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Product ID:SOLDER ALLOYS CONTAINING LEAD MSDS Date:12/11/1998 FSC:3439 NIIN:01-307-6200 Status Code:A **MSDS Number: CLJJR** === Responsible Party === Company Name: KESTER SOLDER DIVISION OF LITTON SYSTEMS, INC. Address:515 E. TOUHY AVENUE City:DES PLAINES State:IL ZIP: 60018 Country:US Info Phone Num:847-297-1600 Emergency Phone Num: (800) 424-9300 Resp. Party Other MSDS Num.: FORM NUMBER: 1F-RD-G-02-0 Preparer's Name: D. BERNIER Chemtrec Ind/Phone:(800)424-9300 CAGE:75297 === Contractor Identification === Company Name: KESTER SOLDER DIVISION OF LITTON SYSTEMS, INC. Address:515 E. TOUHY AVENUE Box:City:DES PLAINES State:IL ZIP:60018 Country:US Phone:847-297-1600

Ingred Name:LEAD CAS:7

CAGE:75297

439-92-1 RTECS #:OF7525000 Fraction by Wt: VARIES OSHA PEL:0.05 MG/M3 ACGIH TLV:0.15 MG/M3 EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:TIN CAS:7440-31-5 RTECS #:XP7320000 Fraction by Wt: VARIES OSHA PEL:2 MG/M3 ACGIH TLV:2 MG/M3

Ingred Name:SILVER CAS:7440-22-4 RTECS #:VW3500000 Fraction by Wt: VARIES OSHA PEL:0.01 MG/M3 ACGIH TLV:0.1 MG/M3 EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:BISMUTH CAS:7440-69-9 RTECS #:EB2600000 Fraction by Wt: VARIES

Ingred Name:ANTIMONY CAS:7440-36-0 RTECS # :CC4025000 Fraction by Wt: VARIES OSHA PEL:0.5 MG/M3 ACGIH TLV:0.5 MG/M3 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:COPPER CAS:7440-50-8 RTECS #:GL5325000 Fraction by Wt: VARIES OSHA PEL:1 MG/M3 ACGIH TLV:0.2 MG.M3 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:INDIUM CAS:7440-74-6 RTECS #:NL1050000 Fraction by Wt: VARIES ACGIH TLV:0.1 MG/M3

nogenicity:NTP:UNKNOWN IARC:YES

Health Hazards Acute and Chronic:TARGET ORGANS: INGESTION OF LEAD METAL CAN AFFECT KIDNEYS, GASTROINTESTINAL, REPRODUCTIVE AND NEUROLOGICAL SYSTEMS. ACUTE: INHALATION: OVER EXPOSURE TO LEAD MAY RESULT IN CENTRAL NERVOUS SYSTEM DISORD ERS CHARACTERIZED BY DROWSINESS, SEIZURES, COMA AND DEATH. . EXPOSURE OF THIS MAGNITUDE IS UNLIKELY. SKIN: NONE. EYE: NONE. INGESTION: NOT LIKELY TO OCCUR, BUT WOULD HAVE SIMILAR EFFECTS AS INHALATION . CHRO

NIC: REPEATED INHALATION

OR INGESTION OF LEAD CAN RESULT IN SYSTEMIC POISONING.

 Explanation of Carcinogenicity:LEAD & ITS COMPOUNDS HAVE BEEN PLACED IN CLASS 2B, PROBABLY CARCINOGENIC TO HUMANS BY EPA. IARC HAS PLACED LEAD & ITS COMPOUNDS IN CLASS 2B, POSSIBLY CARCINOGENIC TO HUMANS.
 Effects of Overexposure:INHALATION: OVER EXPOSURE TO LEAD MAY RESULT IN CENTRAL NERVOUS SYSTEM DISORDERS CHARACTERIZED BY DROWSINESS, SEIZURES, COMA AND DEATH.

Medical Cond Aggravated by Exposure

:LEAD DISEASES OF THE BLOOD AND

BLOOD-FORMING ORGANS, KIDNEYS, NERVES AND POSSIBLY REPRODUCTIVE SYSTEMS.

First Aid:EYE: FOR BURNS FLUSH IMMEDIATELY WITH COOL WATER. SKIN: FOR BURNS FLUSH IMMEDIATELY WITH COOL WATER. INHALATION: REMOVE PERSON FROM EXPOSURE TO FUMES. INGESTION: IF THOUGHT TO BE OVEREXPOSED, THER PER SON SHOULD HAVE A BLOOD LEAD ANALYSIS DONE.

