

Safety Data Sheet

<b>SECTION 1: Identif</b>	fication of the substance/mixture and of the co	mpany/undertaking
1.1. Product identi	ifier	
Product name	: Bronze Wire	
1.2. Relevant ident	tified uses of the substance or mixture and uses advised a	gainst
Use of the substance/mix	xture : Manufacturing	
1.3. Details of the	supplier of the safety data sheet	
Weiler Corporation 1 Weiler Drive Cresco, PA 18326		
1.4. Emergency tel	lephone number	
Emergency number	: 570-595-7495	
<b>SECTION 2: Hazard</b>	ds identification	

### 2.1. Classification of the substance or mixture

This product as manufactured is defined as an article per 29 CFR 1910.1200. No exposure hazards are anticipated during normal product handling conditions. In most cases, the material(s) removed from the workpiece may present a greater hazard than material released by the product. Based upon the materials that are contained within the working portion of this product it is possible that some dust particles from this product may be generated. The following safety data is presented for potential exposure hazards as associated with the dust particles that are related to this product.

### **Classification (GHS-US)**

Not classified

#### 2.2. Label elements

#### **GHS-US** labeling

This product as manufactured is defined as an article, therefore no labeling is required for the product as manufactured.

#### 2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

### **SECTION 3: Composition/information on ingredients**

3.1. Substance

#### Not applicable

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Copper	(CAS No) 7440-50-8	94 - 95	Not classified
Tin	(CAS No) 7440-31-5	<= 5.8	Not classified
Lead	(CAS No) 7439-92-1	<= 0.5	Carc. 1B, H350
Zinc	(CAS No) 7440-66-6	<= 0.3	Not classified
Iron	(CAS No) 7439-89-6	<= 0.1	Acute Tox. 4 (Oral), H302
Phosphorus elemental	(CAS No) 7723-14-0	<= 0.03	Not classified

Full text of H-phrases: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove victim from source of exposure to fresh air. If breathing is difficult administer oxygen. Seek medical attention.
First-aid measures after skin contact	: Wash with soap and water. Seek medical advice if skin irritation develops or persists.
First-aid measures after eye contact	: Flush with plenty of water for at least 15 minutes. Seek medical advice if irritation develops or persists.
First-aid measures after ingestion	: Seek medical attention.

