

KESTER SOLDER COMPANY DIV OF LITTON SYSTEMS INC -- #44 RESIN-CORE SOLDER --
3439-00-133-1108

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

Product ID:#44 RESIN-CORE SOLDER

MSDS Date:12/12/1988

FSC:3439

NIIN:00-133-1108

MSDS Number: BPYCQ

=== 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

CAGE: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:ROSIN ACID

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AS:8050-09-7
Fraction by Wt: 95%
Other REC Limits:NONE RECOMMENDED

Ingred Name:FOLLOWING INGREDINTS ARE FOR THE SOLDER WIRE AROUND THE
RESIN. MANUFACTURER DID NOT LIST. THEY ARE FROM PARTSMATER.
RTECS #:9999999ZZ
Other REC Limits:NONE RECOMMENDED

Ingred Name:TIN
CAS:7440-31-5
RTECS #:XP7320000
Fraction by Wt: 61.5%
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 Wt: 37.53%
Other REC Limit
s: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: 0.5%
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

Ingred Name:BISMUTH
CAS:7440-69-9
RTECS #:EB2600000
Fraction by Wt: 0.25%
Other REC Limits:NONE RECOMMENDED

Ingred Name:COPPER (SARA III)
CAS:7440-50-8
RTECS #:GL5325000
Fr

action by Wt: 0.08%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.1MG/M3 FUME/1 DUST
ACGIH TLV:0.2MG/M3 FUME; 9293
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:ARSENIC (SARA III)
CAS:7440-38-2
RTECS #:CG0525000
Fraction by Wt: 0.03%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.5 MG/M3 (AS)
ACGIH TLV:0.01,A1 MG/M3; 9394
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:IRON
CAS:7439-89-6
RTECS #:NO4565500
Fraction by Wt: 0.02%
Other REC Limits:NONE RECOMMENDED

Ingred Name:ALUMINUM (SARA III)
CAS:7429-90-5
RTECS #:BD0330000
Fraction by Wt: 0.005%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15MG/M3 DUST/5 FUME
ACGIH TLV:10MG/M3 DUST; 9293

Ingred Name:ZINC (SARA III)
CAS:7440-66-6
RTECS #:ZG8600000
Fraction by Wt: 0.005%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:10 MG ZNO/M3
ACGIH TLV:10 MG ZNO/M3; 9293
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of

Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:ACUTE: SMOKE FOM SOLDERING OPERATIONS
MAY CAUSE RESPIRATORY TRACT AND EYE IRRITATION. ROSIN IS AN
ALLERGIN; MAY CAUSE RASH, HEADACHE, OR THROAT IRRITATION IN A
SENSITIVE PERSON. CHRONIC: NONE SPECIFIE D BY MANUFACTURER.
HMIS-MAY CAUSE CANCER.

Explanation of Carcinogenicity:LEAD IS LISTED BY NTP AS AN ANTICIPATED
CARCINOGEN AND BY IARC AS A SUSPECTED (2B) CARCINOGEN.

Effects of Overexposure:INHALED
: COUGHING, SNEEZING, SHORTNESS OF
BREATH, SORE THROAT. EYES: TEARING, REDNESS, BLURRED VISION. SKIN:
RASH. INGESTED: NONE SPECIFIED BY MANUFACTURER.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:INHALED: REMOVE TO FRESH AIR. EYES: FLUSH WITH LOTS OF WATER
FOR 15 MINUTES, HOLD LIDS OPEN. SEE DOCTOR. SKIN: WASH WITH SOAP
AND WATER. INGESTED: NONE SPECIFIED BY MANUFACTURER.

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

Flash Point Method:COC
Flash Point:420F,216C
Extinguishing Media:WATER, CARBON DIOXIDE, ALCOHOL FOAM, DRY CHEMICAL
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS.
Unusual Fire/Explosion Hazard:NONE

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

Spill Release Procedures:SWEEP OR SCOOP UP AND PLACE IN A CONTAINER FOR
LATER DISPOSAL.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:AVOID EYE CONTACT WITH HOT FLUX. AVOID
BREATHING SMOKE DURING SOLDERING.
Other Precautions:NONE SPECIFIED BY MANUFACTURER.

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

Respiratory Protection:NONE NORMALLY REQUIRED.
Ventilation:USE ADEQUATE MECHANICAL VENTILATION.
Protective Gloves:NONE NORMALLY REQUIRED.
Eye Protection:SAFETY GLASSES
Other Protective Equipment:NONE NORMAL

LY REQUIRED.

Work Hygienic Practices:WASH HANDS AFTER USE AND BEFORE EATING,
DRINKING, OR SMOKING.

Supplemental Safety and Health

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

HCC:N1

Melt/Freeze Pt:M.P/F.P Text:149F,65C

Spec Gravity:1.08 (WATER=1)

Solubility in Water:NEGLIGIBLE

Appearance and Odor:SOLID AMBER CORE INSIDE SOLDER WIRE

Percent Volatiles by Volume:4.5

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

Stability Indicator/Materials to A

void:YES

STRONG OXIDIZING AGENTS

Stability Condition to Avoid:CONTACT WITH INCOMPATIBLES. AVOID
TEMPERATURES ABOVE 149F

Hazardous Decomposition Products:MAY EMIT HYDROGEN CHLORIDE FUMES

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

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

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