

KESTER SOLDER COMPANY DIV OF LITTON SYSTEMS INC -- SOLDER ALLOYS CONTAINING LEAD  
-- 3439-01-019-9100

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

Product ID:SOLDER ALLOYS CONTAINING LEAD

MSDS Date:06/01/1992

FSC:3439

NIIN:01-019-9100

MSDS Number: BNMPH

=== Responsible Party ===

Company Name:KESTER SOLDER COMPANY DIV OF 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

C

AGE:09185

=== Contractor Identification ===

Company Name:KESTER SOLDER COMPANY

Address:515 E. TOUHY AVENUE

Box:City:DES PLAINES

State:IL

ZIP:60018

Country:US

Phone:800-424-9300

CAGE:09185

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 (SARA III)

CAS:7439-92-1

RTECS #:OF7525000

Other REC L

imits:NONE SPECIFIED  
OSHA PEL:0.05 MG/M3;1910.1025  
ACGIH TLV:0.15 MG/M3;DUST 9192  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:TIN  
CAS:7440-31-5  
RTECS #:XP7320000  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:2 MG/M3  
ACGIH TLV:2 MG/M3; 9192

Ingred Name:SILVER (SARA III)  
CAS:7440-22-4  
RTECS #:VW3500000  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:0.01 MG/M3  
ACGIH TLV:0.1 MG/M3; 9192  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:BISMUTH  
CAS:7440-69-9  
RTECS #:EB2600000  
Other REC Limits:NONE SPECIFIED

Ingred Name:ANTIMONY (SARA III)  
CAS:7440-36-0  
RTECS #:CC4025000  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:0.5 MG/M3  
ACGIH TLV:0.5 MG SB/M3; 9192  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:COPPER (SARA III)  
CAS:7440-50-8  
RTECS #:GL5325000  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:0.1MG/M3 FUME/1 DUST  
ACGIH TLV:0.2MG/M3 FUME; 9192  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:INDIUM  
CAS:7440-74-6  
RTECS #:NL1050000  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:0.1 MG/M3  
ACGIH TLV:0.

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:INGESTION OF LEAD METAL CAN AFFECT  
KIDNEYS, GASTROINTESTINAL, REPRODUCTIVE AND NEUROLOGICAL SYSTEMS.  
INHALATION- OVER EXPOSURE TO LEAD MAY LEAD TO CNS DISORDERS.  
Effects of Overexposure:INHALATION- DROWSINESS, SEIZURES, COMA AND  
DEATH. EXPOSURE OF THIS MAGNITUDE ARE UNLIKELY.  
Medical Condition Aggravated by Exposure:PRE-EXISTING CONDITIONS OR DISEASES  
OF THE BLOOD AND BLOOD-FORMING ORGANS, KIDNEYS, NERVES AND POSSIBLY  
REPRODUCTIVE SYSTEM.

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

First Aid:EYES- 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,  
THE PERSON SHOULD HAVE A  
BLOOD LEAD ANALYSIS DONE.

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

Fire Fighting Procedures:USE NIOSH-APPROVED SELF-CONTAINED BREATHING  
APPARATUS IN CASE OF TOXIC LEAD FUMES.  
Unusual Fire/Explosion Hazard:FLUX IN CORED SOLDER MAY IGNITE WHEN THE  
SOLDER MELTS IN A FIRE.

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

Spill Release 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

===== Handling and Storage =====

Handling and Storage Precautions:STORE AWAY FROM SOURCES OF SULFUR.  
WASH HANDS AFTER HANDLING SOLDER CONTAINING LEAD. AVOID BREATHING  
FUMES DURING SOLDERING.  
Other Precautions:NONE

===== Exposure Controls/Personal Protection =====

Respiratory Protection:USUALLY NOT REQUIRED. WHEN VENTILATION IS NOT  
SUFFICIENT TO REMOVE

OVE FUMES FROM THE BREATHING ZONE, A CARTRIDGE  
TYPE RESPIRATOR SHOULD BE WORN.  
Ventilation:PROVIDE ADEQUATE EXHAUST VENTILATION TO MEET TLV  
REQUIREMENTS.  
Protective Gloves:NONE NORMALLY REQUIRED.  
Eye Protection:WHEN SOLDERING, USE GOGGLE.  
Other Protective Equipment:USE FACE SHIELD IF NEEDED.  
Work Hygienic Practices:WASH HANDS AFTER HANDLING THIS MATERIAL.  
Supplemental Safety and Health  
NONE

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

HCC:N1  
Spec Gravity:>1  
Solu  
bility in Water:INSOLUBLE  
Appearance and Odor:SILVER-GRAY METAL IN BAR, WIRE, RIBBON OR PREFORMED  
SHAPES.

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

Stability Indicator/Materials to Avoid:YES  
STRONG ACID, STRONG OXIDIZERS.  
Stability Condition to Avoid:NONE

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

Waste Disposal Methods:SOLDER CAN BE RECLAIMED.

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