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Flash Point Method:TOC Flash Point:NA Autoignition Temp:Autoignition Temp Text:NA Lower Limits:NA Upper Limits:NA Extinguishing Media:WATER, CARBON DIOXIDE, ALCOHOL FOAM, DRY CHEMICAL 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 MELTS IN A FIRE.

Spill Rel

ease Procedures:MELTED SOLDER WILL SOLIDIFY ON COOLING AND CAN BE SCRAPED UP. USE CAUTION TO AVOID BREATHING FUMES IF A GAS TORCH IS USED TO CUT UP LARGE PIECES. Neutralizing Agent:NONE PROVIDED BY MFR

Handling and Storage Precautions:STORE AWAY FROM SOURCES OF SULFUR. WASH HANDS AFTER HANDLING SOLDER CONTAINING LEAD BEFORE EATING/SMOKING. AVOID BREATHING SMOKE/FUMES GENERATED DURING SOLDERING. DO NOT PLACE

FLUX CORED SOLDER INTO H OT SOLDER POT AS FLUX MAY IGNITE. USE OF STRONG ACID FLUXES MAY LIBERATE TOXIC LEAD CHLORIDE FUMES.

Other Precautions: CAUTION: EMPTY CONTAINERS MAY CONTAIN PRODUCT RESIDUE. OBSERVE ALL LABEL PRECAUTIONS.

Respiratory Protection:WHEN VENTILATION IS NOT SUFFICIENT TO REMOVE FUMES FROM THE BREATHING ZONE, A NIOSH APPROVED RESPIRATOR SHOULD BE WORN. Ventilation:PROVIDE ADEQUATE EXHAUST

VENTILATION (GENERAL AND/OR LOCAL)

TO MEET EXPOSURE REQUIREMENTS. LOCAL EXHAUST VENTILATION PREFERRED TO MINIMIZE SMOKE/FUMES.

Protective Gloves: USUALLY NOT REQUIRED

Eye Protection: WHEN SOLDERING, USE GOGGLES OR FACE SHIELD

Other Protective Equipment:NONE

Work Hygienic Practices: WASH HANDS THOROUGHLY AFTER HANDLING SOLDER CONTAINING LEAD BEFORE EATING OR SMOKING.

Supplemental Safety and Health

HCC:N1 **Boiling Pt:B** .P. Text:NA Melt/Freeze Pt:M.P/F.P Text:NE Decomp Temp:Decomp Text:NONE PROVIDED BY MFR Vapor Pres:NA Vapor Density:NA Spec Gravity:>1(WATER=1 @ 25 DEG C) pH:NA Viscosity:NONE PROVIDED BY MFR Evaporation Rate & amp; Reference:NA Solubility in Water:0 Appearance and Odor:SILVER-GRAY METAL IN BAR, WIRE, RIBBON, OR PREFORMED SHAPES, NO ODOR Percent Volatiles by Volume:NA Corrosion Rate:NONE PROVIDED BY MFR

Stability Indicator/

Materials to Avoid:YES STRONG ACIDS, STRONG OXIDIZERS Stability Condition to Avoid:NONE Hazardous Decomposition Products:NO LEAD OR ANTIMONY ARE DETECTED IN FUMES FROM SOLDERING BELOW 1000 DEG F (537 DEG C). MELTED SOLDER ABOVE 1000F WILL LIBERATE HIGHLY TOXIC LEAD AND OR ANTIMONY FUMES
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Toxicological Information:NOT PROVIDED
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Ecological:NOT PROVIDED
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Waste Disposal Methods:SOLDER CAN BE RECLAIMED
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Transport Information:NOT PROVIDED
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<ul> <li>SARA Title III Information:LEAD, SILVER, ANTIMONY ARE SUBJECT TO REPORTING REQUIREMENTS OF SECTION 313 OF SARA.</li> <li>Federal Regulatory Information:NOT PROVIDED</li> <li>State Regulatory Information:PRODUCT CONTAINS L</li> <li>EAD WHICH IS KNOWN TO</li> <li>STATE OF CALIFORNIA TO CAUSE CANCER &amp; BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.</li> </ul>
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