

BOW ELECTRONIC SOLDERS -- TIN/LEAD SILVER ALLOYS -- 3439-01-278-0518

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

Product ID:TIN/LEAD SILVER ALLOYS
MSDS Date:06/01/2000
FSC:3439
NIIN:01-278-0518
Status Code:A
MSDS Number: CLCKG
=== Responsible Party ===
Company Name:BOW ELECTRONIC SOLDERS
Address:1 CROSSMAN ROAD
City:SAYREVILLE
State:NJ
ZIP:08872
Country:US
Info Phone Num:732-316-2100
Emergency Phone Num:800-535-5053
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
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.
Maxumum % Wt:100.
OSHA PEL:0.05

MG/M3
ACGIH TLV:0.15 MG/M3
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:SILVER
CAS:7440-22-4
RTECS #:VW3500000
< Wt:20.
OSHA PEL:0.01 MG/M3
ACGIH TLV:0.1 MG/M3
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

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

LD50 LC50 Mixture:NO DATA PROVIDED BY MANUFACTURER
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Health Hazards Acute and Chronic:ACUTE: SEVERE SHORT-TERM OVEREXPOSURE
MAY LEAD TO CENTRAL NERVOUS SYSTEM DISORDERS. CH
RONIC: PROLONGED
OVERXPOSURE TO LEAD CAN RESULT IN SYSTEMIC POISONING. MAY CAUSE
DAMAGE TO THE BLOOD-FORMING, NERV OUS, KIDNEYS AND REPRODUCTIVE
SYSTEMS. DAMAGE MAY INCLUDE REDUCED FERTILITY IN BOTH MEN & WOMEN,
DAMAGE TO THE FETUS OF EXPOSED PREGNANT WOMEN, ANEMIA, MUSCULAR
WEAKNESS AND KIDNEY DYSFUNCTION.
Explanation of Carcinogenicity:NO DATA PROVIDED BY MANUFACTURER.
Effects of Overexposure:ACUTE:DROWSINESS, SEIZURES, COMA AND DEATH.
CHRONIC:METALLIC TASTE, ANEMIA, IN
SOMNIA, WEAKNESS, CONSTIPATION,
ABDOMINAL PAIN, GASTROINTESTINAL DISORDERS, JOINT AND MUSCLE PAIN
AND MUSCULAR WEAKNESS AN D 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, MU SCULAR WEAKNESS AND KIDNEY
DYSFUNCTION.
Medical Cond Aggravated by Exposure:DISEASES OF THE BLOOD AND BLOOD
FORMING ORGANS, KIDNEYS, NERVOUS AND POS
SIBLY 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.
EYE: FLUSH EYES WITH WATER FOR 15 MINUTES, CALL A PHYSICIAN.
INGESTION: INGEST LARGE QUANTITIES OF WATER, CALL A PHYSICIAN.

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

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Flash Point:=148.9C, 300.F

CORE

Extinguishing Media:USE CO2 OR DRY CHEMICAL ON SURROUNDING FIRE

Fire Fighting Procedures:USE NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS AND FULL BODY PROTECTIVE CLOTHING.

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

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

Spill Release Procedures:ANY METH

OD 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 CLEA NING.

Neutralizing Agent:NO DATA PROVIDED BY MANUFACTURER.

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

Handling and Storage Precautions:HANDLING: NONE. STORAGE: GENERAL STORAGE PROCEDURES ACCEPTABLE.

Other Precautions:SPECIAL PRECAUTIONS, PROCEDURES, LABEL INSTRUCTIONS:

SPECIAL ATTENTION IS DRAWN TO THE REQUIREMENTS OF THE OSHA LEAD STANDARD (1910.1025) AND RESPIRATOR STANDARD (1910.134) SHOULD AIRBORNE EXPOSURES E XCEED THE OSHA ACTION LEVEL OR PEL.

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

Respiratory Protection:WHERE AIRBORN EXPOSURES MAY EXCEED OSHA/ACGIH PERMISSIBLE AIR CONCENTRATIONS, THE MINIMUM RESPIRATORY PROTECTION RECOMMENDED IS A NEGATIVE PRESSURE AIR PURIFYING RESPIRATOR WITH CARTRIDGES THA

T ARE NI OSH/MSHA APPROVED AGAINST DUST, FUMES AND MISTS HAVING A TWA NOT LESS THAN 0/05 MG/CU M.

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

Protective Gloves:GLOVES RECOMMENDED IF SKIN CONTACT IS APPRECIABLE

Eye Protection:SAFETY GLASSES

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

Work Hygienic Practices:AVOID INHA

LATION OR INGESTION. PRACTICE GOOD
HOUSEKEEPING AND PERSONAL HYGIENE PROCEDURES. A SHOWER IS
RECOMMENDED IF SIGNIFICANT DUST EXPOSURE OCCURS.

Supplemental Safety and Health
NO DATA PROVIDED BY MANUFACTURER

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

HCC:N1
Boiling Pt:>1300.C, 2372.F
Melt/Freeze Pt:M.P/F.P Text:179-312C
Spec Gravity:7.3 - 11.3
Solubility in Water:INSOLUBLE
Appearance and Odor:SILVER-WHITE METAL

===== Stability and Reactivity Data
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Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZERS MAY CAUSE VIOLENT REACTION
Hazardous Decomposition Products:AT TEMPERATURES ABOVE THE MELTING
POINT, TOXIC FUMES OR VAPORS MAY BE EMITTED.

===== Toxicological Information =====

Toxicological Information:NO DATA PROVIDED BY MANUFACTURER.

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

Ecological:NO DATA PROVIDED BY MANUFACTURER.

===== Disposal Co
nsiderations =====

Waste Disposal Methods:DISPOSER MUST COMPLY WITH FEDERAL, STATE AND
LOCAL DISPOSAL OR DISCHARGE LAWS. IF HAZARDOUS UNDER 40 CFR 261,
SUBPARTS B AND C, MATERIALS MUST BE TREATED OR DISPOSED IN A
FACILITY MEETING THE REQUIREMENTS OF 40 CFR 254 OR 25. IF
NON-HAZARDOUS, MATERIAL SHOULD BE DISPOSED IN A FACILITY MEETING
THE REQUIREMENTS OF 40 CFR 257

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

Transport Information:N

O DATA PROVIDED BY MANUFACTURER.

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

SARA Title III Information:SECTION 313: LEAD, CAS# 7439-92-1, 0-100%;
SILVER, CAS# 7440-22-4,