

LITTON/KESTER SOLDER

-- 817 STAINLESS STEEL FLUX

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MSDS Safety Information
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FSC: 3439
MSDS Date: 05/18/1993
MSDS Num: BXQBJ
LIIN: 00N022966
Product ID: 817 STAINLESS STEEL FLUX
MFN: 02
Responsible Party
Cage: 14597
Name: LITTON/KESTER SOLDER
Address: 515 E TOUHY AVE
City: DES PLAINES IL 60018
Info Phone Number: 708-297-1600
Emergency Phone Number: 800-424-9300 (CHEMTREC)
Preparer's Name: D. BERNIER
Published: Y

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Contractor Summary
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Cage: 75297
Name: KESTER SOLDER DIVISION OF LITTON SYSTEMS, INC.
Address: 515 E. TOUHY AVENUE
City: DES PLAINES IL 60018
Phone: 847-297-1600
Cage: 14597
Name: LITTON/KESTER SOLDER
Address: 515 EAST TOUHY AVENUE
City: DES PLAINS IL 60018
Phone: 312-297-1600

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Ingredients
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Cas: 7646-85-7
RTECS #: ZH1400000
Name: ZINC CHLORIDE (SARA 313) (CERCLA)
% Wt: 37
OSHA PEL: 1 MG/M3
ACGIH TLV: 1 MG/M3; 2 STEL FUME
EPA Rpt Qty: 1000 LBS
DOT Rpt Qty: 1000 LBS

Cas: 12125-02-9
RTECS #: BP4550000
Name: AMMONIUM CHLORIDE (CERCLA)
% Wt: 3
OSHA PEL: 10 MG/M3
ACGIH TLV: 10 MG/M3 FUME
EPA Rpt Qty: 5000 LBS
DOT Rpt Qty: 5000 LBS

Cas: 7647-01-0
RTECS #: MW4025000
Name: HYDROCHLORIC ACID; (HYDROGEN CHLORIDE) (SARA 302/313) (CERCLA)
% Wt: 5

OSHA PEL: 5 PPM, C
ACGIH TLV: 5 PPM, C
EPA Rpt Qty: 5000 LBS
DOT Rpt Qty: 5000 LBS

Cas: 7732-18-5
RTECS #: ZC0110000
Name: WATER; (SURFACTANTS)
% Wt: BALANCE
OSHA PEL: N/K (FP N)
ACGIH TLV: N/K (FP N)

RTECS #: 9999999VO
Name: VOLATILE ORGANIC COMPOUND: 0 G/L
OSHA PEL: N/K (FP N)
ACGIH TLV: N/K (FP N)
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Health Hazards Data
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LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.
Route Of Entry Inds - Inhalation: YES
Skin: NO
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/EYES: EXTREMELY IRRITATING TO SKIN AND EYES CAUSING BURNS. INGESTION: CAN PRODUCE BURNS OF MOUTH AND DIGESTIVE TRACT. CHRONIC: PROLONGED OR REPEATED SKIN CONTACT CAN RESULT IN BURNS. SMOKE DURING (EFTS OF OVEREXP)

Explanation Of Carcinogenicity: NOT RELEVANT

Signs And Symptions Of Overexposure: HLTH HAZ: SOLDERING CAN IRRITATE EYES AND RESPIRATORY TRACT AND CAN CAUSE RESPIRATORY IRRITATION AND DAMAGE.

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

First Aid: EYES: FLUSH EYES 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.
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Handling and Disposal
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Spill Release Procedures: NEUTRALIZE WITH SODA ASH OR SLAKED LIME AND FLUSH AWAY WITH PLENTY OF WATER. ABSORBENTS, SUCH AS VERMICULITE, CAN BE USED TO SOAK UP THE SPILLED LIQUID. CLEAN UP RESIDUAL WITH WATER.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods: ACCORDING TO FEDERAL, STATE AND LOCAL REGULATIONS FOR ACIDIC SOLUTIONS CONTAINING ZINC. NEUTRALIZATION MAY BE REQUIRED BEFORE DISPOSAL. CAUTION: EMPTY CONTAINERS MAY CONTAIN PRODUCT RESIDUE. OBSERVE ALL LABEL PRECAUTIONS.

