

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

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Product Identification  
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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:8

00-535-5053

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

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Composition/Information on Ingredients  
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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:0.0

5 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  
&lt; Wt:20.  
OSHA PEL:0.01 MG/M3  
ACGIH TLV:0.1 MG/M3  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

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===== 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. C  
H  
RONIC: PROLONGED  
OVERXPOSURE TO LEAD CAN RESULT IN SYSTEMIC POISONING. MAY CAUSE  
DAMAGE TO THE BLOOD-FORMING, NERVOUS, 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, I  
NSOMNIA, WEAKNESS, CONSTIPATION,  
ABDOMINAL PAIN, GASTROINTESTINAL DISORDERS, JOINT AND MUSCLE PAIN  
AND MUSCULAR WEAKNESS AND 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, MUSCULAR WEAKNESS AND KIDNEY  
DYSFUNCTION.

Medical Cond Aggravated by Exposure:DISEASES OF THE BLOOD AND BLOOD  
FORMING ORGANS, KIDNEYS, NERVOUS AND POSSIBLY REPRODUCTIVE SYSTEMS.

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===== 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.

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===== 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 MET

HOD 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.

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 EXCEED 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 THAT

ARE NIOSH/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 INH

ALATION 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 =====

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZERS MAY CAUSE VIOLENT REACTION

Hazardous Decomposition Products:AT TEMERATURES 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 C  
onsiderations =====

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:

NO DATA PROVIDED BY MANUFACTURER.

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