

197, ROSIN SOLDERING FLUX, TYPE RMA

MSDS Number

CLFST

National Stock Number

3439-00-069-5815

Product Name

197, ROSIN SOLDERING FLUX, TYPE RMA

Manufacturer

KESTER SOLDER DIV OF LITTON SYSTEMS INC

Product Identification

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

KESTER SOLDER DIVISION OF LITTON SYSTEMS, INC.

515 E. TOUHY AVENUE

DES PLAINES , IL 60018

US

Emergency Phone: 800-424-9300

Info Phone: 847-297-1600

Preparer: M. WISE

Cage: 75297

Contractor

SUPERIOR FLUX AND MFG CO

SOLOM (FORMALLY CLEVELAND), OH 44139

US

440-349-3000

Cage: 87618

Ingredients

2-PROPANOL

CAS: 67-63-0

RTECS: NT8050000

OSHA PEL980 MG/M3;400 PPM

ACGIH TLV: 983 MG/M3;400 PPM

ROSIN

CAS: 8050-09-7

RTECS: VL0480000

Hazards

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 HEADACHE, 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 HYPERSENSITIVITY,
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

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 THOROUGHLY 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.

Fire Fighting

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
IDENTIFIED. STATIC DISCHARGE SENSITIVITY - YES.

Accidental Release

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

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

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 (GENERAL 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

Chemical Properties

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 & Reference: 1.7 (BUTYL ACETATE=1)

Appearance and Odor: AMBER LIQUID WITH ALCOHOL ODOR.

Percent Volatiles by Volume: 70

Stability

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 DEGRADED TO LIBERATE ALIPHATIC ALDEHYDES, ACIDS, TERPENES.

Conditions to Avoid Polymerization: WILL NOT OCCUR.

Disposal

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.

Toxicology

Toxicological Information: PRIMARY EXPOSURE DURING SOLDERING IS TO EVAPORATED ALCOHOL SOLVENT WHICH CONTAIN DROPLETS OF ROSIN AND / OR ORGANIC DECOMPOSITION PRODUCTS. TARGET ORGANS: EYES, SKIN, MUCOUS MEMBRANES AND RESPIRATION SYSTEM. CARCINOGENICITY: NOT LISTED.

Other Information

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.

Transport

Transport Information: DOT: ISOPROPANOL, UN 1219, FLAMMABLE LIQUID.

WHMIS: CLASS B, DIVISION 2, SUBDIVISION B. TDG: PACKAGING GROUP I
I, CLASS 3.2.