

KESTER SOLDER DIV LITTON SYSTE -- HF-1189A WATER SOLUBLE SOLDERING FLU

=====
MSDS Safety Information
=====

FSC: 3439

MSDS Date: 10/15/1996

MSDS Num: CJKKJ

LIIN: 00N091429

Product ID: HF-1189A WATER SOLUBLE SOLDERING FLUX

MFN: 01

Responsible Party

Cage: 75297

Name: KESTER SOLDER DIV LITTON SYSTEMS INC

Address: 515 E TOUHY AVE

City: DES PLAINES IL 60018

Info Phone Number: 847- 297-1600

Emergency Phone Number: 800-424-9300

Resp. Party Other MSDS No.: HF-1189A

Preparer's Name: D. BERNIER

Chemtrec IND/Phone: (800)424-9300

Review Ind: Y

Published: Y

=====
Contractor Summary
=====

Cage: 75297

Name: KESTER SOLDER DIVISION OF LITTON SYSTEMS, INC.

Address: 515 E. TOUHY AVENUE

City: DES PLAINES IL 60018

Phone: 847-297-1600

=====
Item Description Information
=====

=====
Ingredients
=====

Cas: 68603-84-9

Name: CARBOXYLIC ACIDS

Percent by Wt: 42.

Cas: 7732-18-5

RTECS #: ZC0110000

Name: WATER; (WATER AND SURFACTANTS)

% Wt: BALANCE
=====

=====
Health Hazards Data
=====

Route Of Entry Inds - Inhalation: YES

Skin: YES

Ingestion: YES

Carcinogenicity Inds - NTP: NO

IARC: NO

OSHA: NO

Effects of Exposure: ACUTE: INHALATION: FUMES DURING SOLDERING MAY IRRITATE MUCOUS MEMBRANES AND RESPIRATORY SYSTEM. SKIN CONTACT: LOCAL IRRITATION. ABSORPTION: NONE. EYE CONTACT: IRRITATION FROM CONTACT WITH LIQUID FROM SOLDERING. INGESTION: BURNING SENSATION IN THE DIGESTIVE TRACT. PROLONGED OR REPEATED SKIN CONTACT CAN RESULT IN A RASH. BREATHING VAPORS CAN RESULT IN HEADACHE, DIZZINESS, NAUSEA AND IRRITATION OF THE MUCOUS MEMBRANES. SMOKE DURING SOLDERING CAN CAUSE RESPIRATORY SYSTEM IRRITATION. DAMAGE. TARGET ORGANS: EYES, SKIN, MUCOUS MEMBRANES AND RESPIRATORY SYSTEM. Signs And Symptoms Of Overexposure: SEE HEALTH HAZARDS.

Medical Conditions Aggravated By Exposure: CHEMICAL HYPERSENSITIVITY, ASTHMA AND OTHER RESPIRATORY CONDITIONS.

First Aid: SEEK MEDICAL ASSISTANCE FOR FURTHER TREATMENT, OBSERVATION AND SUPPORT IF NEEDED. EYES: FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION. SKIN: WASH THOROUGHLY WITH SOAP AND WATER. INHALATION: REMOVE TO FRESH AIR. INGESTION: DO NOT INDUCE VOMITING. DRINK THREE TO FOUR GLASSES OF MILK OR WATER AND GET PROMPT MEDICAL ATTENTION.

===== Handling and Disposal =====

Spill Release Procedures: PROVIDE ADEQUATE VENTILATION. ABSORBENTS, SUCH AS VERMICULITE, CAN BE USED TO SOAK UP THE SPILLED LIQUID OR FLUSH AWAY WITH PLENTY OF WATER.

Waste Disposal Methods: DISPOSAL MUST BE IN ACCORDANCE WITH FEDERAL, STATE & LOCAL REGULATIONS (FP N). DISPOSE OF ACCORDING TO LOCAL REGULATIONS.

Handling And Storage Precautions: STORE AT TEMPERATURES ABOVE 32F (0C) IN CONTAINERS CAUTIOUSLY TO ALLOW VENTING OF ANY INTERNAL PRESSURE. AVOID SKIN CONTACT.

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

===== Fire and Explosion Hazard Information =====

Flash Point Method: TOC

Extinguishing Media: MEDIA SUITABLE FOR SURROUNDING FIRE (FP N).

Fire Fighting Procedures: USE NIOSH APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT (FP N). USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS AND CONTROL SPILLAGE.