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Symptoms/injuries after inhalation : May cause inspiratory inflation including full-like symptoms (metal fume fever); may includes fever, chills, nauses, vomiting, appears 4-12 hours after exposure				
tevier, chills, nausea, vontiling, appears 4-12 hour's after exposure. yimptominiputes after skin contact i May cause irritation and domatilis. yimptominiputes after skin contact i May cause irritation and special treatment needed is definitional role and immediate medical attention and special treatment needed is definitional information available SECTION 51: Fireflighting mediate medical attention and special treatment needed Sectional information available SECTION 51: Fireflighting mediate medical attention and special treatment needed Sectional information available SECTION 51: Fireflighting mediate medical attention and special treatment needed Sectional information available SECTION 51: Fireflighting mediate medical appropriate for surrounding fire. Sectional information available SECTION 51: Fireflighting media i None. Sectional information special treatment should were full protective gear. SECTION 61: Accidental release measures SECTION 61: Accidental release measures Sectional information available Sectional information available Sectional information available Section 61: Accidental release measures in special treatment needer special treatment information available Section 61: Accidental release measures required. Section 61: Accidental release measures required. Section 71: Annother sections Section 71: Annother Sections Secti	4.2. Most important symp	ptoms and effects		
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1.3.       Indication of any immediate medical attention and special treatment needed         36 additional information available         SECTION 51 Firefighting measures         3.       Extinguishing media       : Use extinguishing media appropriate for surrounding fire.         Surtable extinguishing media       : None.         3.       Special hazards arising from the substance or mixture         size possibility       : None known.         Signal with the substance or mixture       :         Size for firefighters       : None known.         Size for firefighters       : None known.         Size for firefighters       : Steffighters         Section 0.13.       Advice for firefighters         Section 1.13.       For one-mergency personnel         Be additional information available       :         Size for formation available       :         Size for foreignery responders       :         Kone Responders       :         Size for foreignery responders       :         Kone Responders       :         Size for foreignery responders       :         Kone Responder Sections       :         Sone Responder Sections       :         Reference to other sections       :         Songe conditions for safe handli				
Ale additional information available SECTION 5: Firefighting measures Section 5: Sectio	Symptoms/injuries after ingestion : None under normal use.			
SECTION 5: Firefighting media Suitable extinguishing media Suitable extin	4.3. Indication of any imm	mediate medical a	ttention and special treatment neede	d
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in kazari information variable information variabl	5.2. Special hazards aris	ing from the subs	ance or mixture	
3. Advice for firefighters       Firefighters should wear full protective gear.         Protection during firefighting       : Firefighters should wear full protective gear.         SECTION 6: Accidental release measures	Fire hazard	:	None known.	
Protection during firefighting <ul> <li>Firefighters should wear full protective gear.</li> </ul> SECTION 6: Accidental release measures <ul> <li>Personal precatutions, protective equipment and emergency procedures</li> <li>I.1. For non-emergency personel</li> <li>So additional information available</li> <li>Sintering and the state of th</li></ul>	Explosion hazard	:	None known.	
SECTION 6: Accidental release measures         1.1. For non-emergency personnel         Va additional information available         1.1. For non-emergency responders         Va additional information available         1.2. Environmental precautions         Kone.         3. Methods and material for containment and cleaning up         For containment       : No special measures required.         Vethods for ade handling       : No special measures required.         Vethods for other sections       : No special measures required.         Vethods for safe handling       : No special measures required.         Vethods for safe handling       : No special measures required.         Vethods for safe handling       : No special measures required.         Vethods for safe handling       : No special measures required.         Vetacutions for safe handling       : No special handling required.         V:2. Conditions for safe storage, including any incompatibilities       : No special storage conditions required.         V:3. Specific end use(s)       : No special protection         V:4. Control parameters       : No special protection         V:1. Control parameters       : No special protection         V:1. Control parameters       : Osthod PEL (TWA) (mg/m <sup>3</sup> )       : O.2 mg/m <sup>3</sup> (fume)       : Osthod PEL (TWA) (mg/m <sup>3</sup> )	5.3. Advice for firefighter	rs		
A.1.       Personal precautions, protective equipment and emergency procedures         St.1.       For enon-emergency personnel         St.2.       For emergency responders         St.2.       Environmental precautions         St.2.       Environmental proceautions         St.3.       Methods and material for containment and cleaning up         For containment       : No special measures required.         St.4.       Reference to other sections         St.5.       St.7.         St.4.       Reference to other sections         St.7.       Handling and Storage         St.7.       St.7.         St.7.	Protection during firefighting	:	Firefighters should wear full protective	e gear.
1.1. For non-emergency personnel         No additional information available         1.1. For emergency responders         No additional information available         1.2. Environmental precautions         Kanders         Kanders <td< td=""><td>SECTION 6: Accidental</td><td>release measu</td><td>res</td><td></td></td<>	SECTION 6: Accidental	release measu	res	
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1.1. For emergency responders   No additional information available   1.2. Environmental precautions   None.   1.3. Methods and material for containment and cleaning up   for containment : No special measures required.   Kethods for cleaning up : No special measures required.   Kethods for cleaning up : No special measures required.   Kethods for cleaning up : No special measures required.   Kethods for cleaning up : No special measures required.   Kethods for safe sections   No additional information available   SECTION 7: Handling and storage   Sections for safe handling   Y no special handling required.   Y no special storage conditions required. </td <td>6.1.1. For non-emergency</td> <td>personnel</td> <td></td> <td></td>	6.1.1. For non-emergency	personnel		
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No additional information available          Accoll Accoll TWA (mg/m <sup>3</sup> )       0.2 mg/m <sup>3</sup> (fume)         Accoll	6.1.2. For emergency resp	onders		
Aone.   4.3. Methods and material for containment and cleaning up   for containment No special measures required.   Alethods for cleaning up No special measures required.   6.4. Reference to other sections   4.0. Reference to other sections   5.1. Precautions for safe handling   Precautions for safe storage, including any incompatibilities   5.2. Conditions for safe storage, including any incompatibilities   6.3. Specific end use(s)   4.0 additional information available   5.2. Control Stersposure controls/personal protection   5.4. Control parameters   5.4. Control parameters   Copper (r440-50-6)   ACGIH   ACGIH   ACGIH   ACGIH (mg/m <sup>3</sup> )   0.5 HA PEL (TWA) (mg/m <sup>3</sup> )   0.1 mg/m <sup>3</sup> (fume)   1 mg/m <sup>3</sup> (dust and mist)				
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A additional information available	Methods for cleaning up			
SECTION 7: Handling and storage         C1.       Precautions for safe handling         Precautions for safe handling       : No special handling required.         C2.       Conditions for safe storage, including any incompatibilities         Storage conditions       : No special storage conditions required.         C3.       Specific end use(s)         No additional information available         SECTION 8: Exposure controls/personal protection         Control parameters         Copper (7440-50-8)         ACGIH       ACGIH TWA (mg/m³)       0.2 mg/m³ (fume)         OSHA       OSHA PEL (TWA) (mg/m³)       0.1 mg/m³ (dust and mist)         Zinc (7440-66-6)       ACGIH       Not applicable	6.4. Reference to other s	ections		
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X.3.       Specific end use(s)         No additional information available         SECTION 8: Exposure controls/personal protection         Section and parameters         Copper (7440-50-8)         ACGIH       ACGIH TWA (mg/m³)       0.2 mg/m³ (fume)         OSHA       OSHA PEL (TWA) (mg/m³)       0.1 mg/m³ (fume)         Img/m³ (dust and mist)         Zinc (7440-66-6)         ACGIH       Not applicable		0, 0		d.
Section 8: Exposure controls/personal protection   S.1. Control parameters   Copper (7440-50-8)   ACGIH   ACGIH TWA (mg/m³)   0.2 mg/m³ (fume)   0SHA   OSHA PEL (TWA) (mg/m³)   0.1 mg/m³ (fume)   1 mg/m³ (dust and mist)	•			
SECTION 8: Exposure controls/personal protection         Section and parameters         Comper (7440-50-8)         ACGIH       ACGIH TWA (mg/m³)       0.2 mg/m³ (fume)         OSHA       OSHA PEL (TWA) (mg/m³)       0.1 mg/m³ (fume)         Zinc (7440-66-6)       Not applicable       Vot applicable		ble		
Control parameters           Copper (7440-50-8)           ACGIH         ACGIH TWA (mg/m³)         0.2 mg/m³ (fume)           OSHA         OSHA PEL (TWA) (mg/m³)         0.1 mg/m³ (fume)           Img/m³ (dust and mist)         Img/m³ (dust and mist)			al protection	
Copper (7440-50-8)           ACGIH         ACGIH TWA (mg/m³)         0.2 mg/m³ (fume)           OSHA         OSHA PEL (TWA) (mg/m³)         0.1 mg/m³ (fume)           1 mg/m³ (dust and mist)         1 mg/m³ (dust and mist)		ontrois/persor		
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ACGIH Not applicable			·/ 、···· <b>3</b> /···· /	5 ( )
ACGIH Not applicable	Zinc (7440-66-6)	•		·
		Not applicable		

