

LIBERTY PRECISION METALS INC -- TIN LEAD SOLDER -- 3439-00-273-1637

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MSDS Safety Information
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FSC: 3439
NIIN: 00-273-1637
MSDS Date: 09/18/1997
MSDS Num: CFKDF
Tech Review: 09/18/1997
Product ID: TIN LEAD SOLDER
Responsible Party
Cage: 4Z608
Name: LIBERTY PRECISION METALS INC
Address: 5 COHASSET LN
City: CHERRY HILL NJ 08003 US
Info Phone Number: 609-751-0202 (OUT OF SERVICE)
Emergency Phone Number: 609-751-0202 (OUT OF SERVICE)
Preparer's Name: -VBA

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Preparer Co. when other than Responsible Party Co.
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Cage: 4Z608
Assigned Ind: N
Name: LIBERTY PRECISION METALS INC
Address: 13 DORY DR
Box: 827
City: MARLTON NJ 08210

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Contractor Summary
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Cage: 4Z608
Name: LIBERTY PRECISION METALS INC
Address: 13 DORY DR
Box: 827
City: MARLTON NJ 08210 US
Phone: 609-463-8960 / FAX: 609-463-9151

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Item Description Information
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Item Manager: S9G
Item Name: SOLDER, TIN ALLOY
Specification Number: QQ-S-571
Unit of Issue: SL
Quantitative Expression: 00000000005LB
UI Container Qty: B

Type of Container: SPOOL

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Ingredients
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Cas: 7439-92-1
RTECS #: OF7525000
Name: LEAD (SARA III)
% by Wt: 47.535
Other REC Limits: NONE SPECIFIED
OSHA PEL: 0.05 MG/M3;1910.1025
ACGIH TLV: 0.15 MG/M3;DUST 9192
EPA Rpt Qty: 1 LB
DOT Rpt Qty: 1 LB
Ozone Depleting Chemical: N

Cas: 7440-31-5
RTECS #: XP7320000
Name: TIN
% by Wt: 51.1
Other REC Limits: NONE SPECIFIED
OSHA PEL: 2 MG/M3
ACGIH TLV: 2 MG/M3; 9192
Ozone Depleting Chemical: N

Cas: 7440-69-9
RTECS #: EB2600000
Name: BISMUTH
% by Wt: 0.25
Other REC Limits: NONE SPECIFIED
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED

Cas: 7440-36-0
RTECS #: CC4025000
Name: ANTIMONY (SARA III)
% by Wt: 0.05
Other REC Limits: NONE SPECIFIED
OSHA PEL: 0.5 MG/M3
ACGIH TLV: 0.5 MG SB/M3; 9192
EPA Rpt Qty: 5000 LBS
DOT Rpt Qty: 5000 LBS
Ozone Depleting Chemical: N

Cas: 7440-50-8
RTECS #: GL5325000
Name: COPPER (SARA 313) (CERCLA)
% by Wt: 0.08
Other REC Limits: NONE RECOMMENDED
OSHA PEL: 0.1MG/M3 FUME/1 DUST
ACGIH TLV: 0.2 MG/M3 FUME; 9495
EPA Rpt Qty: 5000 LBS
DOT Rpt Qty: 5000 LBS
Ozone Depleting Chemical: N

Cas: 7440-38-2
RTECS #: CG0525000
Name: ARSENIC (SARA 313) (CERCLA)
% by Wt: 0.025
Other REC Limits: NONE RECOMMENDED
OSHA PEL: SEE 1910.1018

ACGIH TLV: 0.01 MG/M3, A1; 9495
 EPA Rpt Qty: 1 LB
 DOT Rpt Qty: 1 LB
 Ozone Depleting Chemical: N

 Cas: 7439-89-6
 RTECS #: NO4565500
 Name: IRON
 % by Wt: 0.02
 Other REC Limits: NONE RECOMMENDED
 OSHA PEL: NOT ESTABLISHED
 ACGIH TLV: NOT ESTABLISHED
 Ozone Depleting Chemical: N

 Cas: 7429-90-5
 RTECS #: BD0330000
 Name: ALUMINUM (SARA 313)
 % by Wt: 0.005
 Other REC Limits: NONE RECOMMENDED
 OSHA PEL: 15 MG/M3 DUST
 ACGIH TLV: 10 MG/M3 DUST; 9495
 Ozone Depleting Chemical: N

 Cas: 7440-66-6
 RTECS #: ZG8600000
 Name: ZINC (SARA 313) (CERCLA)
 % by Wt: 0.005
 Other REC Limits: NONE RECOMMENDED
 OSHA PEL: NOT ESTABLISHED
 ACGIH TLV: NOT ESTABLISHED
 EPA Rpt Qty: 1000 LBS
 DOT Rpt Qty: 1000 LBS
 Ozone Depleting Chemical: N

