SECTION 1: Identification of the substance/mixture and of the supplier

Product name: Onions Fusible Alloy

Manufacturer/Supplier Trade name: 

Manufacturer/Supplier Article number: S25776A

Recommended uses of the product and restrictions on use:

SECTION 2: Hazards identification

Classification of the substance or mixture:
- Acute toxicity (oral, dermal, inhalation), category 4
- Reproductive toxicity, category 1A
- Specific target organ toxicity following repeated exposure, category 2
- Acute hazards to the aquatic environment, category 1
- Chronic hazards to the aquatic environment, category 1

Hazard statements:
- Harmful if swallowed.
- Harmful if inhaled.
- May damage fertility or the unborn child.
- May cause damage to organs through prolonged or repeated exposure.
- Very toxic to aquatic life.
- Very toxic to aquatic life with long lasting effects.

Precautionary statements:
- Wash skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Use only outdoors or in a well-ventilated area.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use personal protective equipment as required.
- Rinse mouth.
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF exposed or concerned: Get medical advice/attention.
- Store locked up.
- Dispose of contents and container to an approved waste disposal plant.

Other Non-GHS Classification:
SECTION 3: Composition/information on ingredients

Ingredients:

<table>
<thead>
<tr>
<th>CAS</th>
<th>Name</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>7439-92-1</td>
<td>Lead</td>
<td>30 %</td>
</tr>
<tr>
<td>7440-69-9</td>
<td>Bismuth</td>
<td>50 %</td>
</tr>
<tr>
<td>7440-31-5</td>
<td>Tin</td>
<td>20 %</td>
</tr>
</tbody>
</table>

Percentages are by weight

SECTION 4: First aid measures

Description of first aid measures

After inhalation: None
After skin contact: None
After eye contact: None
After swallowing: None

Most important symptoms and effects, both acute and delayed: None
Indication of any immediate medical attention and special treatment needed: None

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing agents: None
Unsuitable extinguishing agents: None

Special hazards arising from the substance or mixture:

Lead oxides.

Advice for firefighters:

Protective equipment: None
Additional information (precautions): None
SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: None
Environmental precautions: None
Methods and material for containment and cleaning up: None
Reference to other sections: None

SECTION 7: Handling and storage

Precautions for safe handling: None
Conditions for safe storage, including any incompatibilities: None

SECTION 8: Exposure controls/personal protection

Control Parameters:
- 7439-92-1, Lead, ACGIH TLV TWA 0.05 mg/m3.
- 7439-92-1, Lead, NIOSH TWA 0.05 mg/m3.
- 7440-69-9, Bismuth, ACGIH TLV: NA, OSHA PEL: NA.
- 7440-31-5, Tin, ACGIH TLV: 2 mg/m3, OSHA PEL: 2gm/m3.

Appropriate Engineering controls: None
Respiratory protection: None
Protection of skin: None
Eye protection: None
General hygienic measures: None

SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance (physical state, color)</td>
<td>Silvery white metal</td>
</tr>
<tr>
<td>Explosion limit lower</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Explosion limit upper</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not Determined</td>
</tr>
<tr>
<td>pH-value</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Melting/Freezing point</td>
<td>92C</td>
</tr>
<tr>
<td>Solubilities</td>
<td>insoluble in water.</td>
</tr>
<tr>
<td>Boiling point/Boiling range</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flash point (closed cup)</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Auto/Self-ignition temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flammability (solid, gaseous)</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Viscosity</td>
<td>a. Kinematic: Not determined</td>
</tr>
<tr>
<td>Density</td>
<td>Not Determined</td>
</tr>
<tr>
<td>b. Dynamic: Not Determined</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 10: Stability and reactivity

Reactivity: None
Chemical stability: None
Possible hazardous reactions: None
Conditions to avoid:
Dust generation, excess heat.
Incompatible materials:
Strong oxidizing agents, aluminum and air, ammonium nitrate, chloric acid, chlorine, iodine pentafluoride, nitric acid, perchloric acid, nitrosyl fluoride, iodine pentafluoride and halogens, sodium peroxide, sulfur, copper nitrate, hydrochloric acid, tin chloride, potassium peroxide.

Hazardous decomposition products:
Lead oxides. Lead oxides, bismuth oxides, tin oxides.

SECTION 11: Toxicological information

<table>
<thead>
<tr>
<th>Acute Toxicity:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral:</td>
<td>7440-69-9</td>
</tr>
<tr>
<td>Chronic Toxicity:</td>
<td>No additional information.</td>
</tr>
<tr>
<td>Corrosion Irritation:</td>
<td>No additional information.</td>
</tr>
<tr>
<td>Sensitization:</td>
<td>No additional information.</td>
</tr>
<tr>
<td>Single Target Organ (STOT):</td>
<td>No additional information.</td>
</tr>
<tr>
<td>Numerical Measures:</td>
<td>No additional information.</td>
</tr>
</tbody>
</table>
| Carcinogenicity: | IARC: 2B: Possibly carcinogenic to humans (Lead)
NTP: Reasonably anticipated to be a human carcinogen (Lead) |
| Mutagenicity: | No additional information. |
| Reproductive Toxicity: | Reproductive toxicity - rat - Inhalation Effects on Newborn: Biochemical and metabolic. Reproductive toxicity - rat - Oral Effects on Newborn: Behavioral. |

SECTION 12: Ecological information

| Ecotoxicity: | No information available. |
| Persistence and degradability: | No information available. |
| Bioaccumulative potential: | No information available. |
| Mobility in soil: | No information available. |
| Other adverse effects: | No information available. |
### SECTION 13: Disposal considerations

Waste disposal recommendations:
- None

### SECTION 14: Transport information

- **UN-Number:** 3077
- **UN proper shipping name:** Environmentally hazardous substance, solid, n.o.s. (Lead)
- **Transport hazard class(es):** None
- **Packing group:** III
- **Environmental hazard:** None
- **Transport in bulk:** Not Applicable
- **Special precautions for user:** None

### SECTION 15: Regulatory information

#### United States (USA)

- **SARA Section 311/312 (Specific toxic chemical listings):**
  - Acute, Chronic
- **SARA Section 313 (Specific toxic chemical listings):**
  - 7439-92-1 Lead.
- **RCRA (hazardous waste code):** None of the ingredients are listed.
- **TSCA (Toxic Substances Control Act):** None of the ingredients are listed.
- **CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):** None of the ingredients are listed.

#### Proposition 65 (California):

- **Chemicals known to cause cancer:** None of the ingredients are listed.
- **Chemicals known to cause reproductive toxicity for females:** None of the ingredients are listed.
- **Chemicals known to cause reproductive toxicity for males:** None of the ingredients are listed.
- **Chemicals known to cause developmental toxicity:** None of the ingredients are listed.

#### Canada

- **Canadian Domestic Substances List (DSL):** All ingredients are listed.
- **Canadian NPRI Ingredient Disclosure list (limit 0.1%):**
None of the ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 1%):
None of the ingredients are listed.

SECTION 16: Other information

GHS Full Text Phrases: None

Abbreviations and Acronyms: None

Effective date: 02.11.2015
Last updated: 06.17.2015