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Lead (7439-92-1)			
ACGIH	ACGIH TWA (mg/m³)	0.05 mg/m³	
OSHA	OSHA PEL (TWA) (mg/m³)	0.05 mg/m³	
	•		
Iron (7439-89-6)			
ACGIH	Not applicable		
OSHA	Not applicable		
Phosphorus elemental (7723	$a_{1} = a_{1} = a_{1$		
· · · · · · · · · · · · · · · · · · ·	•		
ACGIH	Not applicable	ivot applicable	
OSHA	Not applicable		
Tin (7440-31-5)			
ACGIH	ACGIH TWA (mg/m <sup>3</sup> ) 2 mg/m <sup>3</sup>		
OSHA	Not applicable		

Note: Consideration should be given to the base material and coating that are being worked upon.

## 8.2. Exposure controls

### Appropriate engineering controls:

Utilize adequate ventilation to minimize the exposure to airborne particulates and maintain the concentration of contaminants below the occupational exposure limits.

### **Respiratory Protection:**

When exposure limits are exceeded or when the dust concentrations are excessive, approved respirators for those conditions should be used. When selecting the respiratory protection equipment, consideration of the exposure to the coating or the base materials being worked on should be included. Local regulations and standards should be followed where appropriate. The type of respiratory equipment used should be selected according to the contaminate type, form and concentration being produced. Select and use respirators in accordance with applicable regulations and good industrial hygiene practice.

#### Hand protection:

The use of cloth or leather gloves is recommended.

### Eye Protection:

Safety googles or face shield over safety glasses with side shields.

### Hearing Protection:

Hearing protection may be required.

### Skin and body protection:

The use of protective clothing should be used as needed to prevent the contamination of personal clothing.