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 Health Hazards Data
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LD50 LC50 Mixture: ORAL LD50 (RAT) IS UNKNOWN
 Route Of Entry Inds - Inhalation: NO
 Skin: NO
 Ingestion: NO
 Carcinogenicity Inds - NTP: NO
 IARC: YES
 OSHA: NO

Effects of Exposure: ACUTE:SWEETISH METALLIC TASTE, BURNING IN THE MOUTH,
 SEVERE THIRST, VOMITING, DIARRHEA. IF MOLTEN, CAN BURN EYES AND SKIN.
 CHRONIC:ANOREXIA,"LEAD LINE" ON GUM MARGIN, NAUSEA, SEVERE ABDOMINAL
 PAIN, VI SUAL DISTURBANCES, PARALYSIS. CHRONIC:ANEMIA, CNS, BRAIN.

Explanation Of Carcinogenicity: IARC CLASSIFIES LEAD AND SOME LEAD
 COMPOUNDS AS POSSIBLY CARCINOGENIC TO HUMANS. NOT LISTED BY NTP OR OSHA.

Signs And Symptions Of Overexposure: LEAD: EXPOSURE TO HIGH LEVELS OF
 AIRBORNE OF INGESTED LEAD MAY PRODUCE SYMPTOMS OF ANEMIA, INSOMNIA,
 WEAKNESS, CONSTIPATION, NAUSEA AND ABDOMINAL PAIN. OVEREXPOSURE MAY
 CAUSE DAMAGE TO BLOOD-FORMING, NERVOUS, REPRODUCTIVE, INTESTINAL AND
 URINARY SYSTEMS.

Medical Cond Aggravated By Exposure: DISEASES OF THE BLOOD AND
 BLOOD-FORMING ORGANS, KIDNEY, NERVOUS AND POSSIBLY REPRODUCTIVE SYSTEMS.

First Aid: INHALATION:LEAD-EXCESSIVE OVEREXPOSURE MAY RESULT IN AN ACUTE
 OR CHRONIC ILLNESS. IF SYMPTOMS ARE PRESENT, THE INDIVIDUAL SHOULD BE
 REMOVED FROM EXPOSURE AND A PHYSICIAN CONSULTED. INGESTION:CALL A PH
 YSICIAN OR POISON CONTROL CENTER AT ONCE. SKIN:FOR HOT METAL BURNS,

EXPOSED AREA SHOULD BE COOLED WITH WATER AND MEDICAL ATTENTION SOUGHT.
EYES: FLUSH WITH WATER, CONTACT A PHYSICIAN.

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Handling and Disposal
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Spill Release Procedures: AVOID INHALATION OF SOLDER FUME OR DUST.
VACUUMING OR WASHING IS RECOMMENDED. DO NOT USE DRY SWEEPING OR
COMPRESSED AIR CLEANING SYSTEMS.

Neutralizing Agent: NA

Waste Disposal Methods: SCRAP OR WASTE SOLDER SHOULD BE RECYCLED OR STORED
IN SEALED CONTAINERS FOR LATER DISPOSAL. MUST BE IN ACCORDANCE WITH
FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

Handling And Storage Precautions: FOOD AND DRINK SHOULD NOT BE CONSUMED OF
TOBACCO PRODUCTS USED, NOR COSMETICS APPLIED IN AREAS WHERE SOLDER MAY
BE USED. ALWAYS WASH HANDS AFTER USE.

Other Precautions: SINCE EMPTY CONTAINERS MAY RETAIN PRODUCT RESIDUES, ALL
LABELED HAZARD PRECAUTIONS MUST BE OBSERVED. FOR INDUSTRIAL USE ONLY.
KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY.

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Fire and Explosion Hazard Information
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Flash Point Text: NA

Autoignition Temp Text: NA

Lower Limits: NA

Upper Limits: NA

Extinguishing Media: NA

Fire Fighting Procedures: USE NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING
APPARATUS AND FULL PROTECTIVE CLOTHING IF INVOLVED IN A FIRE.

Unusual Fire/Explosion Hazard: MODERATE IN THE FORM OF DUST WHEN EXPOSED
TO HEAT OR FLAME. WHEN HEATED TO HIGH TEMPERATURES, MAY EMIT HIGHLY
TOXIC METAL FUMES.

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Control Measures
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Respiratory Protection: A NIOSH/MSHA APPROVED DUST/FUME RESPIRATOR SHOULD
BE WORN WHERE AIRBORNE EXPOSURES MAY EXCEED OSHA/ACGIH PERMISSABLE AIR
CONCENTRATIONS.

