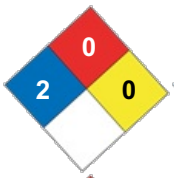
View Section : 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION M/L 1131

Product Name:	**Copper Phosphorus (5% Silver) Brazing Rod**
Synonyms:	COMMON NAME OR SYNONYMS: Includes trade name products: Taramet™ Brazing Rods
CAS Number:	CHEMICAL MIXTURE
Chemical Formula:	Ag-Cu-P
Manufacturer MSDS.:	M/L 1131
Distributor Name:	Taracorp
Distributor Address:	1690 Lowery Street, Winston-Salem, NC 27101
Distributor Telephone:	(336) 777-8600
Revision Date:	11/24/04 Supersedes: October 2004 Rev: 003
Manufacturer Name:	Taracorp
General Use:	PRODUCT USE: Welding/Brazing
Comments:	*Indicates the possibility of chronic health effects. See Chronic Health Effects Hazards in Section 3 for more information. NFPA/HMIS HAZARD CODES: SPECIAL: Not Applicable 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe COMMON NAME: Silver-Copper-Phosphorus Brazing Alloy CHEMICAL NAME: Silver-Copper-Phosphorus Brazing Alloy This Material Safety Data Sheet complies with the U.S. OSHA Hazard Communication Standard 29CFR 1910.1200
Product Codes:	M/L 1131

NFPA



HMIS

HEALTH	2
FIRE	0
REACTIVITY	0
PPE	

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SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS M/L 1131

Ingredient Name	CAS#	Ingredient Percent
Phosphorous EC Index Number: 1	7723-14-0	6% by Weight
Silver EC Index Number: 1	7440-22-4	5% by Weight
Copper EC Index Number: 1	7440-50-8	89% by Weight

Note: The percentage by weight values reported for the ingredients in this product represent approximate formulation values.

Note: See Section 8 for the Exposure Limits and Section 11 for the Toxicological Information.

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SECTION 3 : HAZARDS IDENTIFICATION M/L 1131

Emergency Overview:	Flash Point: Not Applicable. Overexposure may cause kidney and liver damage and blood disorders. May cause skin and eye irritation. May cause severe respiratory tract irritation. Overexposure to freshly formed fumes may cause flu-like illness called "metal fume fever". Harmful if swallowed. Causes gastrointestinal irritation, abdominal pain, nausea, vomiting and diarrhea. Not a fire or explosion hazard in solid form. Finely divided dust may ignite and burn rapidly when mixed with air in the proper proportions. Toxic metal fumes may be released in a fire situation.

Physical State:	Metallic wire, rod or strip.
Odor:	Odorless.

Applies to All Ingredients :

Route of Exposure:	EYES: YES SKIN: YES INHALATION: YES INGESTION: YES
Potential Health Effects:	Eye contact may cause irritation. Skin contact may cause irritation. Inhalation causes irritation of the respiratory tract. Short-term overexposure may cause a flu-like illness called□ metal fume fever□. Typically begins four to twelve hours after sufficient exposure to freshly formed fumes. The first symptoms are a metallic taste, dryness and irritation of the throat. Cough and shortness of breath may occur along with headache, fatigue, nausea, vomiting, muscle and joint pain, fever and chills. The syndrome runs its course in 24-48 hours. Ingestion is harmful. May cause abdominal pain, nausea, vomiting and diarrhea. Copper poisoning can result in hemolytic anemia and kidney, liver and spleen damage. Overexposure to Copper poisoning, resulting in hemolytic anemia and liver, kidney and spleen damage. Prolonged overexposure to Phosphorus can cause gastrointestinal distress, garlic breath, necrosis and deformity of the jaw. Systemic effects such as cardiac, liver and kidney dysfunction may result due to prolonged inhalation of fumes. The absorption of Silver compounds into the circulation and the subsequent deposition of reduced silver in various tissues of the body may result in the production of a generalized grayish pigmentation of the skin and mucous membrane (argyria). There are no systemic effects or symptoms and no physical disability. Once deposited, there is no known means by which this silver can be eliminated; the pigmentation is permanent. NOTE: Health effects only apply if dust or fume is formed.
Carcinogenicity:	Not listed by NTP, IARC or OSHA. Refer to Potential Health Effects.
Aggravation of Pre-Existing Conditions:	May adversely affect existing medical conditions, such as eye, skin, respiratory, blood, liver and/or kidney ailments. Individuals with Wilson□s Disease are at increased risk of Copper poisoning. NOTE: See Section 8 for Exposure Limits, Section 11 for Toxicological Information and Section 12 for Ecological Information.

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SECTION 4 : FIRST AID MEASURES M/L 1131

Eye Contact:	Flush eyes with plenty of water. If irritation develops, call a physician.
Skin Contact:	Flush with plenty of water. If irritation persists, call a physician.
Inhalation:	If exposed to excessive levels of metal fumes, remove to fresh air and seek medical attention.
Ingestion:	Procedures normally are not needed. If large quantities are ingested, seek medical advice.

