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

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

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 00 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

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: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.
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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.
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Spill Release Procedures:VACUUM OR WET SWEEP USING A RESPIRATOR & PROTECTIVE CLOTHING. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.
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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.
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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 & amp; 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 Da

Stability Indicator/Materials to Avoid:YES ACIDS, BASES, OXIDIZERS, & WATER Stability Condition to Avoid:EXTREME TEMPERATURES Hazardous Decomposition Products:TOXIC FUMES

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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