Unusual Fire/Explosion Hazard: FLAMMABILITY: NO. TOXIC AND ACRID FUMES PRODUCED IN A FIRE. HAZARDOUS COMBUSTION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE. EXPLOSION SENSITIVITY: IMPACT - NONE IDENTIFIED; STATIC DISCHARGE SENSITIVITY - NO. NFPA AND RATINGS: HEALTH - 2; FLAMMABILITY - 0; REACTIVITY - 0.

===== Control Measures =====

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

Ventilation: PROVIDE ADEQUATE EXHAUST VENT (GEN &/OR LOC) IF NEC TO MEET EXPOSURE LIMITS.

REQUIREMENTS. LOC EXHST VENT IS PREF TO MIN DISPERSION OF SMOKE & FU INTO WORK AREA.

Protective Gloves: PLASTIC OR RUBBER GLOVES.

Eye Protection: ANSI APPROVED CHEMICAL WORKERS GOGGLES (FP N).

Other Protective Equipment: EYE WASH & DELUGE SHOWER MEETING ANSI DESI CRITERIA (FP N). IMPERMEABLE APRON WHEN SPLASHING IS LIKELY TO OCCUR

Work Hygienic Practices: WASH HANDS THOROUGHLY BEFORE EATING OR SMOKIN

Supplemental Safety and Health: PHYSICAL DATA: ODOR THRESHOLD: NOT EST COEFFICIENT OF WATER/OIL DISTRIBUTION: NOT ESTABLISHED.

Physical/Chemical Properties

Boiling Point: =100.C, 212.F

B.P. Text: @ 760 MM HG

M.P/F.P Text: N/A; N/E (760 MM HG)

Vapor Pres: 19 MM HG @ 20C

Spec Gravity: 1.2 (WATER = 1 @ 25C)

PH: 3.0

Solubility in Water: 100% BY WT

Appearance and Odor: COLORLESS LIQUID.

Percent Volatiles by Volume: 57

MSDS Transport Information

Transport Information: DOT: NON-HAZARDOUS. W: CLASS D, DIVISION 2, SUB B. TDG: NOT REGULATED.

Regulatory Information

Other Information

Other Information: PRODUCT USE: SOLDERING FLUX FOR ELECTRICAL OR ELECT APPLICATIONS.

HAZCOM Label

Product ID: HF-1189A WATER SOLUBLE SOLDERING FLUX

Cage: 75297

Company Name: KESTER SOLDER DIVISION OF LITTON SYSTEMS, INC.

Street: 515 E. TOUHY AVENUE

City: DES PLAINES IL

Zipcode: 60018

Health Emergency Phone: 800-424-9300

Label Required IND: Y

Date Of Label Review: 05/27/1999

Status Code: A

Origination Code: F

Chronic Hazard IND: Y

Eye Protection IND: YES

Skin Protection IND: YES
Signal Word: WARNING
Respiratory Protection IND: YES
Health Hazard: Moderate
Contact Hazard: Moderate
Fire Hazard: Slight
Reactivity Hazard: None

Hazard And Precautions: ACUTE: INHALATION: FUMES DURING SOLDERING MAY MUCOUS MEMBRANES AND RESPIRATORY SYSTEM. SKIN CONTACT: LOCAL IRRITAT ABSORPTION: NONE. EYE CONTACT: IRRITATION FROM CONTACT WITH LIQUID FROM SOLDERING. INGESTION: BURNING SENSATION IN THE DIGESTIVE TRACT. PROLONGED OR REPEATED SKIN CONTACT CAN RESULT IN A RASH. BREATHING V RESULT IN HEADACHE, DIZZINESS, NAR COSIS AND IRRITATION OF THE MUCOU MEMBRANES. SMOKE DURING SOLDERING CAN CAUSE RESPIRATORY SYSTEM IRRIT DAMAGE. TARGET ORGANS: EYES, SKIN, MUCOUS MEMBRANES AND RESPIRATORY

=====
Disclaimer (provided with this information by the compiling agencies): information is formulated for use by elements of the Department of D The United States of America in no manner whatsoever expressly or im warrants, states, or intends said information to have any applicatio viability by or to any person or persons outside the Department of D nor any person or persons contracting with any instrumentality of th States of America and disclaims all liability for such use. Any pers utilizing this instruction who is not a military or civilian employe United States of America should seek competent professional advice t and assume responsibility for the suitability of this information to particular situation regardless of similarity to a corresponding Dep of Defense or other government situation.