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SECTION 5 : FIRE FIGHTING MEASURES M/L 1131

Flash Point:	Not Applicable
Upper Flammable or Explosive Limit:	Not Applicable
Lower Flammable or Explosive Limit:	Not Applicable
Auto Ignition Temperature:	Not Applicable
Extinguishing Media:	Use carbon dioxide, chemical foam or dry chemical. Use any means for extinguishing surrounding fire.
Fire Fighting Instructions:	Wear NIOSH/MSHA approved positive-pressure self-contained breathing apparatus and protective clothing gas specified in 29CFR 1910.156.
NFPA	
	Health: 2
	Flammability:0
	Reactivity:0
	Other:
Unusual Fire Hazards:	Not a fire or explosion hazard in solid form. Finely divided dust may ignite and burn rapidly when mixed with air in the proper proportions. Toxic metal fumes may be released in a fire situation. HAZARD CLASSIFICATION: HMIS: HEALTH: 2* FLAMMABLE: 0 REACTIVITY: 0 *Indicates the possibility of chronic health effects. See Chronic Health Effects Hazards in Section 3 for more information.

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SECTION 6 : ACCIDENTAL RELEASE MEASURES M/L 1131

Spill Cleanup Measures:	Contain spillage and scoop up or vacuum. Notification of the National Response Center (800-424-8802) may be required. Refer to EPA, DOT and applicable state and local regulations for current response information. It is recommended that each user establish a spill prevention, control and countermeasure plan (SPCC). Such plan should include procedures applicable to proper storage, control and clean up of spills, including reuse or disposal as appropriate (See Section 13: Disposal

Considerations).
NOTE In the event of an accidental release of this material, the above procedures should be followed. Additionally proper exposure controls and personal protection equipment should be used (see Section 8-Exposure Control/Personal Protection) and disposal of the material should be in accordance with Section 13-Disposal Considerations.

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SECTION 7 : HANDLING and STORAGE M/L 1131

Handling:	Wash thoroughly after handling; Avoid contact with any dusts, mists or fumes resulting from the use of this product. Do not eat, drink or smoke in work area. Use only with adequate ventilation.
Storage:	Store in cool, dry location away from incompatible materials.

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SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION M/L 1131

Ventilation System:	General - local exhaust ventilation as necessary to control any air contaminants it within their PEL's or TLV's during the use this product.
Personal Protective Equipment Routine Handling:	Refer to the ANSI/ASC Z49.1-88 (Safety in Welding and Cutting) published by The American Welding Society for further information of the selection of personal protective equipment. Safety Glasses with side shields.; Gloves; Body protection as necessary to prevent skin contact.
Respiratory Protection:	A NIOSH/MSHA-approved respirator is recommended if dust is generated.
Exposure Limits:	NOTE: As a result of the July 7,1992 decision by the U.S. Circuit Court of Appeals (AFL-CIO v. OSHA) to vacate the 1989 PELs, OSHA will no longer enforce these new limits and will return to the pre-1989 PELs. PERSONNEL SAMPLING PROCEDURE: For Copper (dust & fume): Refer to the NIOSH Manual of Analytical Methods (NMAM), 4th Edition, and Method 7029. For Phosphorus: Refer to the NIOSH Manual of Analytical Methods (NMAM), 4th Edition, and Method 7905. For Metallic Components: Refer to NIOSH Manual of Analytical Methods (NMAM), 4th Edition, and Method 7300.

Ingredient Guidelines

Ingredient: Copper

Guideline Type:	OSHA PEL-TWA
Guideline Information:	0.1 MG.M3 (FUME); 1 MG.M3 (DUST)
Guideline Type:	ACGIH TLV-TWA
Guideline Information:	0.2 MG.M3 (FUME); 1 MG M3 (DUST)

Ingredient: Phosphorous

Guideline Type:	ACGIH TLV-TWA
Guideline Information:	0.1 MG/M3 AS PHOSPHOROUS - YELLOW
Guideline Type:	OSHA PEL-TWA
Guideline Information:	0.1 MG M3 AS PHOSPHOROUS - YELLOW

Ingredient: Silver

Guideline Type:	OSHA PEL-TWA
Guideline Information:	0.1 MG/M3
Guideline Type:	ACGIH TLV-TWA
Guideline Information:	0.1 MG/M3

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SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES M/L 1131

Physical State/Appearance:	Metallic Wire, rod or strip
Odor:	Odorless
pH:	Not Available
Boiling Point:	Not Determined
Melting Point:	636.9 deg C
Solubility:	% SOLUBILITY IN WATER: Insoluble
Specific Gravity:	(H2O = 1): 7.75

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SECTION 10 : STABILITY and REACTIVITY M/L 1131

Chemical Stability:	Generally considered stable
Conditions to Avoid:	None Expected
Incompatibilities with Other Materials:	Strong acids and bases, oxidizing agents, acetylene, magnesium metal, ammonia nitrate, and hydrogen sulfide.
Hazardous Polymerization:	Is not expected to occur. AVOID: Not Applicable
Hazardous Decomposition Products:	Toxic metal oxides are emitted when heated above the melting point. The amount of fume evolved increases as the temperature rises.

