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KESTER SOLDER DIVISION OF LITTON SYSTEMS, INC. -- 197, ROSIN SOLDERING FLUX, TYPE RMA -- 3439-00-069-5815

Product ID:197, ROSIN SOLDERING FLUX, TYPE RMA MSDS Date:11/01/1999 FSC:3439 NIIN:00-069-5815 Status Code:A **MSDS Number: CLFST** === Responsible Party === Company Name: KESTER SOLDER DIVISION OF LITTON SYSTEMS, INC. Address:515 E. TOUHY AVENUE City:DES PLAINES S tate:IL ZIP:60018 Country:US Info Phone Num:847-297-1600 Emergency Phone Num:800-424-9300 Resp. Party Other MSDS Num.:197 Preparer's Name:M. WISE Chemtrec Ind/Phone:(800)424-9300 CAGE:75297 === Contractor Identification === **Company Name: CMAX INC** Address:6127 PERIMETER PKY Box:11647 City:MONTGOMERY State:AL ZIP:36111 Country:US Phone:334-613-0500/ FAX: 2922 Contract Num:SP0400-01-V-1706 CAGE:2Y223 Company Name: KESTER SOLDER COMPANY Address:515 E. TOUHY AVENUE Box:City:DES PLAINES State:IL ZIP:60

018 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 Company Name: SUPERIOR FLUX AND MFG CO Address:6615 PARKLAND BLVD City:SOLON (FORMALLY CLEVELAND) State:OH ZIP:44139 Country:US Phone:440-349-3000 CAGE:87618

Ingred Name:2-PROPANOL CAS:67-63-0 RTECS #:NT8050000 = Wt: 56. OSHA PEL:980 MG/M3;400 PPM ACGIH TLV:983 MG/M3;400 PPM ACGIH STEL:1230 MG/M3;500 PPM

Ingred Name:ROSIN CAS:8050-09-7 RTECS #:VL0480000 = Wt:37.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:ACUTE: INHALATION: FUMES DURING SOLDERING MAY IRRITATE MUCOUS MEMBRANES AND RESPIRATORY SYSTEM. HIGH CONCENTRATIONS CAN CAUSE HEAD ACHE, DIZZINESS, NARCOSIS, AND

NAUSEA. SKIN CONTACT: LOCAL IRRITATION. SKIN ABSORPTION: NONE. EYE CONTACT: IRRITATION FROM CONTACT WITH LIQUID AND SMOKE FROM SOLDERING. INGESTION: BURNING SENSATION IN THE DIGESTIVE TRACT. CHRONIC: PROLONGED OR REPEATED SKIN CONTACT CAN RESULT IN A RASH. BREATHING VAPORS CAN RESULT IN HEADACHE, DIZZINESS, NARCOSIS, AND IRRITATION OF THE MUCOUS MEMBRANES. SMOKE DURING SOLDERING WILL CONTAIN ROSIN WHICH IS AN ALLERGEN AND CAN CAUSE RES PIRATORY

SYSTEM IRRITATION AND DAMAGE.

Explanation of Carcinogenicity:NOT LISTED AS A CARCINOGEN.

Effects of Overexposure:INHALATION: IRRITATION HEADACHE, DIZZINESS, NARCOSIS, NAUSEA. SKIN: IRRITATION. EYES: IRRITATION. INGESTION: BURNING SENSATION IN THE DIGESTIVE TRACT.

Medical Cond Aggravated by Exposure:CHEMICAL HYPERSENSENSITIVITY, ASTHMA AND OTHER RESPIRATORY CONDITIONS.CONTINUED BREATHING HIGH CONC. OF ALCOHOL VAPORS CONTAINING ROSIN, AN ALLERGEN, CAN AFFECT LIVER

AND CENTRAL NERVOUS SYSTEM.