Ventilation: PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST)
VENTILATION TO MAINTAIN EXPOSURE BELOW PERMISSABLE LEVELS.

Protective Gloves: PROTECTIVE GLOVES SHOULD BE WORN.

Eye Protection: SAFETY GLASSES AND/OR FACE PROTECTION.

Other Protective Equipment: WORK CLOTHES SHOULD BE WORN AND LAUNDERED IN
ACCORDANCE WITH CURRENT OSHA LEAD STANDARDS.

Work Hygienic Practices: AFTER HANDLING SOLID SOLDER WIRE, BAR, ETC., WASH
THOROUGHLY WITH SOAP AND WATER. DO NOT EAT/DRINK AROUND THIS PRODUCT.

Supplemental Safety and Health: MFR IS OUT OF BUSINESS AND IS UNLISTED.
INFORMATION PRESENTED HEREIN IS ACCURATE AND RELIABLE TO THE BEST OF OUR
KNOWLEDGE AND BELIEF BUT IS NOT GUARANTEED TO BE SO. IT IS THE USER'S
RESPONSIBILITY TO TAKE ALL SAFETY PRECAUTIONS AS MAY BE NECESSARY. WE
HEREBY DISCLAIM ALL LIABILITY WITH RESPECT TO IT'S USE.

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Physical/Chemical Properties
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HCC: N1

B.P. Text: NA

M.P/F.P Text: NA

Decomp Text: NA

Vapor Pres: NA

Vapor Density: NA

Spec Gravity: NA

PH: NA
Viscosity: NA
Evaporation Rate & Reference: NA
Solubility in Water: INSOLUBLE
Appearance and Odor: SILVER-GRAY METAL, ODORLESS, VARIOUS SHAPES AND SIZES.
Percent Volatiles by Volume: NA
Corrosion Rate: NA

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Reactivity Data
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Stability Indicator: YES
Stability Condition To Avoid: NA
Materials To Avoid: OXIDING MATERIALS, ACIDS, HYDROGEN PEROXIDE > 52%
Hazardous Decomposition Products: LEAD OXIDE AND ANTIMONY OXIDE FUME MAY BE EVOLVED AT TEMPERATURES GREATER THAN 1000 F (538 C).
Hazardous Polymerization Indicator: NO
Conditions To Avoid Polymerization: NA

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Toxicological Information
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Ecological Information
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MSDS Transport Information
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Regulatory Information
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Other Information
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Transportation Information
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Responsible Party Code: 4Z608
Trans ID NC: 64722
Product ID: TIN LEAD SOLDER
MSDS Prepared Date: 09/18/1997
Review Date: 09/18/1997
Article W/O MSDS: N
Net Unit Weight: 5 LB
Multiple KIT Number: 0
Unit Of Issue: SL
Container QTY: B
Type Of Container: SPOOL

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Detail DOT Information
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DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

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Detail IMO Information
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IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION

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Detail IATA Information
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IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
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Detail AFI Information

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AFI Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
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HAZCOM Label

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Product ID: TIN LEAD SOLDER
Cage: 4Z608
Company Name: LIBERTY PRECISION METALS INC
Street: 13 DORY DR
PO Box: 827
City: MARLTON NJ
Zipcode: 08210 US
Health Emergency Phone: 609-751-0202 (OUT OF SERVICE)
Date Of Label Review: 09/18/1997
Label Date: 09/18/1997
Year Procured: 1996
Chronic Hazard IND: Y
Signal Word: CAUTION
Health Hazard: Slight
Contact Hazard: None
Fire Hazard: None
Reactivity Hazard: None

Hazard And Precautions: ACUTE:SWEETISH METALLIC TASTE, BURNING IN THE MOUTH, SEVERE THIRST, VOMITING, DIARRHEA. IF MOLTEN, CAN BURN EYES AND SKIN. CHRONIC:ANOREXIA,"LEAD LINE" ON GUM MARGIN, NAUSEA, SEVERE ABDOMINAL PAIN, VI SUAL DISTURBANCES, PARALYSIS. CHRONIC:ANEMIA, CNS, BRAIN. FOOD AND DRINK SHOULD NOT BE CONSUMED OF TOBACCO PRODUCTS USED, NOR COSMETICS APPLIED IN AREAS WHERE SOLDER MAY BE USED. ALWAYS WASH HANDS AFT ER USE. FIRST AID: INHALATION:LEAD-EXCESSIVE OVEREXPOSURE MAY RESULT IN AN ACUTE OR CHRONIC ILLNESS. IF SYMPTOMS ARE PRESENT, THE INDIVIDUAL SHOULD BE REMOVED FROM EXPOSURE AND A PHYSICIAN CONSULTED. INGESTION:CALL A PHYSICIAN OR POISON CONTROL CENTE

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