

KESTER SOLDER DIV,LITTON SYSTEMS INC -- 197 ROSIN FLUX -- 3439-01-007-5494
===== Product Identification =====

Product ID:197 ROSIN FLUX
MSDS Date:05/18/1993
FSC:3439
NIIN:01-007-5494
MSDS Number: BXZHB
=== 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:847-297-1600
Emergency Phone Num:8
47-297-1600
Preparer's Name:D. BERNIER
CAGE:75297
=== 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:ISOPROPYL ALCOHOL (S

ARA 313)
CAS:67-63-0
RTECS #:NT8050000
Fraction by Wt: 56%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:400 PPM
ACGIH TLV:400 PPM/500STEL;9495

Ingred Name:ROSIN ACID (MODIFIED ROSIN)
CAS:8050-09-7
Fraction by Wt: 37%
Other REC Limits:NONE RECOMMENDED

Ingred Name:VOLITILE ORGANIC CONTENT AS LISTED ON MSDS, 501 G/LITER.
RTECS #:9999999VC
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:LD50 RAT,ORAL = 5.8G/KG.

Routes of Entr

y: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:PRIMARY EXPO DURING SOLDERING IS TO
EVAPORATED ALCOHOL SOLVENT WHICH MAY CONTAIN DROPLETS OF ROSIN &/OR
ORGANIC DECOMPO PRODUCTS. INHAL:FUMES FRM SOLDERING MAY IRRIT MUC
MEM,RESP SYS.HI CONCEN CAUSE H EAD,DIZZ,NARCOSIS,NAU. SKIN:LOCAL
IRRIT. SKIN ABSORPTION:NONE. EYE:IRRIT FRM CONTACT W/LIQ,SMOKE FRM
SOLDERING. (SUPPLE)

Explanation of Carcinogenicit

y:PER MSDS:CARCINOGEN:NOT LISTED.

Effects of Overexposure:IRRIT MUC MEMBRANE, RESPIRATORY SYSTEM.

HEADACHE, DIZZINESS, NARCOSIS, NAUSEA. LOCAL SKIN IRRIT. EYE IRRIT.
BURNING SENSATION IN DIGESTIVE TRACT.

Medical Cond Aggravated by Exposure:CHEM HYPERSENSITIVITY,ASTHMA,OTHER
RESP CONDITIONS.CONTD BREATH OF HIGH CONCEN OF ALCOHOL VAP CAN
AFFECT LIVER & CNS. TARET ORGANS:EYES, MUCOUS MEMBRANES, RESP
SYSTEM.

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

F

First Aid:EYE:FLUSH W/PLENTY OF WATER.GET MED ATTN.REMOVE ROSIN FRM AROUND EYES W/DILUTE ETHANOL SOLUTION. SKIN:WASH THOROUGHLY W/SOAP/WATER. INHAL:REMOVE VICTIM TO FRESH AIR. INGEST:INDUCE VOMIT & GET PROMPT MED ATTN.

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

Flash Point Method:TOC
Flash Point:65.0F,18.3C
Autoignition Temp:Autoignition Temp Text:750F
Lower Limits:2.0
Upper Limits:12.0
Extinguishing Media:CARBON DIOXIDE, ALCOHOL FOAM, DRY CHEMICAL.
Fire F
ighting Procedures:USE WATER SPRAY TO COOL FIRE EXPOSED CNTNRS & CONTROL VAPORS.
Unusual Fire/Explosion Hazard:A MODERATE EXPLOSION HAZARD EXISTS WHEN EXPOSED TO HEAT OR FLAMES.

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

Spill Release Procedures:REMOVE ALL IGNITION SOURCES. PROVIDE ADEQUATE VENTILATION. ABSORBENTS SUCH AS VERMICULITE, CAN BE USED TO SOAK UP SPILLED LIQUID. CLEAN UP RESIDUAL W/ALKALINE DETERGENT.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE AWAY FRM IGN SOURCES.STORAGE @TEMPS BELOW 40F(4C)MAY RESULT IN PRECIPITATION OF SOME ROSIN.OPN CNTNRS CAUTIOUSLY TO ALLOW VENT OF INTER PRESSURE
Other Precautions:STATIC DISCHARGE.

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

Respiratory Protection:USUALLY NOT REQUIRED. WHEN VENTILATION IS NOT ADEQUATE TO REMOVE SMOKE FROM BREATHING ZONE, A CARTRIDGE TYPE RESPIRATOR SHOULD BE WORN.
Ventilation:PROVIDE ADEQUATE EXHAUST VENTILATION (GENERAL &/OR LOCAL) TO MEET TLV REQMTS.
Protective Gloves:PLASTIC, RUBBER GLOVES WHERE NECESSARY.
Eye Protection:SAFETY GLASSES/GOGGLES WHEN SPLASHING.
Other Protective Equipment:IMPERMEABLE APRON WHEN SPLASHING IS LIKELY TO OCCUR.
Work Hygienic Practices:WASH HANDS THOROUGHLY BEFORE EATING OR SMOKING.
Supplemental Safety and Health
THERM DECOMP PROD:ALDEHYDES,ACIDS,TERPENES. HEALTH HAZ:INGEST

:BURNING

SENSATION IN DIGESTIVE TRACT.PROL/REP SKIN CONTACT RASH.BREATH VAP
RESULT HEAD,DIZZ,NARCOSIS,MUC MEM IRRIT.SMOKE DURING SOLDERING
WILL CONTAIN ROSIN WHICH IS ALLERGEN,RESP IRRIT/DMG.

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

HCC:F2

Boiling Pt:B.P. Text:170F,77C

Vapor Pres:33 @20C

Vapor Density:2.1

Spec Gravity:0.891

Evaporation Rate & Reference:1.7 (N-BUTYL ACETATE=1)

Solubility in Water:63% BY WT, APPRECIAB

Appearance and Odor:AMBER LIQUID

WITH ALCOHOL ODOR.

Percent Volatiles by Volume:70

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING MATERIALS.

Stability Condition to Avoid:NOT ESTABLISHED.

Hazardous Decomposition Products:CO,CO2,ALIPHATIC ALDEHYDES,ACIDS.HEAT
TO SOLDER TEMPS SOLVT EVAPORATE-ROsin THERM DEGRADE TO GIVE
ALIPHATIC (SUPPLEMENT)

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

Waste Disposal Methods:ACCORDIN

G TO LOCAL REGULATINS USUALLY BY

INCINERATION. EPA HAZ WASTE NO:D001. HAZ CLASS IS IGNITABLE WASTE.

CAUTION:EMTPY CNTNRS MAY CONTAIN PRODUCT RESIDUE. OBSERVE ALL LABEL
PRECAUTIONS.

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.