

KESTER SOLDER DIV,LITTON SYSTEMS INC -- SN 63 -- 3439-01-233-7463

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

Product ID:SN 63

MSDS Date:12/12/1988

FSC:3439

NIIN:01-233-7463

MSDS Number: BPYLY

=== 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:312-699-5594

Emergency Phone Num:312-699-5594

CAGE:7

5297

=== 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:TIN

CAS:7440-31-5

RTECS #:XP7320000

Fraction by Wt: 63.00%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:2 MG/M3

ACGIH TLV:2 MG/M3; 9293

Ingred Name:LEAD (SARA III)

CAS:7439-92-1

RTECS #:OF7525000

Fraction by W

t: 36.65%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.05 MG/M3;1910.1025  
ACGIH TLV:0.15 MG/M3;DUST 9293  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:ANTIMONY (SARA III)  
CAS:7440-36-0  
RTECS #:CC4025000  
Fraction by Wt: 0.35%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.5 MG/M3  
ACGIH TLV:0.5 MG SB/M3; 9293  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

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

LD50 LC50 Mixture:TLV FOR LEAD IS 0.15 MG/M3.  
Routes of Entry: Inhalation:YES  
Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:UNKNOWN IARC:UNKNOWN OSHA:NO  
Health Hazards Acute and Chronic:ACUTE- FLUX FUMES MAY CAUSE PULMONARY IRRITATION & LUNG DAMAGE. INHALATION OR INGESTION MAY CAUSE NAUSEA, HEADACHE, ABDOMINAL DISCOMFORT, JOINT & MUSCLE PAINS. CHRONIC-EFFECTS KIDNEYS, GASTROINTESTINAL & NERVOUS SYSTEMS.  
Explanation of Carcinogenicity:THIS PRODUCT CONTAINS LEAD WHICH CAN CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. MAY BE CARCINOGENIC  
T  
O HUMAN.  
Effects of Overexposure:FLUX FUMES MAY CAUSE PULMONARY IRRITATION & LUNG DAMAGE. INHALATION OR INGESTION MAY CAUSE NAUSEA, HEADACHE, ABDOMINAL DISCOMFORT, JOINT & MUSCLE PAINS. LONG TERM OVER EXPOSURE EFFECTS KIDNEYS, GASTRO INTESTINAL & NERVOUS SYSTEMS.  
Medical Cond Aggravated by Exposure:DISEASES OF THE BLOOD AND BLOOD FORMING ORGANS, KIDNES, NERVOUS AND POSSIBLY REPRODUCTIVE SYSTEMS

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

First Aid:GET M

EDICAL CARE. EYES: FLUSH WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. SKIN: FOR BURNS, COOL WITH COLD WATER. INHALATION: REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. INGESTION: GET MEDICAL HELP IMMEDIATELY. BLOOD LEAD LEVEL, RENAL FUNCTION, GASTROINTESTINAL AND NEUROLOGICAL SYMPTOMS SHOULD BE EVALUATED.

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

Flash Point: NONE

Extinguishing Media: DRY SAND, DRY CHEMICAL. DO NOT USE WATER ON FIRE WHERE

MOLTEN METALS IS PRESENT.

Fire Fighting Procedures: WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard: SOLDER ALLOYS MAY EMIT TOXIC FUMES IN A FIRE. FLUX IN CORED SOLDER WIRE OR PASTE MAY BURN IF SOLDERING IS DONE WITH A FLAME.

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

Spill Release Procedures: COLLECT AND USE. IF CONTAMINATED OR IN SMALL

PARTICLES, VACUUM OR COLLECT MATERIAL. NEVER USE ANY METHOD WHICH GENERATE DUST. DO NOT USE FORCED AIR FOR CLEANING. WEAR NIOSH-APPROVED DUST MASK IF DUSTY CONDITION.

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

Handling and Storage Precautions: STORAGE- KEEP AWAY FROM STRONG OXIDIZERS.

Other Precautions: KEEP OUT OF REACH OF CHILDREN. FOR INDUSTRIAL USE ONLY. DO NOT TAKE INTERNALLY. WASH THOROUGHLY AFTER HANDLING. USE OF STRONG ACID FLUXES MAY RESULT IN THE EMISSION OF TOXIC LEAD FUMES DURING SOLDERING.

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

Respiratory Protection: REQUIRED IF TLV'S ARE NOT BEING MAINTAINED. USE NIOSH APPROVED RESPIRATOR FOR EITHER ORGANIC VAPORS, DUST/FUME (HIGH EFFICIENCY FILTERS) OR BOTH IF TLVS ARE EXCEEDED.

Ventilation: LOCAL DUST PICK UP AND VENTILATION RECOMMENDED.

Protective Gloves: HEAT RESISTANT DURING SOLDERING

Eye Protection: FACE SHIELD/GOGGLES DURING SOLDERING

O

ther Protective Equipment:INSTALL EYE WASH STATION.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND

RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING OR DRINKING.

Supplemental Safety and Health

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

HCC:N1

Boiling Pt:B.P. Text:3137F,1725C

Melt/Freeze Pt:M.P/F.P Text:450F,232C

Spec Gravity:>7

Solubility in Water:INSOLUBLE

Appearance and Odor:GRAY METALLIC BAR, WIRE, RIBBON, ETC. WITH NO ODOR

=====

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS

Stability Condition to Avoid:NONE

Hazardous Decomposition Products:TOXIC METAL FUMES MAY BE FORMED.

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

Waste Disposal Methods:NEVER DISPOSE OF IN TRASH. HOLD FOR RECYCLING OR  
DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND  
FEDERAL REGULATIONS. SELL TO A METALS RECLAIMER.

Disclaimer (

provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department  
of Defense. The United States of America in no manner whatsoever,  
expressly or implied, warrants this information to be accurate and  
disclaims all liability for its use. Any person utilizing this  
document should seek competent professional advice to verify and  
assume responsibility for the suitability of this information to their  
particular situation.