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KESTER SOLDER DIVISION OF LITTON SYSTEMS, INC. -- SOLDER ALLOYS CONTAINING LEAD -- 3439-01-307-6200

============= Product Identification =================

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

CAGE:75297

======= Composition/Information on Ingredients ========

Ingred Name:LEAD

CAS:7

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

============= Hazards Identification ========================

LD50 LC50 Mixture: 7.0 G/KG ORAL RAT FOR ANTIMONY

Reports of Carci

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.

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.

======== Accidental Release Measures ===========

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 ========================== 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. ====== Exposure Controls/Personal Protection ======== 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 ========= Physical/Chemical Properties =========== 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) AM:Hq Viscosity: NONE PROVIDED BY MFR Evaporation Rate & Department 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 and Reactivity Data ==========

Stability Indicator/

ABOVE 1000F WILL LIBERATE HIGHLY TOXIC LEAD AND OR ANTIMONY FUME
========= Toxicological Information ==========
Toxicological Information:NOT PROVIDED
======== Ecological Information ==========
Ecological:NOT PROVIDED
======== Disposal Considerations ===========
Waste Disposal Methods:SOLDER CAN BE RECLAIMED
======== MSDS Transport Information ==========
Transport Information:NOT PROVIDED
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SARA Title III Information:LEAD, SILVER, ANTIMONY ARE SUBJECT TO

Hazardous Decomposition Products: NO LEAD OR ANTIMONY ARE DETECTED IN

FUMES FROM SOLDERING BELOW 1000 DEG F (537 DEG C). MELTED SOLDER

Materials to Avoid:YES

STRONG ACIDS, STRONG OXIDIZERS

Stability Condition to Avoid:NONE

REPORTING REQUIREMENTS OF SECTION 313 OF SARA.
Federal Regulatory Information:NOT PROVIDED
State Regulatory Information:PRODUCT CONTAINS L
EAD WHICH IS KNOWN TO
STATE OF CALIFORNIA TO CAUSE CANCER & BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

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