

KESTER SOLDER COMPANY DIV OF L -- LEAD SOLDER, SOLDER ALLOYS CONTAINING LEAD

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MSDS Safety Information
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FSC: 3439
NIIN: 01-258-5345
MSDS Date: 05/20/1993
MSDS Num: BVBMJ
Product ID: LEAD SOLDER, SOLDER ALLOYS CONTAINING LEAD
MFN: 01
Responsible Party
Cage: 09185
Name: KESTER SOLDER COMPANY DIV OF LITTON SYSTEMS INC
Address: 515 E TOUHY
City: DES PLAINES IL 60018-2675
Info Phone Number: 708-297-1600
Emergency Phone Number: 800-424-9300 (CHEMTREC)
Preparer's Name: D. BERNIER
Review Ind: Y
Published: Y

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Contractor Summary
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Cage: 99167
Name: HAMILTON SUNDSTRAND CORP
Address: 4747 HARRISON AVE
Box: 7002
City: ROCKFORD IL 61125-7002
Phone: 815-226-6000
Cage: 09185
Name: KESTER SOLDER COMPANY
Address: 515 E. TOUHY AVENUE
City: DES PLAINES IL 60018
Phone: 800-424-9300
Cage: 75297
Name: KESTER SOLDER DIVISION OF LITTON SYSTEMS, INC.
Address: 515 E. TOUHY AVENUE
City: DES PLAINES IL 60018
Phone: 847-297-1600

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Item Description Information
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Item Manager: S9G
Item Name: SOLDER, LEAD ALLOY
Specification Number: UNKNOWN
Unit of Issue: EA
UI Container Qty: UNKNOWN
Type of Container: UNKNOWN

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Ingredients
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Cas: 7439-92-1
RTECS #: OF7525000
Name: LEAD (SARA III)
% Wt: SEE #8
Other REC Limits: NONE RECOMMENDED
OSHA PEL: SEE 1910.1025

ACGIH TLV: 0.15 MG/M3,DUST;9394
EPA Rpt Qty: 1 LB
DOT Rpt Qty: 1 LB

Cas: 7440-31-5
RTECS #: XP7320000
Name: TIN
% Wt: SEE #8
Other REC Limits: NONE RECOMMENDED
OSHA PEL: 2 MG/M3
ACGIH TLV: 2 MG/M3; 9394

Cas: 7440-22-4
RTECS #: VW3500000
Name: SILVER (SARA III)
% Wt: SEE #8
Other REC Limits: NONE RECOMMENDED
OSHA PEL: 0.01 MG/M3
ACGIH TLV: 0.1 MG/M3; 9394
EPA Rpt Qty: 1 LB
DOT Rpt Qty: 1 LB

Cas: 7440-69-9
RTECS #: EB2600000
Name: BISMUTH
% Wt: SEE #8
Other REC Limits: NONE RECOMMENDED
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED

Cas: 7440-36-0
RTECS #: CC4025000
Name: ANTIMONY (SARA III)
% Wt: SEE #8
Other REC Limits: NONE RECOMMENDED
OSHA PEL: 0.5 MG/M3
ACGIH TLV: 0.5 MG (SB)/M3; 9394
EPA Rpt Qty: 5000 LBS
DOT Rpt Qty: 5000 LBS

Cas: 7440-50-8
RTECS #: GL5325000
Name: COPPER (SARA III)
% Wt: SEE #8
Other REC Limits: NONE RECOMMENDED
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

Cas: 7440-74-6
RTECS #: NL1050000
Name: INDIUM
% Wt: SEE #8
Other REC Limits: NONE RECOMMENDED
OSHA PEL: 0.1 MG/M3
ACGIH TLV: 0.1 MG/M3; 9394

Name: PER MSDS:COMPOSITION AND WEIGHT % OF SOLDER ALLOYS VARIES WIDELY AND CAN

BE DETERMINED BY PRODUCT LABEL.

