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## 

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, GASTROINTESTIN AL & NERVOUS SYSTEMS.

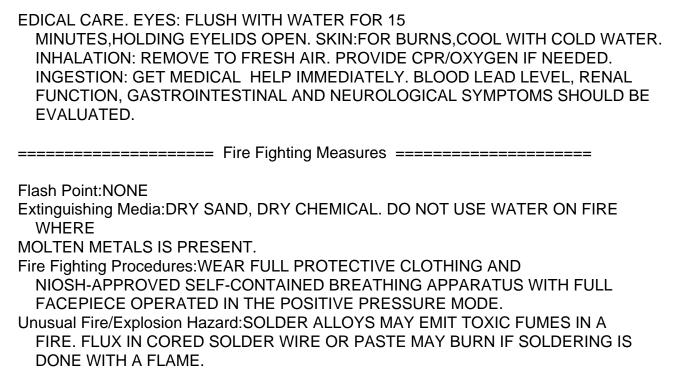
Explanation of Carcinogenicity:THIS PRODUCT CONTAINS LEAD WHICH CAN
CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. MAY BE CARCINOGENIC
T

## 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:GET M



======== 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 M

AY RESULT IN THE EMISSION OF TOXIC LEAD FUMES DURING SOLDERIN G.

===== 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

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===== 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 (

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