

MATERIAL SAFETY DATA SHEET(MAY BE USED TO COMPLY WITH OSHA'S HAZARD COMMUNICATION STANDARD)
29 CFR 1910.1200 STANDARD MUST BE CONSULTED FOR SPECIFIC REQUIREMENTS**TIN (GRADE A TIN)****PAGE 1 OF 2****SECTION I**

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|--|---|
| MANUFACTURER'S NAME: OWL WIRE AND CABLE, INC. | EMERGENCY TELEPHONE NUMBER: 215-524-1440 (AFTER 5:00 P.M. 215-964-8415) |
| ADDRESS (NUMBER, STREET): 3127 SENECA TURNPIKE | TELEPHONE NUMBER FOR INFORMATION: (315) 697 - 2011 |
| CITY: CANASTOTA | DATE PREPARED: 09-11-06 |
| STATE AND ZIP CODE NEW YORK 13032 | SIGNATURE OF PREPARER: (OPTIONAL) |

SECTION II**HAZARDOUS INGREDIENTS / IDENTITY INFORMATION**

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|---|-----------------|------------------|---------------------------------|
| HAZARDOUS COMPONENTS: SPECIFIC CHEMICAL IDENTITY: COMMON NAME(S) | OSHA PEL | ADGIH TLV | RECOMMENDED % (OPTIONAL) |
| TIN GRADE A TIN | 7440-31-5 | 2MG/MF | 2MG/MF 99.85% |
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SECTION III**PHYSICAL / CHEMICAL CHARACTERISTICS**

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| BOILING POINT 2507° C | SPECIFIC GRAVITY (H₂O - 1) 7.31 |
| VAPOR PRESSURE (MM Hg) 1 @ 1609° C | MELTING POINT 231.9° C |
| VAPOR DENSITY (AIR - 1) NOT APPLICABLE | EVAPORATION RATE (BUTYL ACETATE - 1) NOT APPLICABLE |
| SOLUBILITY IN WATER INSOLUABLE | |
| APPEARANCE AND ODOR SILVERY GRANULES, BARS, OR MOSSY FLAKES. | |

SECTION IV**FIRE AND EXPLOSION HAZARD DATA**

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| FLASH POINT (METHOD USED) NOT APPLICABLE | FLAMMABLE LIMITS TIN DUST 19 OZ PER CUBIC FOOT | LEL NOT APPLICABLE | UEL NOT APPLICABLE |
| EXTINGUISHING MEDIA SPECIAL POWDER OR DRY SAND. DO NOT USE WATER! | | | |
| SPECIAL FIRE FIGHTING PROCEDURES WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND CLOTHING. | | | |
| UNUSUAL FIRE AND EXPLOSION HAZARDS DUST AT SUFFICIENT CONCENTRATIONS CAN FORM EXPLOSIVE MIXTURES WITH AIR. | | | |

SECTION V
REACTIVITY DATA

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| STABILITY | UNSTABLE | | CONDITIONS TO AVOID: MOISTURE |
| | STABLE | X | |
| INCOMPATIBILITY (MATERIALS TO AVOID) HALOGENS, HALOGEN TRIFLUORIDES, SULFUR, POTASSIUM PEROXIDE, ACIDS. | | | |
| HAZARDOUS POLYMERIZATION | MAY OCCUR | | HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: NONE |
| | WILL NOT OCCUR | X | CONDITIONS TO AVOID: NOT APPLICABLE |

**SECTION VI
HEALTH HAZARD DATA**

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| ROUTES OF ENTRY: | INHALATION? | YES | SKIN? | INGESTION? | YES |
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HEALTH HAZARDS: (ACUTE AND CHRONIC)

ACCUTE EFFECTS: EXCESSIVE INHALATION OF FUMES FROM MANY METALS CAN CAUSE "METAL FUME FEVER". SYMPTOMS CONSIST OF CHILLS AND FEVER WHICH OCCUR A FEW HOURS AFTER A LARGE EXPOSURE. **LONG-TERM EFFECTS:** HAVE NOT BEEN NOTED. **CHRONIC EFFECTS:** CHRONIC INHALATION OF TIN OXIDE OR FUMES LEADS TO A BENIGN PNEUMOCONIOSIS WITHOUT SYMPTOMS OF INTERFERENCE OF PULMONARY FUNCTIONS.