Handling And Storage Precautions: OPEN CONTAINERS CAUTIOUSLY TO ALLOW VENTING OF ANY INTERNAL PRESSURE. AVOID EYE & SKIN CNTCT. AVOID BREATHING SMOKE/FUMES GENERATED DURING SOLDERING.

Other Precautions: PRODUCT IS ACIDIC SOLUTION. WEAR PROTECTIVE EQUIPMENT DURING

HANDLING. ADEQUATE VENTILATION SHOULD BE EMPLOYED TO REMOVE FLUX FUMES FROM

THE WORK AREA.

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Fire and Explosion Hazard Information
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Flash Point Method: TOC
Extinguishing Media: MEDIA SUITABLE FOR SURROUNDING FIRE (FP N).
Fire Fighting Procedures: USE NIOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT (FP N). USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS AND CONTROL VAPORS.
Unusual Fire/Explosion Hazard: TOXIC AND ACRID FUMES MAY BE PRODUCED IN A FIRE.

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Control Measures
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Respiratory Protection: USUALLY NOT REQUIRED. WHEN VENTILATION IS NOT ADEQUATE
TO REMOVE SMOKE FROM THE BREATHING ZONE, A NIOSH/MSHA APPROVED CARTRIDGE TYPE RESPIRATORY SHOULD BE WORN.
Ventilation: PROVIDE ADEQUATE EXHAUST VENTILATION (GENERAL AND/OR LOCAL) TO MEET TLV REQUIREMENTS.
Protective Gloves: PLASTIC OR RUBBER GLOVES.
Eye Protection: ANSI APPRVD CHEM WORKERS GOGGS (SUPDAT)
Other Protective Equipment: ANSI APPROVED EMERGENCY EYE WASH & DELUGE SHOWER (FP N). IMPERMEABLE APRON WHEN SPLASHING IS LIKELY TO OCCUR.
Work Hygienic Practices: WASH HANDS THOROUGHLY BEFORE EATING OR SMOKING.
Supplemental Safety and Health: EYE PROT: AND FULL LENGTH FACESHIELD (FP N).

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Physical/Chemical Properties
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B.P. Text: 215F,102C
Vapor Pres: 24 @ 20C
Vapor Density: <1
Spec Gravity: 1.43 (H*20=1)
PH: <1
Solubility in Water: 100% BY WEIGHT
Appearance and Odor: LIGHT YELLOW LIQUID WITH MILD ODOR.
Percent Volatiles by Volume: 52

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Reactivity Data
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Stability Indicator: YES
Stability Condition To Avoid: NOT ESTABLISHED.
Materials To Avoid: STRONG OXIDIZING MATERIALS AND ALKALINE MATERIALS.
Hazardous Decomposition Products: CORROSIVE FUMES OF HYDROCHLORIC ACID.
Hazardous Polymerization Indicator: NO
Conditions To Avoid Polymerization: NOT RELEVANT

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Toxicological Information
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Ecological Information
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MSDS Transport Information
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Regulatory Information

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Other Information
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HAZCOM Label
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Product ID: 817 STAINLESS STEEL FLUX
Cage: 14597
Company Name: LITTON/KESTER SOLDER
Street: 515 EAST TOUHY AVENUE
City: DES PLAINS IL
Zipcode: 60018
Health Emergency Phone: 800-424-9300 (CHEMTREC)
Label Required IND: Y
Date Of Label Review: 04/17/1995
Status Code: C
Label Date: 04/17/1995
Origination Code: G
Chronic Hazard IND: Y
Eye Protection IND: YES
Skin Protection IND: YES
Signal Word: DANGER
Respiratory Protection IND: YES
Health Hazard: Moderate
Contact Hazard: Severe
Fire Hazard: None
Reactivity Hazard: None
Hazard And Precautions: CORROSIVE. ACUTE: INHALATION: FUMES DURING SOLDERING
MAY IRRITATE MUCOUS MEMBRANES AND RESPIRATORY SYSTEM. SKIN/EYES: EXTREMELY
IRRITATING TO SKIN AND EYES CAUSING BURNS. INGESTION: CAN PRODUCE BURNS OF
MOUTH AND DIGESTIVE TRACT. CHRONIC: P ROLONGED OR REPEATED SKIN CONTACT CAN
RESULT IN BURNS. SMOKE DURING SOLDERING CAN IRRITATE EYES AND RESPIRATORY
TRACT AND CAN CAUSE RESPIRATORY IRRITATION AND DAMAGE.

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