Other REC Limits: NONE RECOMMENDED

OSHA PEL: NOT ESTABLISHED

ACGIH TLV: NOT ESTABLISHED
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Health Hazards Data

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LD50 LC50 Mixture: NOT ESTIMATED

Route Of Entry Inds - Inhalation: YES

Skin: NO

Ingestion: YES

Carcinogenicity Inds - NTP: NO

IARC: YES

OSHA: NO

Effects of Exposure: ACUTE:INHAL:OVEREXPOSURE TO LEAD MAY LEAD TO CNS DISORDERS. EXPOUSURE OF THIS MAGNITUDE ARE UNLIKELY. SKIN/EYE/SKIN ABSORPTION:NONE. INGEST:NOT LIKELY TO OCCUR BUT WOULD HAVE SIMILAR EFFECTS AS INHAL. CHRONIC:REPEATED INHAL OR INGEST OF LEA D CAN RESULT IN SYSTEMATIC POISONING.

Explanation Of Carcinogenicity: PER MSDS:PB & PB CMPDS HAVE BEEN PLACED IN CLASS B2 PROBABLY CAR TO HUMAN BY USEPA,CLASS 2B BY IARC POSSIBLY CAR TO HUMA

Signs And Symptoms Of Overexposure: CNS DISORDERS CHARACTERIZED BY DROWSINESS,SEIZURES, COMA, AND DEATH.

Medical Cond Aggravated By Exposure: PRE-EXISTING CONDITIONS OR DISEASES OF BLOOD & BLOOD-FORMING ORGANS,KIDNEYS,NERVES & POSSIBLY REPRODUCTIVE SYS.TARGET ORGANS:INGEST OF LEAD METAL CAN AFFECT KIDNEYS,GI,REPRODUCTIVE/NEUROLOGICAL SYS.

First Aid: SEEK MED ATTN FOR FURTHER TREATEMENT. OBSERVATION & SUPORT IF NEEDED. EYE/SKIN:FOR BURNS FLUSH IMMED W/COOL WATER. INHAL:REMOVE PERSON FROM EXPOUSRE TO FUMES. INGEST:IF THOUGHT TO BE OVEREXPOSED THE PERSON SHOULD HAVE A BLOOD LEAD ANALYSIS DONE.
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Handling and Disposal

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Spill Release Procedures: MOLTED SOLDER WILL SOLIDIFY ON COOLING & CAN BE SCRAPED UP. USE CAUTION TO AVOID BREATHING FUMES IF GAS TORCH IS USED TO CUT UP LARGE PIECES.

Neutralizing Agent: NONE SPECIFIED BY MFG.

Waste Disposal Methods: SOLDER CAN BE RECLAIMED. EMPTY CONTAINERS MAY CONTAIN PRODUCT RESIDUE. OBSERVE ALL LABEL PRECAUTIONS.

Handling And Storage Precautions: STORE AWAY FROM SOURCES OF SULFUR. DO NOT PLACE FLUX CORED SOLDER INTO HOT SOLDER POT BECAUSE FLUX MAY IGNITE. AVOID BREATH SMOKE/FUMES FROM SOLDERING

Other Precautions: USE OF STRONG ACID FLUXES MAY RESULT IN LIBERATION OFTOXIC LEAD CHLORIDE FUMES. EMPTY CONTAINERS MAY CONTAIN PRODUCT REIDUE.OBSERV ALL LABEL PRECAUTIONS.
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Fire and Explosion Hazard Information

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Extinguishing Media: NONE SPECIFIED BY MFG. HOWEVER USE APPROPRIATE EXTINGUISHING MEDIA FOR SURROUNDING FIRE.

Fire Fighting Procedures: WEAR SELF-CONTAINED BREATHING APPARATUS IF THIS MATERIAL IS IN THE VICINITY OF A FIRE.

Unusual Fire/Explosion Hazard: FLUX IN CORED SOLDER MAY IGNITE WHEN THE SOLDER METLS IN A FIRE. MELTED SOLDER >1000F WILL LIBERATE HIGHLY TOXIC LEAD AND/OR ANTIMONY FUMES.

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Control Measures
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Respiratory Protection: USUALLY NOT REQUIRED. WHEN VENTILATION IS NOT SUFFICIENT TO REMOVE FUMES FROM THE BREATHING ZONE, A CARTRIDGE TYPE RESPIRATOR SHOULD BE WORN.