CARCINOGENICITY: NTP? IARC MONOGRAPHS OSHA REGULATED?
THE LISTED INGREDIENTS HAVE NOT BEEN IDENTIFIED AS SUSPECT CARCINOGENS BY NTP, IARC, OR OSHA.

SIGNS AND SYMPTOMS OF EXPOSURE?

INHALATION: STANNOSIS - A BENIGN PNEUMONOCNOSIS MAY RESULT FROM EXCESSIVE TIN EXPOSURE. PULMONARY FUNCTION IS NOT AFFECTED. INGESTION: TIN IS RELATIVELY NON-TOXIC BY MOUTH, BUT MAY CAUSE FEVER, STOMACH CRAMPS, NAUSEA OR DIARRHEA IN LARGE DOSES.

EMERGENCY AND FIRST AID PROCEDURES:

INGESTION: GIVE SEVERAL GLASSES OF MILK OR WATER. VOMITING MAY OCCUR SPONTANEOUSLY, BUT IT'S NOT NECESSARY TO INDUCE. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.
INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT GIVE OXYGEN.
EYES: WASH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, LIFTING LIDS OCCASIONALLY. SEEK MEDICAL AID.
SKIN: WASH EXPOSED AREA WITH SOAP AND WATER. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.

**SECTION VII
PRECAUTIONS FOR SAFE HANDLING AND USE**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

ANY METHOD WHICH KEEPS DUST TO A MINIMUM IS ACCEPTABLE. VACUUMING IS PREFERRED. USE APPROVED RESPIRATORY PROTECTION IF POSSIBILITY OF DUST/FUME EXPOSURE EXISTS.

WASTE DISPOSAL METHOD:

IF HAZARDOUS UNDER 40 CFR 261, SUBPARTS B AND C, MATERIAL MUST BE TREATED OR DISPOSED IN A FACILITY MEETING THE REQUIREMENTS OF 40 CFR 264 OR 265. IF NON-HAZARDOUS, MATERIAL SHOULD BE DISPOSED IN A FACILITY MEETING THE REQUIREMENTS OF 40 CFR 257. THIS MATERIAL MAY HAVE VALUE ON A RECYCLED BASIS. SPECIAL PROCEDURES: USE OF APPROVED RESPIRATORS IS REQUIRED WHEN ADEQUATE VENTILATION CANNOT BE PROVIDED. WHEN MELTED, THE TEMPERATURE SHOULD BE KEPT AS LOW AS POSSIBLE. GENERAL STORAGE ACCEPTED. AVOID INHALATION OR INGESTION.

**SECTION VIII
CONTROL MEASURES**

RESPIRATORY PROTECTION - (SPECIFY TYPE)

NIOSH / MSHA APPROVED RESPIRATOR FOR TOXIC DUST AND/OR FUMES.

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| <p>VENTILATION:</p> <p>OTHER: USE NIOSH APPROVED RESPIRATORS IF DUST/FUMES EXIST.</p> | <p>LOCAL EXHAUST: REQUIRED FOR MELTING, GRINDING, SCREENING, SOLDERING OR OTHER OPERATIONS WHERE EXCESSIVE EXPOSURES MAY OCCUR.</p> |
| <p>PROTECTIVE GLOVES: AS NEEDED TO PROTECT FROM PHYSICAL HAZARDS</p> | <p>EYE PROTECTION: SAFETY GLASSES IF DUST PARTICLES EXIST</p> |

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:
LOCAL EXHAUST VENTILATION SHOULD BE PROVIDED TO KEEP WORKER'S EXPOSURE WITHIN ALLOWABLE LIMITS DURING WELDING OR GRINDING OPERATIONS.

**SECTION IX
MEDICAL CONDITIONS POSSIBLY AGGRAVATED**

GENERALLY REGARDED AS SAFE. NONE KNOWN.

**SECTION X
SARA TITLE III - SECTION 313 CHEMICAL: NO**