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

<table>
<thead>
<tr>
<th>Product identifier</th>
<th>Bronze Plated on Steel Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mold bushings</td>
<td>Metric L gib</td>
</tr>
<tr>
<td>Ejector bushings</td>
<td>Vee-gibbs</td>
</tr>
<tr>
<td>Shoulder bushings</td>
<td>Metric vee-gibbs</td>
</tr>
<tr>
<td>Guide bar bushings</td>
<td>Side plates</td>
</tr>
<tr>
<td>Guide pin bushings</td>
<td>Metric side plates</td>
</tr>
<tr>
<td>Stripper guide bushings</td>
<td>Wear plates</td>
</tr>
<tr>
<td>Running fit bushings</td>
<td>Metric wear plates</td>
</tr>
<tr>
<td>L Gibs</td>
<td></td>
</tr>
</tbody>
</table>

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 contaminates
3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron</td>
<td>7439-89-6</td>
<td>98%</td>
</tr>
<tr>
<td>Carbon</td>
<td>7440-44-0</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Manganese</td>
<td>7439-96-5</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Phosphorus</td>
<td>7723-14-0</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Sulfur</td>
<td>7704-34-9</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Copper</td>
<td>7440-31-5</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Tin</td>
<td>7440-31-5</td>
<td>&lt;1%</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

FIRST AID MEASURES

Eye contact (Grinding, Cutting)  
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

Skin contact (Grinding, Cutting)  
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

Inhalation (Grinding, Cutting, Heating)  
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

Ingestion (Grinding, Cutting)  
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

Suitable extinguishing media  
Use extinguishing measures appropriate to local circumstances and surrounding materials.

Unsuitable extinguishing media  
N/A.

Explosion Data

Sensitivity to Mechanical Impact  
None.

Sensitivity to Static Discharge  
None.

Protective equipment and precautions for firefighters  
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

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

Exposure Guidelines

Appropriate engineering controls

Engineering Measures

Individual protection measures, such as personal protective equipment

Eyel/face Protection Safety glasses with side-shields.

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

## 10. STABILITY AND REACTIVITY

### Reactivity
None

### Chemical stability
Material is stable under normal conditions

### Possibility of Hazardous Reactions
- Hazardous Reactions
- Conditions to Avoid: N/A

### Incompatible materials

### Hazardous Decomposition Products
None

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information
Product does not present an acute toxicity hazard based on published data for similar substances.

- Inhalation
- Eye contact
- Skin contact

#### Ingestion
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

DOT
Not regulated

TDG
Not regulated

MEX
Not regulated

ICAO
Not regulated

IATA
Not regulated

IMDG / IMO
Not regulated

RID
Not regulated

ADR
Not regulated

ADN
Not regulated

15. REGULATORY INFORMATION

International Inventories: Product not listed

Legend
TSIAC - 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

Acute health hazard
No

Chronic Health Hazard
No

Fire hazard
No

Sudden release of pressure hazard
No

Reactive Hazard
No
16. OTHER INFORMATION

NFPA  Health Hazard  0  Flammability  0  Instability  0  Physical and Chemical
HMIS  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