

BOW SOLDER PRODUCTS CO. -- SOLDER, TIN ALLOY -- 3439-01-007-5491
===== Product Identification =====

Product ID:SOLDER, TIN ALLOY
MSDS Date:09/01/1986
FSC:3439
NIIN:01-007-5491
MSDS Number: BTCMS
=== Responsible Party ===
Company Name:BOW SOLDER PRODUCTS CO.
Address:900 HOBSON STREET
Box:488
City:UNION
State:NJ
ZIP:07083
Country:US
Info Phone Num:(201) 686-6040
Emergency Phone Num:(201) 686-6040
Pr
eparer's Name:DGSC-SSH
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: 63.5%
Other REC Limits:NONE SPECIFIED
OSHA PEL:2 MG/M3
ACGIH TLV:2 MG/M3; 9394

Ingred Name:LEAD (SARA III)
CAS:7439-92-1
RTECS #:OF75250

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Fraction by Wt: 35.53%
Other REC Limits:NONE SPECIFIED
OSHA PEL:SEE 1910.1025
ACGIH TLV:0.15 MG/M3,DUST;9394
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:ANTIMONY (SARA III)
CAS:7440-36-0
RTECS #:CC4025000
Fraction by Wt: 0.5%
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.5 MG/M3
ACGIH TLV:0.5 MG (SB)/M3; 9394
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:BISMUTH
CAS:7440-69-9
RTECS #:EB2600000
Fraction by Wt: 0.25%
Other REC Limits:NONE SPECIFIED

Ingred Name:COPPER (SARA III)
CAS:
7440-50-8
RTECS #:GL5325000
Fraction by Wt: 0.08%
Other REC Limits:1 MG(CU)/M3 (DUST)
OSHA PEL:0.1MG/M3 FUME/1 DUST
ACGIH TLV:0.2 MG/M3 FUME; 9394
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:ARSENIC (SARA III)
CAS:7440-38-2
RTECS #:CG0525000
Fraction by Wt: 0.03%
Other REC Limits:NONE SPECIFIED
OSHA PEL:SEE 1910.1018
ACGIH TLV:0.01 MG/M3, A1; 9394
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:IRON
CAS:7439-89-6
RTECS #:NO4565500
Fraction by Wt: 0.02%
Other REC Limits:NONE SPECIFIED

OSHA PEL:5 MG/M3
ACGIH TLV:10 MG/M3 AS FE2O3

Ingred Name:ALUMINUM (SARA III)
CAS:7429-90-5
RTECS #:BD0330000
Fraction by Wt: 0.005%
Other REC Limits:NONE SPECIFIED
OSHA PEL:15MG/M3 DUST/5 FUME
ACGIH TLV:10MG/M3 DUST; 9394

Ingred Name:ZINC (SARA III)
CAS:7440-66-6
RTECS #:ZG8600000
Fraction by Wt: 0.005%
Other REC Limits:NONE SPECIFIED
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:ROSIN ACID
CAS:8050-09-7
Other REC Limits:NONE SPECIFIED

Ingred Name:CADMIUM (SARA III)
CAS:7440-43-9
RTECS #:EU9800000
Fraction by Wt: 0.08%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.2 MG/M3 DUST; Z-2
ACGIH TLV:0.01 MG/M3 DUST;9394
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10 LBS

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===== Hazards Identification =====
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LD50 LC50 Mixture:NONE SPECIFIED
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:SKIN: BURNS. INGESTION: LEAD POISONING
& METALLIC TASTE IN MOUTH. INHALATION:

ABDOMINAL PAIN, NAUSEA,
JOINT OR MUSCLE PAIN, WEAKNESS, LOSS OF WEIGHT, MENTAL CONFUSION, &
LEAD-LINE ON GUMS.

Explanation of Carcinogenicity:LEAD & ARSENIC ARE SUSPECTED HUMAN
CARCINOGENS.

Effects of Overexposure:SKIN: BURNS. INGESTION: LEAD POISONING &
METALLIC TASTE IN MOUTH. INHALATION: ABDOMINAL PAIN, NAUSEA, JOINT
OR MUSCLE PAIN, WEAKNESS, LOSS OF WEIGHT, MENTAL CONFUSION, OR
LEAD-LINE ON GUMS.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:INHALATION: REMOVE TO FRESH AIR. SKIN: DON'T ATTEMPT TO
REMOVE ROSIN FROM SECOND OR THIRD DEGREE BURNS. USE SOLVENTS TO
REMOVE ROSIN FROM MINOR FIRST DEGREE BURNS. INGESTION: OBTAIN
MEDICAL ATTENTION IN ALL CASES.

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

Flash Point:>300F,>149C

Lower Limits:NOT GIVEN

Upper Limits:NOT GIVEN

Extinguishing Media:NONFLAMMABLE. USE MEDIA SUITABLE F
OR SURROUNDING
FIRE.

Fire Fighting Procedures:WEAR SELF-CONTAINED RESPIRATORY SYSTEM.

Unusual Fire/Explosion Hazard:MODERATE HAZARD WHEN HIGH CONCENTRATION
OF VERY FINE METALLIC DUST IS EXPOSED TO HEAT. MOLTEN METAL MAY
REACT VIOLENTLY WITH WATER.

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

Spill Release Procedures:VACUUM OR WET SWEEP USING A RESPIRATOR &
PROTECTIVE CLOTHING.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Hand
ling and Storage =====

Handling and Storage Precautions:STORE IN A CLOSED CONTAINER. AVOID
INHALATION OF DUSTS OR FUMES. DON'T SMOKE OR EXPOSE FOOD TO DUST.
KEEP AREA CLEAN.

Other Precautions:NONE SPECIFIED BY MANUFACTURER.

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

Respiratory Protection:IF VENTILATION DOES NOT MAINTAIN INHALATION
EXOSURES BELOW PEL (TLV), USE NIOSH/MSHA APPROVED RESPIRATOR AS PER
CURRENT 29 CFR 1910.134, INSTRUCTION

S/WARNINGS AND NIOSH RESPIRATOR
SELECTION.

Ventilation:LOCAL EXHAUST: FUME HOOD OVER AREA. MECHANICAL: 200 FT/MIN.
AIR VELOCITY INTO HOOD OPENING TO KEEP 1700F,>927

Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN

Vapor Pres:0.000016

Vapor Density:NOT GIVEN

Spec Gravity:7.3-11.3

Evaporation Rate & Reference:NOT GIVEN

Solubility in Water:INSOLUBLE

Appearance and Odor:METALLIC COLOR, SOLID, GRAY TO SHINY SILVERY GRAY.

Percent Volatiles by Volume:NIL

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

Stability Indicator/Materials to Avoid:YES

ACIDS, BASES, OXIDIZERS, & WATER

Stability Condition to Avoid:EXTREME TEMPERATURES

Hazardous Decomposition Products:TOXIC FUMES

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

Waste Disposal Methods:SCRAP DRIPPINGS & DROSSES SHOULD BE STORED IN A
CLOSED CONTAINER & RETURNED TO A LEAD RECYCLER. FOLLOW FEDERAL,
STATE, & LOCAL REGULATIONS REGARDING DISPOSAL.

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