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KESTER SOLDER DIV, LITTON SYSTEMS INC -- 1544-MIL TYPE RA FLUX -- 3439-00-400-1972

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

Product ID:1544-MIL TYPE RA FLUX

MSDS Date:05/11/1993

FSC:3439

NIIN:00-400-1972

MSDS Number: BWPDS === 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:708-297-1600

Emergenc

y Phone Num:708-297-1600

CAGE:75297

=== 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:ETHYL ALCOHOL (ETHANOL)

CAS:64-17-5

RTECS #:KQ6300000 Fraction by Wt: 25%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:1000 PPM

ACGIH TLV:1000 PPM; 9394

Ingred Name:SEC-BUTYL ALCO

HOL (SARA III) CAS:78-92-2 RTECS #:EO1750000

Fraction by Wt: 25%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:150 PPM

ACGIH TLV:100 PPM; 9394

Ingred Name: ROSIN ACID

CAS:8050-09-7 Fraction by Wt: 50%

Other REC Limits: NONE RECOMMENDED

LD50 LC50 Mixture:LD50 (ORAL) 4.4 G/KG

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:INHALATION- FU

MES DURING SOLDERING MAY

IRRITATE MUCOUS MEMBRANES AND RESPIRATORY SYSTEM. SKIN- LOCAL IRRITATION. EYES- IRRITATION FROM CONTACT WITH LIQUID AND SMOKE FROM SOLDERING. INGESTION- BURNI NG SENSATION IN THE DEGESTIVE TRACT.

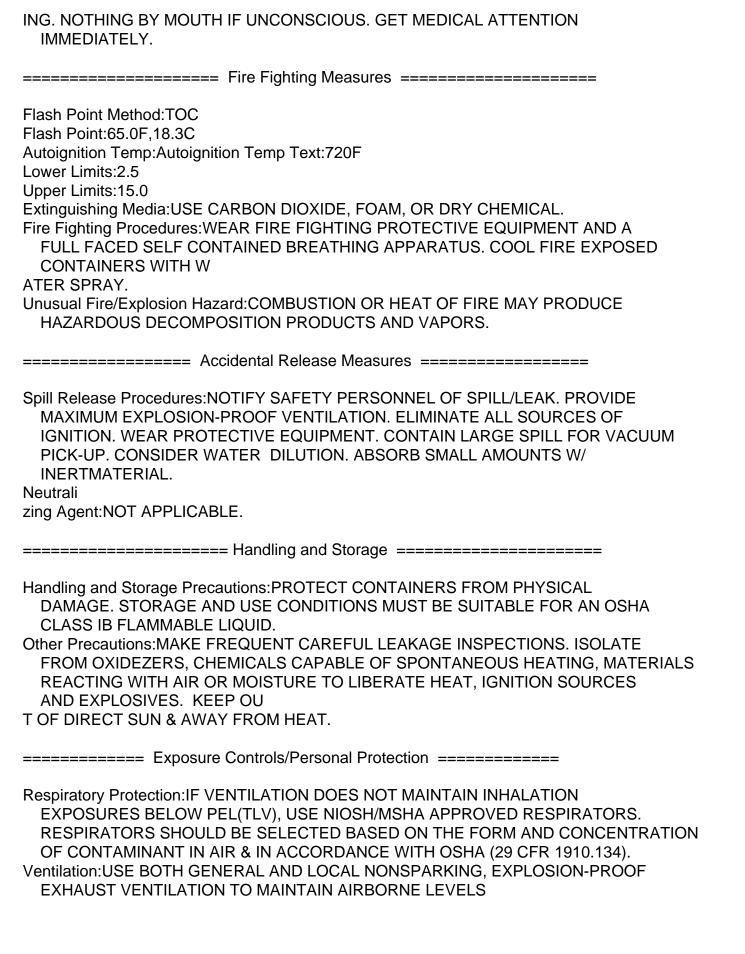
Explanation of Carcinogenicity: NONE OF THE COMPOUNDS IN THIS PRODUCT IS LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.

Effects of Overexposure:INHALATION- HIGH CONCENTRATIONS CAN CUASE HEADACHE, DIZZINESS, NARCOSIS AND NAUSEA.

Medical Cond Aggravated by

Exposure: CHEMICAL HYPERSENSITIVITY, ASTHMA AND OTHER RESPIRATORY CONDITIONS.

First Aid:INHALATION: REMOVE TO FRESH AIR. GIVE MOUTH-TO-MOUTH RESUSCITATION IF NOT BREATHING. GET MEDICAL ATTENTION IMMEDIATELY. EYE: IMMEDIATELY FLUSH WITH RUNNING WATER FOR 15 MINUTES WHILE HOLDING EYELID. G ET MEDICAL ATTENTION IMMEDIATELY. SKIN:WASH WITH SOAP & WATER. REMOVE CONTAMINATED CLOTHING. INGESTION: INDUCE VOMIT



BELOW TLV/PEL.

Protective Gloves: WEAR IMPERVIOUS GLOVES

====== Disposal Consideratio

Eye Protection: SAFETY GLASSES/CHEMICAL SAFETY GOGGLES.

Other Protective Equipment: WEAR RUBBER BOOTS, APRONS, AND OTHER APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT SUITABLE TO THE WORK SITUATION.

Work Hygienic Practices: PRACTICE GOOD PERSONAL HYGIENE. KEEP MATERIAL OFF CLOTHES AND EQUIPMENT. DO NOT SMOKE ANYWHERE NEAR WORK AREA. Supplemental Safety and Health

AVOID REPEATED OR PROLONGED SKIN CONTACT OR INHALATION OF VAPORS. USE

HAZARDOUS OR UNINTENDED IGNITION. EXPOSURE TO ETHYL ALCOHOL ENHANCES T OXICITY HAZARDS OF OTHER MATERIALS SUCHAS CHLORINATED HYDROCARBON SOLVENTS OR DRUGS. WASH THOROUGHLY AFTER USE.
======== Physical/Chemical Properties =========
HCC:F2 Boiling Pt:B.P. Text:170F,77C Vapor Pres:40 Vapor Density:1.8 Spec Gravity:0.926 Evaporation Rate & Deference:1.8 (N-BUTYL ACETATE=1) Solubility in Water:50% Appe arance and Odor:DARK, AMBER STICKY LIQUID. Percent Volatiles by Volume:57
========= Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION Hazardous Decomposition Products:WHEN HEATED TO SOLDERING TEMPERATURES, THE SOLVENTS ARE EVAPORATED AND PRODUCE ALIPHATIC ALKEHYDES, ACIDS & TERPENES.

Waste Disposal Methods:MATERIAL SHOULD BE RECLAIMED, RECYCLED OR INCINERATED IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. EMPTY CONTAINERS MAY CONTAIN RESIDUE.

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