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SECTION 11 : TOXICOLOGICAL INFORMATION M/L 1131

Phosphorous :

Acute Health Effects:	WEIGHT %: 6(Not Available)
Inhalation Effects:	LC50: Not Available

Silver :

Acute Health Effects:	WEIGHT %: 5 (Not Available)
Inhalation Effects:	LC50: 5 (Not Available)

Copper :

Acute Health Effects:	WEIGHT %: 89 3.5 (mg/kg MOUSE, intraperitoneal)
Inhalation Effects:	LC50: Not Available
	Note: See Section 3, 8 and 12 for additional information.

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SECTION 12 : ECOLOGICAL INFORMATION M/L 1131

Ecotoxicity:	No Data Available
Environmental Fate:	No Data Available

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SECTION 13 : DISPOSAL CONSIDERATIONS M/L 1131

Waste Disposal:	This product contains Silver or silver compounds and disposal may be regulated under the EPA hazardous waste regulations, waste number D011. Before disposal, this product or mixtures containing this product should be tested for the toxicity characteristics (TC) under the current EPA Waste Regulations TCLP testing procedures, 40 CFR Part 261 et seq. Disposal/recycling/reclamation requirements will vary by location and type of disposal selected. Consult with state and local regulatory authorities. NOTE: Chemical additions, processing or otherwise altering this material may make the waste management information presented above incomplete, inaccurate or otherwise inappropriate. As local regulations may vary, all waste must be disposed/recycled/reclaimed in accordance with federal, state, and local environmental control regulations.
EPA Waste Number:	D011

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SECTION 14 : TRANSPORT INFORMATION M/L 1131

Transportation Information:	INTERNATIONAL: Not Regulated UNITED STATES: Not Regulated EPA WASTE NUMBER: D011
DOT Hazard Class:	Not Regulated
Canadian TDG:	Not Regulated
Canadian Shipping Name:	Not Regulated
Canadian Hazard Class:	Not Regulated
	DGL: Not Determined

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SECTION 15 : REGULATORY INFORMATION M/L 1131

Applies to All Ingredients :

TSCA 8(b): Inventory Status:	Listed in TSCA
Section 312 Hazard Category:	SARA 311 AND 312 HAZARD CATEGORIES:
Acute:	Yes
Chronic:	Yes
Fire:	No
Reactive:	No
Pressure:	No
Section 112(r): Clean Air Act	OZONE DEPLETING SUBSTANCES (ODS): This product neither contains nor is manufactured with an ozone depleting substance subject to the labeling requirements of the Clean Air Act Amendments 1190 and 40 CFR Part 82.
OSHA 29 CFR 1200:	This Material Safety Data Sheet complies with the U.S. OSHA Hazard Communication Standard 29CFR 1910.1200
Regulatory Paragraph:	OTHER REGULATIONS: Not Determined
Canada WHMIS:	WHMIS CLASSIFICATION: Class D Division 2 Subdivision B
Canada DSL:	DSL
European Community Chemical Inventory Status:	EUROPEAN REGULATIONS: DSL
	EINECS: YES
Japan MITI:	YES
Australia Chemical Inventory Status:	AICS: YES
	VOLATILE ORGANIC COMPOUNDS (CARB): Not Determined

Phosphorous :

Section 313 Toxic Release Form:	SARA SECTION 313 NOTIFICATION: This product contains a toxic chemical (or chemicals) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.
	INGREDIENT: Phosphorous CAS NO.: 7723-14-0

WEIGHT %: 6

Silver :

Section 313 Toxic Release Form:

SARA SECTION 313 NOTIFICATION: This product contains a toxic chemical (or chemicals) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

INGREDIENT: Silver
CAS NO.: 7440-22-4
WEIGHT %: 5

Copper :

Section 313 Toxic Release Form:

SARA SECTION 313 NOTIFICATION: This product contains a toxic chemical (or chemicals) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

INGREDIENT: Copper
CAS NO.: 7440-50-8
WEIGHT %: 89

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SECTION 16 : ADDITIONAL INFORMATION M/L 1131

HMIS:

Health Hazard:	2* = Moderate
Fire Hazard:	0 = Minimal
Reactivity:	0 = Minimal

NFPA:

Health:	2 = Moderate
Fire Hazard:	0 = Minimal
Reactivity:	0 = Minimal

MSDS Revision Date: 11/24/04
Supersedes: October 2004

Rev: 003

Disclaimer:

This Material Safety Data Sheet is offered solely for your information, consideration and investigation. Taracorp, Inc. provides no warranties, either express or implied, and assumes no responsibilities for the accuracy or completeness of the data contained in this document. The data in this Material Safety Data Sheet relates only to this product and does not relate to use in combination with any other material or in any process.

Comment: *Indicates the possibility of chronic health effects. See Chronic Health Effects Hazards in Section 3 for more information.

NFPA/HMIS HAZARD CODES:
SPECIAL: Not Applicable

0 = Minimal
1 = Slight
2 = Moderate
3 = Serious
4 = Severe

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