquatic plants - Plantae -	72 hours	
		Exponential growth phase		
	Acute LC50 0.072 µg/l Marine water	Crustaceans - Amphipoda - Adult	48 hours	
	Acute LC50 7.56 µg/l Marine water	Fish - Periophthalmus waltoni -	96 hours	
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Techspray ProWick Desoldering Flux coated braid

12. Ecological info	ormation		
	Chronic NOEC 2.5 µg/l Marine water	Adult Algae - Nitzschia closterium - Exponential growth phase	72 hours
	Chronic NOEC 7 mg/l Fresh water	Aquatic plants - Ceratophyllum demersum	3 days
	Chronic NOEC 0.02 mg/l Fresh water	Crustaceans - Cambarus bartonii - Mature	21 days
	Chronic NOEC 2 µg/l Fresh water Chronic NOEC 0.8 µg/l Fresh water	Daphnia - Daphnia magna Fish - Oreochromis niloticus - Juvenile (Fledgling, Hatchling, Weanling)	21 days 6 weeks
Conclusion/Summary	: Not available.		
Persistence/degradability Not available.			
<b>Conclusion/Summary</b>	: Not available.		
Partition coefficient: n- octanol/water	: Not available.		
Bioconcentration factor	: Not available.		
Mobility	: Not available.		
Toxicity of the products of biodegradation	: Not available.		
Other adverse effects	: No known significant effects or critical hazards.		

#### 13. Disposal considerations

Waste disposal	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.		
Waste stream	: Not available.		
RCRA classification	: Not available.		
Disposal should be in accordance with applicable regional, national and local laws and regulations.			

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

### 14. Transport information

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### 14 Transport information

14. Transport mormation						
Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	Wire	-	-		Reportable quantity 5263.2 lbs / 2389.5 kg Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
TDG Classification	Not regulated.	Wire	-	-		-
Mexico Classification	Not regulated.	Wire	-	-		-
ADR/RID Class	Not regulated.	Wire	-	-		Not regulated.
IMDG Class	Not regulated.	Wire	-	-		Not regulated.
IATA-DGR Class	Not regulated.	Wire	-	-		Not regulated.

PG\* : Packing group

## 15. Regulatory information

United States inventory (TSCA 8b)	: All components are listed or exempted.		
WHMIS (Canada)	: Not controlled under WHMIS (Canada).		
<u>Canadian lists</u>			
Canadian NPRI	: The following components are listed: Copper (and its compounds)		
CEPA Toxic substances	: None of the components are listed.		
Canada inventory	: All components are listed or exempted.		
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.			

International regulations		
International lists	<ul> <li>Australia inventory (AICS): All components are listed or exempted.</li> <li>China inventory (IECSC): All components are listed or exempted.</li> <li>Japan inventory: Not determined.</li> <li>Korea inventory: All components are listed or exempted.</li> <li>Malaysia Inventory (EHS Register): All components are listed or exempted.</li> <li>New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.</li> <li>Philippines inventory (PICCS): All components are listed or exempted.</li> <li>Taiwan inventory (CSNN): Not determined.</li> </ul>	ed.
Chemical Weapons Convention List Schedule I Chemicals	: Not listed	
Chemical Weapons Convention List Schedule Il Chemicals	: Not listed	
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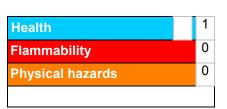
#### 15. Regulatory information

Chemical Weapons Convention List Schedule III Chemicals : Not listed

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#### 16. Other information

Label requirements Hazardous Material Information System (U.S.A.) : CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

References	: Not available.
Other special considerations	: Not available.
Date of printing	: 5/14/2015.
Date of issue	: 5/14/2015.
Date of previous issue	: 8/29/2014.
Version	: 2
Prepared by	: Not available.

✓ Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.