

BOW SOLDER PRODUCTS CO INC -- TIN/LEAD ALLOYS -- 3439-00-273-3722

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

Product ID:TIN/LEAD ALLOYS
MSDS Date:06/01/2000
FSC:3439
NIIN:00-273-3722
Status Code:A
MSDS Number: CLMZJ
=== Responsible Party ===
Company Name:BOW SOLDER PRODUCTS CO INC
Address:1 CROSSMAN ROAD
City:SAYREVILLE
State:NJ
ZIP:08772
Country:US
Info Phone Num:732-316-2100
Emergency Phone Num:800-526
-4577
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
Contract Num:SP0-414-01-Q-XS39
CAGE:52329

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

Ingred Name:TIN
CAS:7440-31-5
RTECS #:XP7320000
Minumum % Wt:0.
Maxumum % Wt:100.
OSHA PEL:2 MG/M3
ACGIH TLV:2 MG/M3

Ingred Name:LEAD
CAS:7439-92-1
RTECS #:OF7525000
Minumum % Wt:0.
Maxum

um % Wt:100.
OSHA PEL:0.05 MG/M3
ACGIH TLV:0.15 MG/M3
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

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

LD50 LC50 Mixture:NONE PROVIDED BY MFR.
Health Hazards Acute and Chronic:ACUTE: SEVERE SHORT-TERM OVEREXPOSURE
MAY LEAD TO CENTRAL NERVOUS SYSTEM DISORDERS. IT SHOULD BE
RECOGNIZED THAT EXPOSURES OF THIS MAGNITUDE IN AN INDUSTRIAL
EXVIRONMENT ARE EXTREMELY UNLIKELY. CHRONI C: PROLONGED
OVEREXPOSURE TO LEAD CAN RESULT IN SYS
TEMIC POISONING, MAY CAUSE
DAMAGE TO THE BLOOD-FORMING, NERVOUS, KIDNEYS, AND REPRODUCTIVE
SYSTEMS. DAMAGE MAY INCLUDE REDUCED FERTILITY IN BOTH MEN AND
WOMEN, DAMAGE TO THE FETUS OF EXPOSED PREGNANT WOMEN, ANEMIA,
MSUCULAR WEAKNESS AND KIDNEY DYSFUNCION.
Explanation of Carcinogenicity:THIS PRODUCT HAS NOT BEEN LISTED AS A
SUSPECT CARCINOGEN BY NTP, IARC OR OSHA
Effects of Overexposure:SYPTOMS OF METALLIC TASTE, ANEMIA, INSOMNIA,
WEAKNESS, CONSTIPATION, ABDOMINAL PAIN, G
ASTROINTESTINAL DISORDERS,
JOINT AND MUSCLE PAIN, AND MUSCULAR WEAKNESS.
Medical Cond Aggravated by Exposure:DISEASES OF THE BLOOD AND BLOOD
FORMING ORGANS, KIDNEY, NERVOUS AND POSSIBLY REPRODUCTIVE SYSTEMS.

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

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

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

Extinguishing Media:USE CO2 OR DRY CHEMICAL ON SURROUNDING FIRE. DO NOT
USE WATER ON FIRE WHERE MOLTEN METAL IS PRESENT
Fire Fighting Procedures:USE NIOSH/MSHA APPROVED SELF CONTAINED
BREATHING APPRATUS AND FULL BODY PROTECTIVE CLOTHING
Unusual Fire/Explosion Hazard:MOLTEN METALS PRODUCE

FUME OR VAPORS THAT
MAY BE TOXIC AND/OR RESPIRATORY IRRITANTS. REACTS VIOLENTLY WITH
OXYDIZING AGENTS.

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

Spill Release Procedures: 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 CLEANUP.

Neutralizing Agent: NONE PROVIDED BY MFR.

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

Handling and Storage Precautions: 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.

Other Precautions: OVERHEATING OF ALLOY CAN PRODUCE METAL FUMES AND
OXIDES. MACHINING OPERATIONS SUCH AS GRINDING, SAWING, OR BUFFING
CAN GENERATE AIRBORN PARTICULATES IN THE WORK AREA.

EXPOSURE LEVELS

INDICATED ARE REL AVANT TO THESE AND OTHER OPERATIONS.

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

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

Ventilation: LOCAL EXHAUST

T VENTILATION IS RCOMMENDED FOR DUST AND/OR
FUME GENERATION OPERATIONS WHERE AIRBORNE EXPOSURES MAY EXCEED
PERMISSIBLE AIR CONCENTRATIONS.

Protective Gloves: RECOMMENDED

Eye Protection: SAFETY GLASSES RECOMMENDED

Other Protective Equipment: GLOVES AND OTHER PROTECTIVE CLOTHING
RECOMMENDED IF SKIN CONTACT IS APPRECIABLE.

Work Hygienic Practices: AVOID INHALATION OR INGESTION. PRACTICE GOOD
HOUSEKEEPING AND PERSONAL HYGIENE PROCEDURES. A SHOWER IS
RECOMMENDED IF SIGNIFICANT DUST EX

POSURE OCCURS.

Supplemental Safety and Health

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.

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

HCC:N1

Boiling Pt:>1300.C, 2372.F

Melt/Freeze Pt:M.P/F.P Text:METAL = 179 TO 312 C

Spec Gravity:7.3 TO 11.3

Solubility in Water:INSOLUBLE

Appearance and Odor:SOLID SILVER-WHITE METAL

=====

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZERS MAY CAUSE VIOLENT REACTION

Hazardous Decomposition Products:AT TEMPERATURES ABOVE THE MELTING POINT, TOXIC FUMES MAY BE EMITTED.

===== Ecological Information =====

Ecological:RQ FOR LEAD IS 1.0 LB.

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

Waste Disposal Methods:DISPOSAL MUST COMPLY WITH FEDERAL, STATE AND

LOACL REGULATIONS. IF HAZARDOUS UNDER 40CFR261, SUBPARTS B & C, MATERIAL MUST BE TREATED OR DISPOSED IN A FACILITY MEETING THE REQUIREMENTS OF 40CFR254 OR 2 65. IF NON-HAZARDOUS, MATERIAL SHOULD BE DISPOSED IN A FACILITY MEETING THE REQUIREMENTS OF 40CFR257

===== MSDS Transport Information =====

Transport Information:REGULATED BY DOT? NO.

===== Regulatory Information =====

SARA Title III Information:THIS PRODUCT CONT

AINS THE FOLLOWING

CHEMICALS SUBJECT TO THE RELEASE REQUIREMENTS OF SECTION 302:
CERCLA STATUTARY RQ FOR LEAD= 1.0 LB. NOTE: NO REPRTING OF THE
SOLID FORM IS REQUIRED IF THE DIAMETER OF THE PIECES OF THE SOLID
METAL RELEASED IS 100 MICROMETER (0.004 INCHES) OR GREATER.

===== Other Information =====

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department

of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.