

KESTER SOLDER -- 1544-HT ROSIN SOLDERING FLUX -- 3439-00-400-1972

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Product Identification
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Product ID:1544-HT ROSIN SOLDERING FLUX

MSDS Date:08/10/1998

FSC:3439

NIIN:00-400-1972

Status Code:A

MSDS Number: CKLQZ

=== Responsible Party ===

Company Name:KESTER SOLDER

Address:515 E TOUHY

City:DES PLAINES

State:IL

ZIP:60018

Country:US

Info Phone Num:708-297-1600

Emergency Phone Num:847-297-16

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Resp. Party Other MSDS Num.:MSDS NUMBER: 1544-HT

Chemtrec Ind/Phone:(800)424-9300

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

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Composition/Information on Ingredients
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Ingred Name:MODIFIED ROSIN

CAS:65997-05-9

= Wt:50.

Ingred Name:HIGH BOILING GLYCOL BAS

= Wt:50.

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Hazards I
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dentification =====

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

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

Health Hazards Acute and Chronic:TARGET ORGANS: EYES, SKIN, MUCOUS MEMBRANES & RESPIRATORY SYSTEM. ACUTE: INHALATION: FUMES DURING SOLDERING MAY IRRITATE MUCOUS MEMBRANES & RESPIRATORY SYSTEM. SKIN: LOCAL IRRITATION. SKIN ABSORPTION: NONE. EYE: IRRITATION FROM CONTACT WITH LIQUID & SMOKE FROM SOLDERING.INGESTION: BURNING SENSATION

IN THE DIGESTIVE TRACT. CHRONIC: SMOKE DURING SOLDERING WILL CONTAIN ROSIN WHICH IS AN ALLERGEN & CAN CAUSE RESPIRATORY SYSTEM IRRITATION & DAMAGE.

Explanation of Carcinogenicity:NOT LISTED.

Effects of Overexposure:ACUTE: INHALATION: HIGH CONCENTRATIONS CAN CAUSE HEADACHE, DIZZINESS, NARCOSIS & NAUSEA. CHRONIC: BREATHING VAPORS CAN RESULT IN HEADACHE, DIZZINESS, NARCOSIS & IRRITATION OF THE MUCOUS MEMBRANES.

Medical Cond Aggravated by Exposure:CHEMICAL HYPERSENSITIVITY, ASTHMA &

OTHER RESPIRATORY CONDITIONS. CONTINUED BREATHING OF HIGH CONCENTRATIONS OF ALCOHOL VAPORS CAN AFFECT THE LIVER & CENTRAL NERVOUS SYSTEM.

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

First Aid:SEEK MEDICAL ASSISTANCE FOR FURTHER TREATMENT, OBSERVATION & SUPPORT IF NEEDED. EYE: FLUSH EYES WITH PLENTY OF WATER & GET MEDICAL ATTENTION. REMOVE ROSIN FROM AROUND EYES WITH A DILUTE ETHANOL SOLUTION. SKIN: WASH THOROUGHLY WITH SOAP & WATER. INH

ALATION: REMOVE VICTIM TO FRESH AIR. INGESTION: INDUCE VOMITING & GET PROMPT MEDICAL ATTENTION.

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

Flash Point Method:TOC

Flash Point:84.C, 183.2F

Autoignition Temp:Autoignition Temp Text:N/E

Lower Limits:1.5

Upper Limits:9.7

Extinguishing Media:CARBON DIOXIDE, ALCOHOL FOAM, DRY CHEMICAL.

Fire Fighting Procedures:USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS & CONTROL VAPORS.

Unusual Fire/Explosion Hazard:A MODERATE E

EXPLOSION HAZARD EXISTS WHEN
EXPOSED TO HEAT OR FLAMES.

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

Spill Release Procedures: REMOVE ALL IGNITION SOURCES. PROVIDE ADEQUATE VENTILATION. ABSORBANTS, SUCH AS VERMICULITE, CAN BE USED TO SOAK UP THE SPILLED LIQUID OR FLUSH AWAY WITH PLENTY OF WATER. CLEAN UP RESIDUAL WITH ALKALINE DETERGENT.

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

Handling and Storage Precautions: STORE AWAY FROM SOURCES OF IGNITION.

STORAGE AT TEMP BELOW 40 DEG F (4 DEG C) MAY RESULT IN PRECIPITATION OF SOME ROSIN. OPEN CONTAINERS CAUTIOUSLY TO ALLOW VENTING OF ANY INTERNAL PRESSURE.

Other Precautions: EMPTY CONTAINERS MAY CONTAIN PRODUCT RESIDUE. OBSERVE ALL LABEL PRECAUTIONS.

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

Respiratory Protection: WHEN VENTILATION IS NOT SUFFICIENT TO REMOVE FUMES FROM THE BREATHING ZONE, A NIOSH APPROVED RESPIRATOR SHOULD BE WORN.

Ventilation: LOCAL EXHAUST VENTILATION IS PREFERRED TO MINIMIZE DISPERSION OF SMOKE & FUMES INTO THE WORK AREA.

Protective Gloves: PLASTIC OR RUBBER GLOVES WHERE NECESSARY TO AVOID SKIN CONTACT.

Eye Protection: SAFETY GLASSES OR GOGGLES WHEN SPLASHING IS LIKELY TO OCCUR.

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

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

HCC: V4

Boiling Pt: =176.7C, 350.F

B.P. Text: (760 MM HG)

Vapor Pres: 2.3 @ 107 F (MM HG @ 20 C)

Vapor Density: 3.5 (AIR=1)

VOC Pounds/Gallon: 524

Evaporation Rate & Reference: 0.07 (BUTYL ACETATE=1)

Solubility in Water: 50 (% BY WEIGHT)

Appearance and Odor: THICK, DARK AMBER LIQUID WITH MILD ODOR

Percent Volatiles by Volume: 50%

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

Stability Indicator/Materials to Avoid: YES
STRONG OXIDIZING MATERIAL

TERIALS.

Stability Condition to Avoid:NOT ESTABLISHED.

Hazardous Decomposition Products:WHEN HEATED TO SOLDERING TEMPERATURES, THE SOLVENTS ARE EVAPORATED & ROSIN MAY BE THERMALLY DEGRADED TO LIBERATE ALIPHATIC ALDEHYDES, ACIDS & TERPENES.

Conditions to Avoid Polymerization:WILL NOT OCCUR

===== Toxicological Information =====

Toxicological Information:EXPOSURE LIMITS: NOT DETERMINED FOR THE PRODUCT. PRIMARY EXPOSURE DURING SOLDERING IS TO EVAPORATED GLYCOL SOLVENT WHICH MAY CONTAIN DROPLETS OF ROSIN AND/OR ORGANIC DECOMPOSITION PRODUCTS.

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

Waste Disposal Methods:ACCORDING TO LOCAL REGULATIONS, USUALLY BY INCINERATION. EPA HAZARDOUS WASTE NUMBER IS D001. HAZARD CLASS IS IGNITABLE WASTE.

===== MSDS Transport Information =====

Transport Information:DOT: COMBUSTIBLE LIQUID N.O.S. TDG: NOT REGULATED.

===== Other Information =====

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