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KESTER SOLDER DIV,LITTON SYSTEMS INC -- SOLDER ALLOYS CONTAINING LEAD 3439-01-039-0064

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

Product ID:SOLDER ALLOYS CONTAINING LEAD

MSDS Date: 10/15/1996

FSC:3439

NIIN:01-039-0064

MSDS Number: CCMSJ === 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

CAGE:75297

=== Contractor Identification ===

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

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 Ingredien

Ingred Name:LEAD (SARA 313) (CERCLA)

CAS:7439-92-1

RTECS #:OF7525000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:SEE 1910.1025

ACGIH TLV:0.05MG/M3, A3; 9596

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:TIN CAS:7440-31-5

RTECS #:XP7320000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:2 MG/M3

ACGIH TLV:2 MG/M3; 9596

Ingred Name: SILVER (SARA 313) (CERCLA)

CAS:7440-22-4

RTECS #:VW3500000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:0.01 MG/M3

ACGIH TLV:0.1 MG/M3; 9596

EPA Rpt Qty:1 L

В

DOT Rpt Qty:1 LB

Ingred Name:BISMUTH

CAS:7440-69-9

RTECS #:EB2600000

Other REC Limits: NONE RECOMMENDED

Ingred Name: ANTIMONY (SARA 313) (CERCLA)

CAS:7440-36-0

RTECS #:CC4025000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:0.5 MG/M3

ACGIH TLV:0.5 MG (SB)/M3; 9596

EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name: COPPER (SARA 313) (CERCLA)

CAS:7440-50-8

RTECS #:GL5325000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:0.1MG/M3 FUME/1 DUST

ACGIH TLV:0.2 MG/M3 FUME; 9596

EPA Rpt Qty:5000 LBS

DOT Rp

t Qty:5000 LBS

Ingred Name:INDIUM CAS:7440-74-6 RTECS #:NL1050000 Other REC Limits:NONE RECOMMENDED OSHA PEL:0.1 MG/M3 ACGIH TLV:0.1 MG/M3; 9596

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO

Health Hazards Acute and Chronic:PRIMARY EXPOSURE DURING SOLDERING IS TO FLUX FUMES. INGESTION OF LEAD METAL CAN AFFECT KIDNEYS,

GASTROINTESTINAL, REPRODUCTIVE AND

NEUROLOGICAL SYSTEMS. OVER

EXPOSURE TO LEAD MAY RESULT IN CENTRAL NER VOUS SYSTEM DISORDERS CHARACTERIZED BY DROWSINESS, SEIZURES, COMA AND DEATH.

Explanation of Carcinogenicity:LEAD IS CLASSIFIED IARC-2B,EPA-B2. Effects of Overexposure:INHALATION: DROWSINESS, SEIZURES, COMA.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING DISEASES OF THE BLOOD OR BLOOD-FORMING ORGANS, KIDNEYS, NERVES AND REPRODUCTIVE SYSTEM MAY BE AT INCREASED RISK FROM EXPOSURE.

===== First Aid Measures ===========

First Aid:SKIN:REMOVE CONTAMINATED CLOTHING;WASH WITH COOL WATER.EYES:FLUSH WITH COOL WATER FOR 15 MINUTES.INHAL:REMOVE TO FRESH AIR.GIVE OXYGEN OR ARTIFICIAL RESPIRATION IF NEEDED.INGEST:DO NOT INDUCE VOMITING .GET PROMPT QUALIFIED MEDICAL ATTENTION.HAVE BLOOD ANALYZED FOR LEAD.

============= Fire Fighting Measures ========================

Flash Point:NONE Lower Limits:NOT GIVEN Upper Limits:NOT GIVEN Extinguishing Med

ia:USE MEDIA APPROPRIATE FOR SURROUNDING FIRE. Fire Fighting Procedures: USE A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT. Unusual Fire/Explosion Hazard: MELTED SOLDER ABOVE 1000F EMITS TOXIC LEAD AND ANTIMONY FUMES.FLUX CORED SOLDER MAY IGNITE WHEN SOLDER MELTS IN FIRE. ======== Accidental Release Measures ============ Spill Release Procedures: MELTED SOLDER WILL SOLIDIFY AND CAN BE SCRAPED UP.USE RESPIRATORY PROTECTION IF A GAS TORCH IS US ED TO CUT UP LARGE PIECES. Neutralizing Agent: NOT APPLICABLE. ============= Handling and Storage ========================== Handling and Storage Precautions: STORE AWAY FROM SOURCES OF SULFUR. USE OF STRONG ACID FLUXES MAY RESULT IN LIBERATION OF TOXIC LEAD CHLORIDE FUMES. Other Precautions: AVOID BREATHING VAPORS. AVOID SKIN AND EYE CONTACT. DO NOT PLACE FLUX CORED SOLDER IN A HOT SOLDER POT BECAUSE THE FLUX MAY IGNITE. ====== Exposure Controls/Personal Protec Respiratory Protection: WHERE ENVIRONMENTAL CONTROLS ARE LACKING OR IN ENCLOSED SPACES USE A NIOSH/MSHA APPROVED RESPIRATOR FOR ORGANIC VAPORS. Ventilation:LOCAL VENTILATION AT THE WORKSITE;MECHANICAL(GENERAL) VENTILATION TO MAINTAIN TLV/PEL. Protective Gloves: NOT NEEDED IN NORMAL SERVICE. Eye Protection: SOLDERING GOGGLES, FACE SHIELD. Other Protective Equipment: PROTECTIVE CLOTHING, AS NEEDED. PROVIDE A LOCAL EYE WASH STATION AND SAFETY SHOWER. Work Hygienic Prac tices:WASH HANDS AFTER HANDLING SOLDER CONTAINNG LEAD BEFORE EATING OR SMOKING. Supplemental Safety and Health TO CHOOSE THE PROPER WELDING LENS, FIRST CHOOSE THE LENS WHICH BLOCKS

OUT THE RAYS; THEN USE THE NEXT LOWEST FILTER.

========= Physical/Chemical Properties ===========

HCC:N1

Boiling Pt:B.P. Text:NOT GIVEN Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN Decomp Temp:Decomp Text:NOT GIVEN

Vapor Pres:NOT GIVEN Vapor Density: NOT GIVEN

Spec Gravity:> 1

Evaporation Rate & amp

; Reference:NOT GIVEN Solubility in Water:INSOLUBLE Appearance and Odor:SILVER-GRAY METAL BAR,WIRE,RIBBON OR PREFORMED SHAPES, NO ODOR Percent Volatiles by Volume:NONE

Stability Indicator/Materials to Avoid:YES STRONG ACIDS, STRONG OXIDIZERS. Stability Condition to Avoid:HEAT ABOVE 1000F/537C.

======== Stability and Reactivity Data ===========

Hazardous Decomposition Products:LEAD,ANTIMONY(>1000F).STRONG ACIDS FLUXES MAY LIBERATE LEAD CHLORIDE FUMES.

=== Disposal Considerations ==========

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH FEDERAL,STATE AND LOCAL REGULATIONS.

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