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KESTER SOLDER DIV,LITTON SYSTEMS INC -- SOLDER ALLOYS CONTANING LEAD 3439-01-146-6953

Product ID:SOLDER ALLOYS CONTANING LEAD MSDS Date:05/20/1993 FSC:3439 NIIN:01-146-6953 MSDS Number: BXVQZ === Responsible Party === Company Name: KESTER SOLDER DIV, LITTON SYSTEMS INC Address:515 E TOUHY City: DES PLAINES State:IL ZIP:60018-2675 Country:US Info Phone Num:708-297 -1600 Emergency Phone Num:708-297-1600 Preparer's Name: D. BERNIER CAGE:75297 === Contractor Identification === Company Name: GARDINER SOLDER CO, DIV OF GARDINER METAL CO Address:4820 S CAMPBELL AVE Box:City:CHICAGO State:IL ZIP:60632-1416 Country:US Phone:312-847-0100/800-424-9300(CHEMTREC) CAGE:56244 Company Name: GARDINER SOLDER COMPANY DIV GARDINER METAL CO Address:4820 S CAMPBELL AVE Box:City:CHICAGO State:IL ZIP:60632-1494 Country:US Phone:312-847-0100 CHEMTREC AFTER HOURS CAGE:84311 Compan

y 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 CAGE:75297

Ingred Name:LEAD (SARA III) CAS:7439-92-1 RTECS #:OF7525000 Fraction by 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

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

Ingred Name:SILVER (SARA III) CAS:7440-22-4 RTECS #:VW3500000 Fraction by 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

Ingred Name:BISMUTH CAS:7440-69-9 RTECS #:EB2600000 Fraction by Wt: SEE #8% Other REC Limits:NONE RECOMMENDED

Ingred Name:ANTIMONY (SARA III) CAS:7440-36-0 RTECS #:CC4025000 Fraction by Wt: SEE #8% Other REC L imits: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

Ingred Name:COPPER (SARA III) CAS:7440-50-8 RTECS #:GL5325000 Fraction by 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

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

Ingr

ed Name:COMPOSITION & WT % OF SOLDER ALLOYS VARIES WIDELY & CAN BE DETERMINED BY PRODUCT LABEL. RTECS #:99999992Z Other REC Limits:NONE RECOMMENDED

LD50 LC50 Mixture:PRODUCT'S LD50 (ORAL RAT) WAS NOT STATED Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO Health Hazards Acute and Chronic:ACUTE-PRIMARAY EXPOSURE DURING SOLDERING IS TO FLUX FUMES. INHAL:OVER

EXPOSURE TO LEAD MAY LEAD TO CNS DISORDERS. EXPOSURE OF THIS MAGNITUDE ARE UNLIKELY. SKIN/EYE:NONE. INGEST:NOT LIKELY TO OCCUR, BU T WOULD HAVE SIMILAR EFFECTS AS INHALATION. CHRONIC-REPEATED INHAL/INGEST OF LEAD CAN RESULT IN SYSTEMIC POISONING.

Explanation of Carcinogenicity:CARCINOGENICITY AS PER MFG'S MSDS. SEE IARC REPORT FOR DETAILS.

Effects of Overexposure:CNS DISORDERS CHARACTERIZED BY DROWSINESS, SEIZURES, COMA AND DEATH. REPEATED INHAL/INGEST OF LEAD CAN RESULT IN SYSTEMIC POISONING. Medical Cond Aggravated by Exposure:PRE-EXISTING CONDITIONS OR DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS, KIDNEYS, NERVES AND POSSIBLY REPRODUCTIVE ORGANS.

First Aid:SEEK MED ASSISTANCE FOR FURTHER TREATMENT, OBSERVATION AND SUPPORT IF NEEDED. EYE/SKIN:FOR BURNS FLUSH IMMEDIATELY W/COOL WATER. INHAL:REMOVE PERSON FROM EXPOSURE TO FUMES. INGEST:IF THOUGHT TO BE OVE REXPOSED, THE PERSON SHOULD HAVE A BLOOD LEAD ANALYSIS DONE.

Extinguishing Media:MFR GAVE NO INFORMATION ON MSDS. 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 Release Procedures:MELTED SOLD ER WILL SOLIDITY ON COOLING AND CAN BE SCRAPED UP. USE CAUTION TO AVID BREATHAING FUMES IF A GAS TORCH IS USED TO CUT UP LARGE PIECES. Neutralizing Agent:MFR GAVE NO INFORMATION ON MSDS.

Handling and Storage Precautions:STORE AWAY FROM SOURCES SULFUR. AVOID BREATHING SMOKE/FUMES GENERATED DURING SOLDERING.
Other Precautions:DO NOT PLACE FLUX CORED SOLDER INTO A HOT SOLDER POT BECAUSE THE FLUX MAY IGNITE. USE OF
STRONG ACID FLUXES MAY RESULT IN LIBERATION OF TOXIC LEAD CHLORIDE FUMES. EMPTY CONTAINERS MAY CONTAIN PRODUCT RESIDUE. OBSERVE ALL LABEL PRECAUTIONS.

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 (GENERAL &/OR LOCAL) TO MEET TLV REQUIREMEN TS.

Protective Gloves: USUALLY NOT REQUIRED. Eye Protection: WHEN SOLDERING USE GOGGLES OR FACESHIELD Other Protective Equipment:NONE. Work Hygienic Practices: WASH HANDS THOROUGHLY AFTER HANDLING SOLDER CONTAINING LEAD BEFORE EATING OR SMOKING. Supplemental Safety and Health LEAD IS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. HCC:N1

NRC/State Lic Num:NONE Spec Gravity:>1, Solubility in Water: INSOLUBLE Appearance and Odor:SILVER-GRAY METAL IN BAR, WIRE, RIBBON OR PREFORMED SHAPES.

Stability Indicator/Materials to Avoid:YES STRONG ACID, STRONG OXIDIZERS. Stability Condition to Avoid:NONE. Hazardous Decomposition Products:NO LEAD OR ANTIMONY FUMES ARE DETECTED FROM SOLDERING BELOW 1000F (537C) Conditions to Avoid Polymerization:WILL NOT OCCUR.

========= Disposal Considerations

Waste Disposal Methods:SOLDER CAN BE RECLAIMED.

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