MATERIAL SAFETY DATA SHEET

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AMES METAL PRODUCTS CO.
2211 S. Foster Ave
Wheeling, Illinois 60090
Phone: 847-749-1672
FAX: 847-670-1092

1. PRODUCT INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight %</th>
<th>Permissible Air Concen.(mg/cu.m.)</th>
<th>SARA Title III Sect.313Chem.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIN</td>
<td>7440-31-5</td>
<td>0-100</td>
<td>OSHA ACGIH 2.0 2.0</td>
<td>NO</td>
</tr>
<tr>
<td>LEAD</td>
<td>7439-92-1</td>
<td>0-100</td>
<td>0.05  0.15</td>
<td>YES</td>
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<tr>
<td>SILVER</td>
<td>7440-22-4</td>
<td>&lt;20</td>
<td>.1  .1</td>
<td>YES</td>
</tr>
<tr>
<td>ROSIN</td>
<td>8050-09-7</td>
<td>1-3</td>
<td>N/A  N/A</td>
<td>NO</td>
</tr>
</tbody>
</table>

No other hazardous material is present in concentration greater than 1%(0.1% for carcinogens)

2. PHYSICAL DATA

Material is SOLID
Appearance and Odor SILVER-WHITE METAL, CORE HAS SLIGHT ODOR

Melting Point METAL 179-312°C
CORE 250°C
Boiling Point >1300°C
106°C
Specific Gravity 7.3-11.3
1.1
Solubility in Water INSOLUBLE
Vapor Pressure N/A
Evaporation Rate N/A
pH N/A

3. FIRE AND EXPLOSION DATA

Flash Point METAL N/A
CORE N/A
300°F

Unusual Fire and Explosion Hazards
MOLTEN METALS PRODUCE FUME OR VAPOR THAT MAY BE TOXIC AND/OR RESPIRATORY IRRITANTS. REACTS VIOLENTLY WITH OXIDIZING AGENTS.

Fire Extinguishing Agents Recommended
USE CO2 OR DRY CHEMICAL ON SURROUNDING FIRE.

Fire Extinguishing Agents To Avoid
DO NOT USE WATER ON FIRE WHERE MOLTEN METAL IS PRESENT.
Special Fire Fighting Precautions
USE NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS AND FULL BODY PROTECTIVE CLOTHING.

NFPA RATING 1 0 HEALTH 1, FLAMMABILITY 1, REACTIVITY 0, SPECIAL 0

4. HEALTH HAZARD INFORMATION

Primary Routes of Entry
INGESTION X INHALATION ABSORPTION

Carcinogenicity
THIS PRODUCT HAS NOT BEEN LISTED AS A SUSPECT CARCINOGEN BY NTP, IARC OR OSHA.

Acute Overexposure (symptoms and effects)
SEVERE SHORT-TERM OVEREXPOSURE MAY LEAD TO CENTRAL NERVOUS SYSTEM DISORDERS, CHARACTERIZED BY DROWSINESS, SEIZURES, COMA AND DEATH. IT SHOULD BE RECOGNIZED THAT EXPOSURES OF THIS MAGNITUDE IN AN INDUSTRIAL ENVIRONMENT ARE EXTREMELY UNLIKELY.

Chronic Overexposure (symptoms and effects)
PROLONGED OVEREXPOSURE TO LEAD CAN RESULT IN SYSTEMIC POISONING WITH SYMPTOMS OF METALLIC TASTE, ANEMIA, INSOMNIA, WEAKNESS, CONSTIPATION, ABDOMINAL PAIN, GASTROINTESTINAL DISORDERS, JOINT AND MUSCULAR PAIN AND MUSCULAR WEAKNESS AND MAY CAUSE DAMAGE TO THE BLOOD-FORMING, NERVOUS, KIDNEYS AND REPRODUCTIVE SYSTEMS.

Medical Conditions Possibly Aggravated By Exposure
DISEASES OF THE BLOOD AND BLOOD FORMING ORGANS, KIDNEYS, NERVOUS AND POSSIBLY REPRODUCTIVE SYSTEMS.

First Aid Procedures
INHALATION: REMOVE FROM EXPOSURE AND CALL A PHYSICIAN.
SKIN CONTACT: WASH AFFECTED AREAS WITH SOAP AND WATER. IF BURNS SHOULD OCCUR FROM MOLTEN METAL TREAT FOR BURN AND GET IMMEDIATE MEDICAL ASSISTANCE.
EYE CONTACT: FLUSH EYES WITH WATER FOR 15 MINUTES, CALL A PHYSICIAN.
INGESTION: INGEST LARGE QUANTITIES OF WATER, CALL A PHYSICIAN.