First Aid:EYE CONTACT: FLUSH WITH PLENTY OF WATER AND GET MEDICAL ATTENTION. REMOVE ROSIN FROM AROUND EYES WITH A DILUTE ETHANOL SOLUTION. SKIN CONTACT: WASH THOROUGLY WITH SOAP AND WATER. INHALATION: REMOVE VI CTIM TO FRESH AIR. INGESTION: INDUCE VOMITING AND GET PROMPT MEDICAL ATTENTION. GENERAL: SEEK MEDICAL ASSISTANCE FOR FURTHER TREATMENT, OBSERVATION AND SUPPORT IF NEEDED

Flash Point Method:TOC Flash Point:=18.3C, 65.F Autoignition Temp:=398.9C, 750.F Lower Limits:2.0 Upper Limits:12.0 Extinguishing Media:CARBON DIOXIDE, ALCOHOL FOAM, DRY CHEMICAL. Fire Fighting Procedures:USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS AND CONTROL VAPORS. Unusual Fire/Explosion Hazard:A MODERATE EXPLOSION HAZARD EXISTS WHEN EXPOSED TO HEAT OR FLAMES. EXPLOSION SENSITIVITY: IMPACT - NONE IDENTIFI ED. STATIC DISCHARGE SENSITIVITY - YES.

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

Handling and Storage Precautions:STORE AWAY FROM SOURCES OF IGNITION. STORAGE AT TEMPERATURES BELOW 40F

(4C) MAY RESULT IN PRECIPITATION

OF SOME ROSIN. OPEN CONTAINERS CAUTIOUSLY TO ALLOW VENTING OF ANY INTERNAL PRESSURE.

Other Precautions: CAUTION: 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: PROVIDE ADEQUATE VENTILATION (GEN

ERAL AND/OR LOCAL) AS

NECESSARY TO MEET EXPOSURE REQUIREMENTS. LOCAL EXHAUST PREFERED TO MINIMIZE SMOKE AND FUMES IN WORK AREA

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

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

Other Protective Equipment:WEAR IMPERMEABLE APRON WHEN SPLASHING IS LIKELY TO OCCUR.

Work Hygienic Practices: WASH HANDS THOROUGHLY BEFORE EATING OR SMOKING. Supplemental Safety and Health

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HCC:F2

Boiling Pt:=76.7C, 170.F Vapor Pres:33 MM HG @ 20C Vapor Density:2.1 (AIR=1 Spec Gravity:0.891 (WATER=1 @25C) VOC Pounds/Gallon:501 Evaporation Rate & amp; Reference:1.7 (BUTYL ACETATE=1) Appearance and Odor:AMBER LIQUID WITH ALCOHOL ODOR. Percent Volatiles by Volume:70

Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING MATERIALS. Stability Condition

to Avoid:NOT ESTABLISHED. Hazardous Decomposition Products:COMBUSTION: CO, CO2, ALIPHATIC ALDEHYDES, ACIDS. WHEN HEATED TO SOLDERING TEMPERATURES, THE SOLVENTS ARE EVAPORATED AND ROSIN MAY BE THERMALLY DEGARDED TO LIBERATE ALIPHATIC ALDEHYDES, ACIDS, TERPENES. Conditions to Avoid Polymerization:WILL NOT OCCUR.
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Toxicological Information:PRIMARY EXPOSURE DURING SOLDERING IS TO EVAPORATED ALCOHOL SOLVENT WHICH CONT AIN DROPLETS OF ROSIN AND / OR
ORGANIC DECOMPOSITION PRODUCTS. TARGET ORGANS: EYES, SKIN, MUCOUS MEMBRANES AND RESPIRATION SYSTEM. CARCINOGENICITY: NOT LISTED.
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Waste Disposal Methods:DISPOSE OF WASTE IN ACCORDANCE TO LOCAL REGULATIONS, USUALLY BY INCINERATION. EPA HAZARDOUS WASTE NUMBER IS D001. HAZARD CLASS IS IGNITABLE WASTE.
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Transport In formation:DOT: ISOPROPANOL, UN 1219, FLAMMABLE LIQUID. WHMIS: CLASS B, DIVISION 2, SUBDIVISION B. TDG: PACKAGING GROUP I I, CLASS 3.2.
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