SECTION 9: Physical and chemica	al properties	
9.1. Information on basic physical an	d chemical properties	
Physical state	: Solid	
Color	: Brown	
Odor	: Odorless	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: No data available	
Explosion limits	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
Vapor pressure	: No data available	
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Specific gravity	: 8.53
Relative vapor density at 20 °C	: No data available
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	
No additional information available	
<b>SECTION 10: Stability and reactiv</b>	ity
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal handling and	storage conditions.
10.3. Possibility of hazardous reaction	ns
Will not occur.	
10.4. Conditions to avoid	
None.	
10.5. Incompatible materials	
None.	
10.6. Hazardous decomposition produ	ıcts
Not determined.	
<b>SECTION 11: Toxicological inform</b>	nation
11.1. Information on toxicological effe	

Acute toxicity

: Not classified

Iron (7439-89-6)		
LD50 oral rat	984 mg/kg	
ATE US (oral)	984.000 mg/kg	
Phosphorus elemental (7723-14-0)		
LD50 oral rat	3.03 mg/kg	
LD50 dermal rat	100 mg/kg	
LC50 inhalation rat (mg/l)	4.3 mg/l (Exposure time: 1 h)	
Tin (7440-31-5)		
LD50 oral rat	700 mg/kg	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	

Lead (7439-92-1)	
IARC group	2A - Probably carcinogenic to humans
National Toxicology Program (NTP) Status	3 - Reasonably anticipated to be Human Carcinogen
In OSHA Hazard Communication Carcinogen list	Yes

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Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated	: Not classified
exposure)	

Aspiration hazard

: Not classified

# SECTION 12: Ecological information

12.1. Toxicity

Copper (7440-50-8)	
LC50 fish 1	0.0068 - 0.0156 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 1	0.03 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 fish 2	< 0.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
Zinc (7440-66-6)	
LC50 fish 1	2.16 - 3.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	0.139 - 0.908 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 fish 2	0.211 - 0.269 mg/l (Exposure time: 96 h - Species: Pimephales promelas [semi-static])
Lead (7439-92-1)	
LC50 fish 1	0.44 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])
EC50 Daphnia 1	600 μg/l (Exposure time: 48 h - Species: water flea)
LC50 fish 2	1.17 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
Phosphorus elemental (7723-14-0)	
LC50 fish 1	0.0017 - 0.0035 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])
EC50 Daphnia 1	0.03 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	0.001 - 0.004 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 2	0.025 - 0.037 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

# 12.2. Persistence and degradability

No additional information available

## 12.3. Bioaccumulative potential

Phosphorus elemental (7723-14-0)		
BCF fi	sh 1	< 200
12.4.	Mobility in soil	

No additional information available

12.5.	Other adverse effects	
Effect on	ozone layer	: No additional information available
Effect on	the global warming	: No known ecological damage caused by this product.

SECTION	13: Disposal consideratio	ns		
13.1. W	aste treatment methods			
Waste dispo	osal recommendations	: Dispose of contents/container in accordance with local/regional/national/international regulations.		
SECTION	14: Transport information			
Departmen	t of Transportation (DOT)			
In accordan	ce with DOT			
Not a dange	Not a dangerous good as defined in transport regulations			

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SECTION 15: Regulatory information			
15.1. US Federal regulations			
Copper (7440-50-8)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)			
SARA Section 313 - Emission Reporting 1.0 %			
Zinc (7440-66-6)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)			
SARA Section 313 - Emission Reporting	1.0 % (dust or fume only)		
Lead (7439-92-1)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)			
SARA Section 313 - Emission Reporting 0.1 %			
Iron (7439-89-6)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
Phosphorus elemental (7723-14-0)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 302 (Specific toxic chemical listings) Listed on SARA Section 313 (Specific toxic chemical listings)			
SARA Section 302 Threshold Planning Quantity (TPQ)	100 (This material is a reactive solid. The TPQ does not default to 10000 pounds for non- powder, non-molten, non-solution form)		
SARA Section 313 - Emission Reporting	1.0 % (yellow or white)		
Tin (7440-31-5)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			

## 15.2. US State regulations

Lead	(7439	-92-1)	

Leau (1439-92-1)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	Yes	Yes	Yes	15 µg/day

Copper (7440-50-8)
U.S Massachusetts - Right To Know List U.S Minnesota - Hazardous Substance List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List
Zinc (7440-66-6)
U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List
Lead (7439-92-1)
U.S Massachusetts - Right To Know List U.S Minnesota - Hazardous Substance List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List
U.S Minnesota - Hazardous Substance List U.S New Jersey - Right to Know Hazardous Substance List

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## Tin (7440-31-5)

- U.S. Massachusetts Right To Know List
- U.S. Minnesota Hazardous Substance List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

## **SECTION 16: Other information**

Full text of H-phrases::

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Carc. 1B	Carcinogenicity Category 1B
H302	Harmful if swallowed
H350	May cause cancer

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product