5. PRECAUTIONS/PROCEDURES

OVERHEATING OF ALLOY CAN PRODUCE METAL FUMES AND OXIDES. MACHINING OPERATIONS SUCH AS GRINDING, SAWING OR BUFFING CAN GENERATE AIRBORNE PARTICULATE IN THE WORK AREA. EXPOSURE LEVELS INDICATED IN SECTION 1 ARE RELEVANT TO THESE AND OTHER OPERATIONS.

Normal Handling
USE OF APPROVED RESPIRATORS IS REQUIRED FOR APPLICATIONS WHERE ADEQUATE VENTILATION CANNOT BE PROVIDED. ACTIVITIES WHICH GENERATE DUST OR FUME SHOULD BE AVOIDED. WHEN MELTED, THE TEMPERATURE SHOULD BE KEPT AS LOW AS POSSIBLE.
Spill or Leak:
ANY METHOD THAT KEEPS DUST TO A MINIMUM IS ACCEPTABLE. VACUUMING IS PREFERRED.
USE OF APPROVED RESPIRATORY PROTECTION WHERE POSSIBILITY OF DUST/FUME
EXPOSURE EXISTS. DO NOT USE COMPRESSED AIR FOR CLEANING.

Personal Hygiene:
AVOID INHALATION OR INGESTION. PRACTICE GOOD HOUSEKEEPING AND PERSONAL
HYGIENE PROCEDURES. A SHOWER IS RECOMMENDED IF SIGNIFICANT DUST EXPOSURE
OCCURS.

Engineering Controls:
LOCAL EXHAUST VENTILATION IS RECOMMENDED FOR DUST AND/OR FUME GENERATION
OPERATIONS WHERE AIRBORNE EXPOSURES MAY EXCEED PERMISSIBLE AIR
CONCENTRATIONS.

Storage:
GENERAL STORAGE PROCEDURES ACCEPTABLE.

Special Precautions, Procedures, Label Instruction:
SPECIAL ATTENTION IS DRAWN TO THE REQUIREMENTS OF THE OSHA LEAD STANDARD
(1910.1025) AND RESPIRATOR STANDARD (1910.134) SHOULD AIRBORNE EXPOSURES
EXCEED THE OSHA ACTION LEVEL OR PEL.

6. PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection:
WHERE AIRBORNE EXPOSURES MAY EXCEED OSHA/ACGIH PERMISSIBLE AIR
CONCENTRATIONS, THE MINIMUM RESPIRATORY PROTECTION RECOMMENDED IS A
NEGATIVE PRESSURE AIR PURIFYING RESPIRATOR WITH CARTRIDGES THAT ARE
NIOSH/MSHA APPROVED AGAINST DUST, FUMES AND MISTS HAVING A TWA NOT LESS THAN
0/05 MG/CU M.

Eyes and Face:
SAFETY GLASSES RECOMMENDED WHERE THE POSSIBILITY OF GETTING DUST PARTICLES IN
EYES EXISTS OR WHEN HANDLING MOLTEN METAL.

Other Clothing and Equipment
GLOVES AND OTHER PROTECTIVE CLOTHING RECOMMENDED IF SKIN CONTACT IS
APPRECIABLE.

7. REACTIVITY DATA

Stability: STABLE Conditions to Avoid: NOT APPLICABLE
Incompatibility: STRONG OXIDIZERS MAY CAUSE VIOLENT REACTION.
Hazardous Decomposition Products: AT TEMPERATURES ABOVE THE MELTING POINT, TOXIC
FUMES OR VAPORS MAY BE Emitted.

8. ENVIRONMENTAL

Regulated by DOT? NO
Waste Disposal Method (DISPOSER MUST COMPLY WITH FEDERAL, STATE AND LOCAL DISPOSAL OR DISCHARGE LAWS)

RCRA Status of Unused Material:
IF DISCARDED IN UNALTERED FORM, MATERIAL SHOULD BE TESTED TO DETERMINE IF IT MUST BE CLASSIFIED AS A HAZARDOUS WASTE FOR DISPOSAL PURPOSES. UNDER SPECIFIC CIRCUMSTANCES, APPLICATION CAN BE MADE TO THE EPA ADMINISTRATOR TO HAVE A PARTICULAR WASTE DESIGNATED NON-HAZARDOUS.

9. ADDITIONAL INFORMATION

Precautions to be taken in handling and storing: NONE

Other Precautions: NONE

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