

BOW SOLDER PRODUCTS CO INC -- TIN/LEAD ALLOYS -- 3439-00-255-4566

===== Product Identification =====

Product ID:TIN/LEAD ALLOYS

MSDS Date:09/26/1997

FSC:3439

NIIN:00-255-4566

MSDS Number: CHHMX

=== Responsible Party ===

Company Name:BOW SOLDER PRODUCTS CO INC

Address:1 CROSSMAN ROAD

City:SAYREVILLE

State:NJ

ZIP:08872

Country:US

Info Phone Num:732-316-2100

Emergency Phone Num:732-316-2100/800-53

5-5053(INFOTRAC)

CAGE:52329

=== Contractor Identification ===

Company Name:BOW ELECTRONIC SOLDERS

Address:1 CROSSMAN ROAD

Box:City:SAYREVILLE

State:NJ

ZIP:08872

Country:US

Phone:732-316-2100/ FAX: 732-316-2177

CAGE:52329

===== Composition/Information on Ingredients =====

Ingred Name:TIN

CAS:7440-31-5

RTECS #:XP7320000

Fraction by Wt: 0 - 100%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:2 MG/M3

ACGIH TLV:2 MG/M3; 9596

Ingred Name:LEAD (SARA 313) (CERCLA)

CAS:7439-92-1

RTECS #:

OF7525000  
Fraction by Wt: 0 - 100%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:SEE 1910.1025  
ACGIH TLV:0.05MG/M3, A3; 9596  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

===== Hazards Identification =====

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS UNKNOWN.  
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:TARGET ORGANS:CNS, RESPIRATORY & GI  
TRACTS. ACUTE- OVEREXPOSURE MAY LEAD TO CNS  
DISORDERS CHARACTERIZED  
BY DROWSINESS, SEIZURES, COMA, DEATH. IT SHOULD BE RECOGNIZED THAT  
EXPOSURES OF THIS MAGNITUDE I N AN INDUSTRIAL ENVIRONMENT ARE  
EXTREMELY UNLIKELY. CHRONIC- SYSTEMIC POISONING, MUSCULAR WEAKNESS,  
KIDNEY DYSFUNCTION.  
Explanation of Carcinogenicity:CONTAINS LEAD.  
Effects of Overexposure:WEAKNESS, VOMITING, LOSS OF APPETITE,  
CONVULSION, COMA, IRRITATION, HEADACHE, NAUSEA, CONSTIPATION,  
ANEMIA, INSOMNIA, JOINT AND MUSCLE PAIN, SEIZURES, DEATH, METALL  
IC  
TASTE  
Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING DISEASES  
OF THE BLOOD AND BLOOD FORMING ORGANS, KIDNEYS, NERVOUS SYSTEM AND  
POSSIBLY REPRODUCTIVE SYSTEM

===== First Aid Measures =====

First Aid:CALL A DOCTOR IF SYMPTOMS PERSIST. EYE:IMMEDIATELY FLUSH WITH  
WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. CALL PHYSICIAN. SKIN:WASH  
WITH SOAP & WATER. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN  
IF N EEDED. ORAL:CALL A  
PHYSICIAN/POISON CONTROL CENTER. IF  
CONSCIOUS, DRINK LARGE AMOUNT OF WATER.

===== Fire Fighting Measures =====

Flash Point:NONE  
Lower Limits:NOT RELEVANT  
Upper Limits:NOT RELEVANT  
Extinguishing Media:USE DRY CHEMICAL OR CARBON DIOXIDE ON SURROUNDINF  
FIRE. DO NOT USE WATER ON FIRE WHERE MOLTEN METALS IS PRESENT.  
Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND  
NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL  
FACEPIECE OPERA

TED IN THE POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:MAY FORM TOXIC AND/OR IRRITATING VAPORS.

===== Accidental Release Measures =====

Spill Release Procedures:COLLECT AND USE. IF CONTAMINATED OR IN SMALL PARTICLES, VACUUM OR COLLECT MATERIAL. NEVER USE ANY METHOD WHICH GENERATE DUST. DO NOT USE FORCED AIR FOR CLEANING. WEAR NIOSH-APPROVED DUST MASK IF DUSTY CONDITION.

Neutralizing Agent:NOT RELEVANT

===== Handling and Storage =====

Handling and Storage Precautions:STORE IN DRY PLACE AWAY FROM INCOMPATIBLE MATERIALS. FOOD AND DRINK SHOULD NOT BE CONSUMED IN AREAS WHERE METAL EXPOSURES ARE POSSIBLE.

Other Precautions:READ WARNING LABELS. KEEP OUT OF REACH OF CHILDREN. FOR INDUSTRIAL USE ONLY. DO NOT GENERATE DUST. DO NOT BREATHE DUST OR FUMES. AVOID CONTACT WITH DUST OR FUMES.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:IF ENGINEERING CONTROLS DO NOT MAINTAIN AIRBORNE CONCENTRATIONS TO AN ACCEPTABLE LEVEL, A NIOSH-APPROVED DUST OR FUME RESPIRATOR MUST BE WORN. A PROGRAM SHOULD BE INSTITUTED TO ASSURE COMPLIANCE WITH OSHA STANDARD 29 CFR 1910.134.

Ventilation:USE ADEQUATE GENERAL OR LOCAL EXHAUST VENTILATION TO KEEP FUME OR DUST LEVELS AS LOW AS POSSIBLE.

Protective Gloves:RUBBER RECOMMENDED

Eye Protection:SAFETY GLASSES/GOGGLES RECOMMENDED

Other Protective Equipment:EYEBATH, WASHING FACILITY, SAFETY SHOWER

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING.

Supplemental Safety and Health

===== Physical/Chemical Properties =====

HCC:N1

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text:2372F,1300C

Melt/Freeze Pt:M.P/F.P Text:354F - 594F

Spec Gravity:7.3 - 11.3

Viscosity:NOT RELEVANT

Evaporation Rate & Reference:NOT RELEVANT

Solubility in Water:INSOLUBLE

Appearance and

Odor:SILVER-WHITE METAL

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES  
STRONG ACIDS, STRONG OXIDIZING AGENTS  
Stability Condition to Avoid:NONE  
Hazardous Decomposition Products:TOXIC FUMES OR VAPORS MAY BE FORMED.

===== Disposal Considerations =====

Waste Disposal Methods:HOLD FOR RECYCLING OR DISPOSE OF IN ACCORDANCE  
WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

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