Ventilation: PROVIDE ADEQUATE EXHAUST VENTILATION (GEN &/OR LOCAL) TO MEET TLV REQUIREMENTS.

Protective Gloves: USUALLY NOT REQUIRED.

Eye Protection: GOGGLES OR FACESHIELDS WHEN SOLDERING.

Other Protective Equipment: NONE.

Work Hygienic Practices: WASH HANDS WELL AFT HANDLING SOLDER CONTAINING LEAD BEFORE EAT/SMOKE.

Supplemental Safety and Health: IF SOLDER CONTAINS LEAD THESE PRECAUTIONS ARE APPLICABLE. PRODUCT CONTAINS PB WHICH IS KNOWN TO STATE OF CA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

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Physical/Chemical Properties
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HCC: N1

Spec Gravity: >1

Solubility in Water: 0.

Appearance and Odor: SILVER-GRAY METAL IN BAR, WIRE, RIBBON OR PREFORMED SHAPES.

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Reactivity Data
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Stability Indicator: YES

Stability Condition To Avoid: NONE.

Materials To Avoid: STRONG ACIDS, STRONG OXIDIZERS.

Hazardous Decomposition Products: NO LEAD OR ANTIMONY ARE DETECTED IN FUMES FROM SOLDERING BELOW 1000F (537C).

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization: NOT RELEVANT.

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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 Cage: 09185

Trans ID NO: 118735

Product ID: LEAD SOLDER, SOLDER ALLOYS CONTAINING LEAD
MSDS Prepared Date: 05/20/1993
Review Date: 09/15/1994
MFN: 1
Net Unit Weight: UNKNOWN
Multiple KIT Number: 0
Review IND: Y
Unit Of Issue: EA
Container QTY: UNKNOWN
Type Of Container: UNKNOWN

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Detail DOT Information
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DOT PSN Code: ZZZ
DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
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Detail IMO Information
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IMO PSN Code: ZZZ
IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION
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Detail IATA Information
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IATA PSN Code: ZZZ
IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
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Detail AFI Information
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AFI PSN Code: ZZZ
AFI Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
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HAZCOM Label
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Product ID: LEAD SOLDER, SOLDER ALLOYS CONTAINING LEAD
Cage: 09185
Company Name: KESTER SOLDER COMPANY
Street: 515 E. TOUHY AVENUE
City: DES PLAINES IL
Zipcode: 60018
Health Emergency Phone: 800-424-9300 (CHEMTREC)
Label Required IND: Y
Date Of Label Review: 09/15/1994
Status Code: C
Label Date: 09/15/1994
Year Procured: 1994
Origination Code: F
Eye Protection IND: YES
Signal Word: WARNING
Respiratory Protection IND: YES
Health Hazard: Moderate
Contact Hazard: Slight
Fire Hazard: None
Reactivity Hazard: None
Hazard And Precautions: ACUTE:INHAL:OVEREXPOSURE TO LEAD MAY LEAD TO CNS
DISORDERS. EXPOUSRE OF THIS MAGNITUDE ARE UNLIKELY. SKIN/EYE/SKIN
ABSORPTION:NONE. INGEST:NOT LIKELY TO OCCUR BUT WOULD HAVE SIMILAR EFFECTS
AS INHAL. CHRONIC:REPEATED INHAL OR INGEST OF LEAD CAN RESULT IN

SYSTEMATIC POISONING. AVOID BREATH SMOKE/FUMES FROM SOLDERING.TARGET
ORGANS:INGEST OF LEAD METAL CAN AFFECT KIDNEY/GI/REPRODUCT/NEURO
SYS.1ST AID:SEEK MED ATTN FOR FURTHER TREATMENT. OBSERVATION & SUPPORT IF
NEEDED. EYE/SKIN: FOR BURNS FLUSH IMMED W/COOL WATER. INHAL:REMOVE PERSON
FROM EXPOUSURE TO FUMES.INGEST:IF THOUGHT TO BE OVEREXPOSED THE PERSON
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