



Issuing Date 01-Nov-2006

Revision Date 01-June-2017

Revision Number 1

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

Product identifier

**Product Name** Bronze Plated on Steel Products

Recommended use of the chemical and restrictions on use

Mold bushings	Metric L gib
Ejector bushings	Vee-gibbs
Shoulder bushings	Metric vee-gibbs
Guide bar bushings	Side plates
Guide pin bushings	Metric side plates
Stripper guide bushings	Wear plates
Running fit bushings	Metric wear plates
L Gibs	

Details of the supplier of the safety data sheet

**Supplier** Anchor Lamina Americas  
**Address** 3650 South Derenzy Road,  
Bellaire, MI 49615

**Manufacturer** Anchor Lamina Americas  
**Address** 3650 South Derenzy Road,  
Bellaire, MI 49615

Emergency Telephone Number

**Company Phone Number** 231-533-8646

**2. HAZARDS IDENTIFICATION**

Classification

Steel, bronze products under normal circumstances do not present and inhalation, skin contact, or ingestion hazard and are considered environmentally safe. This product is not classified at this time.

Label Elements – no special labeling requirements

**EMERGENCY OVERVIEW**

Processes such as burning, cutting, welding, brazing, grinding, etc that elevate the temperature of the product or produce dust may create elevated concentrations of contaminants

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Synonyms

Chemical Name	CAS-No.	Weight %
Iron	7439-89-6	98%
Carbon	7440-44-0	<1%
Manganese	7439-96-5	<1%
Phosphorus	7723-14-0	<1%
Sulfur	7704-34-9	<1%
Copper	7440-31-5	<1%
Tin	7440-31-5	<1%

### 4. FIRST AID MEASURES

#### FIRST AID MEASURES

<b>Eye contact (Grinding, Cutting)</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs, get medical advice/attention
<b>Skin contact (Grinding, Cutting)</b>	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If irritation or rash occurs, consult a physician
<b>Inhalation (Grinding, Cutting, Heating)</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory irritation, dizziness, nausea or unconsciousness occurs call poison control
<b>Ingestion (Grinding, Cutting)</b>	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If conscious give large quantities of water

#### Most important symptoms and effects, both acute and delayed

**Notes to Physician** Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

<b><u>Suitable extinguishing media</u></b>	Use extinguishing measures appropriate to local circumstances and surrounding materials.
<b>Unsuitable extinguishing media</b>	N/A.
<b><u>Explosion Data</u></b>	
<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	None.
<b><u>Protective equipment and precautions for firefighters</u></b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Ensure adequate ventilation.

#### Environmental precautions

**Environmental precautions**

Methods and material for containment and cleaning up

Methods for Cleaning Up N/A.

**7. HANDLING AND STORAGE**

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage None

Incompatible materials None

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Control parameters

Chemical Name	CAS-No.	Exposure limits	
		OSHA PEL	ACGIH TLV
Iron	7439-89-6	10 mg/m3	5mg/m3
Carbon	7440-44-0	15 mg/m3 (dust)	10mg/m3
Manganese	7439-96-5	15 mg/m3	10mg/m3
Phosphorus	7723-14-0	0.1 mg/m3	0.1mg/m3
Sulfur	7704-34-9	15 mg/m3	10mg/m3
Copper	7440-50-9	0.1 mg/m3 fume 1-dust	0.2 mg/m3 fume
Tin	7440-31-5	2 mg/m3	2 mg/m3

Exposure Guidelines

Appropriate engineering controls

Engineering Measures

Individual protection measures, such as personal protective equipment

Eyeface Protection Safety glasses with side-shields.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

Physical State Solid  
 Appearance Coating  
 Color Bronze  
 Odor None

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH		-
Melting point/freezing point		
Boiling point/boiling range	2482 C (	
Flash Point		
Evaporation Rate		
Flammability (solid, gas)		
Flammability Limits in Air		
Upper flammability limits		
Lower Flammability Limit		
Vapor pressure		
Vapor Density		
Specific Gravity	Bronze 8.8, Steel 7.8	
Water Solubility	Insoluable	
Solubility in other solvents		
Partition coefficient		
Autoignition Temperature		
Decomposition temperature		
Kinematic viscosity		
Dynamic viscosity		

## 10. STABILITY AND REACTIVITY

<u>Reactivity</u>	None
<u>Chemical stability</u>	Material is stable under normal conditions
<u>Possibility of Hazardous Reactions</u>	
Hazardous Reactions	
<u>Conditions to Avoid</u>	N/A
<u>Incompatible materials</u>	
<u>Hazardous Decomposition</u>	
<u>Products</u>	
None	

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

<b>Product Information</b>	Product does not present an acute toxicity hazard based on published data for similar substances.
<b>Inhalation</b>	
<b>Eye contact</b>	
<b>Skin contact</b>	
<b>Ingestion</b>	There is no data available for this product.

### Information on toxicological effects

**Symptoms** No information available.

### **Exposure Guidelines**

**Numerical measures of toxicity-** Not determined

## 12. ECOLOGICAL INFORMATION

Ecotoxicity No hazard

Persistence and degradability

Not available

## 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

**Waste Disposal Method** Please consult your local or regional authorities

**Contaminated Packaging** N/A

## 14. TRANSPORT INFORMATION

<u>DOT</u>	Not regulated
<u>TDG</u>	Not regulated
<u>MEX</u>	Not regulated
<u>ICAO</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG / IMO</u>	Not regulated
<u>RID</u>	Not regulated
<u>ADR</u>	Not regulated
<u>ADN</u>	Not regulated

## 15. REGULATORY INFORMATION

**International Inventories:** Product not listed

**Legend**

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*

*DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*

*EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances*

*ENCS - Japan Existing and New Chemical Substances*

*IECSC - China Inventory of Existing Chemical Substances*

*KECL - Korean Existing and Evaluated Chemical Substances*

*PICCS - Philippines Inventory of Chemicals and Chemical Substances*

*AICS - Australian Inventory of Chemical Substances*

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations,

**SARA 311/312 Hazard Categories**

<b>Acute health hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

**16. OTHER INFORMATION**

<b>NFPA</b>	Health Hazard	0	Flammability	0	Instability	0	Physical and Chemical
<b>HMIS</b>	Health Hazard	0	Flammability	0	Physical hazards	0	Personal Precautions
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Revision Date		01-June-2017					

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End of MSDS