

L. B. ALLEN COMPANY INC -- E100 ALL SOL FLUX

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

FSC: 3439  
NIIN: 00-964-5589  
MSDS Date: 04/01/1991  
MSDS Num: BFZMG  
Product ID: E100 ALL SOL FLUX  
MFN: 01  
Responsible Party  
Cage: EO560  
Name: L. B. ALLEN COMPANY INC  
Address: 725 NORTH CENTRAL AVENUE  
City: WOOD DALE IL 6  
0191  
Info Phone Number: 708-595-2600  
Emergency Phone Number: 800-533-5053  
Review Ind: Y  
Published: Y

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

Cage: EO560  
Name: L. B. ALLEN COMPANY, INC.  
Address: UNKNOWN  
City: UNKNOWN NK 00000  
Phone: UNKNOWN  
Cage: 70279  
Name: L.B. ALLEN CO INC  
Address: 725 N CENTRAL  
City: WOODALE IL 60191-1240  
Phone: 708-595-2600

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

Item Name: FLUX,SOLDERING  
=====

=====  
Ingredients  
=====

Cas: 7647-01-0  
RTECS #: MW4025000  
Name: HYDROCHLORIC ACID; (HCL) (HYDROGEN CHLORIDE) (SARA III)  
% Wt: 35  
OSHA PEL: 5 PPM, C  
ACGIH TLV: 5 PPM, C  
EPA Rpt Qty: 5000 LBS  
DOT Rpt Qty: 5000 LBS

-----  
Cas: 12125-02-9  
RTECS #: BP4550000  
Name: AMMONIUM

CHLORIDE (SARA III)

% Wt: 3

Other REC Limits: 1 PPM (MFR)

OSHA PEL: 10MG/M3;20STEL(FUME)

ACGIH TLV: 10MG/M3;20STEL(FUME)

EPA Rpt Qty: 5000 LBS

DOT Rpt Qty: 5000 LBS

Cas: 7646-85-7

RTECS #: ZH1400000

Name: ZINC CHLORIDE (SARA III) (LIMITS GIVEN FOR ZN CHLORIDE FUME)

% Wt: 31

OSHA PEL: 1 MG/M3/2 STEL

ACGIH TLV: 1 MG/M3/2STEL FUME93

EPA Rpt Qty: 1000 LBS

DOT Rpt Qty: 1000 LBS

Health Hazards Data

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.

Route Of Entry Inds - Inhalation: YES

Skin: YES

Ingestion: YES

Carcinogenicity Inds - NTP: NO

IARC: NO

OSHA: NO

Effects of Exposure: BURNING OR BITING SENSATION ON SKIN, COUGHING, IRRITATION OF EYES OR THROAT.

Explanation Of Carcinogenicity: NOT RELEVANT.

Signs And Symptoms Of Overexposure: SEE HEALTH HAZARDS.

Medical Cond Aggravated By Exposure: NONE SPECIFIED BY MANUFACTURER.

First Aid: SKIN/MUCOUS

MEMBRANE:FLUSH W/LARGE AMOUNTS OF WATER & PAT ON

SODIUM BICARBONATE (BAKING SODA). INHAL:REMOVE TO ADEQUATE VENTILATION &

CALL MD. EYES:FLUSH W/POTABLE WATER FOR AT LEAST 15 MINS. GET MEDIC AL

ATTENTION (FP N). INGEST:GIVE A TEASPOON OF MILK OF MAGNESIA OR TAKE MILK OR

WATER IN LARGE AMOUNTS & CALL MD.

Handling and Disposal

Spill Release Procedures: FLUSH WITH LARGE

AMOUNTS OF H<sub>2</sub>O IF PRODUCT IS

SPILLED. AVOID BREATHING VAPORS OR CONTACT WITH SKIN.

Neutralizing Agent: SODA ASH OR LIMESTONE.

Waste Disposal Methods: NEUTRALIZE W/SODA ASH OR LIMESTONE & FLUSH W/ADEQUATE AMOUNTS OF WATER. DISPOSAL MUST BE IN ACCORDANCE W/FEDERAL, STATE & LOCAL REGULATIONS (FP N).

Handling And Storage Precautions: STORE IN PLASTIC LINED DRUMS OR GLASS BOTTLES. KEEP FROM EXCESSIVE HEAT IN WELL VENTILATED ROOM.

Other Precautions: AVOID CONTACT W/SKIN, EYES & CLOTHING. KEEP OUT OF CHILDREN'S REACH.

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

Flash Point Text: NONE

Extinguishing Media: FOAM OR BICARBONATE OF SODA, COPIOUS AMOUNTS OF WATER.

Fire Fighting Procedures: WEAR NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT (FP N). FLOOD W/WATER. KEEP GOOD VENTILATION AT ALL TIMES.

Unusual Fire/Explosion Hazard: PRODUCT PRODUCES IRRITATING TOXIC FUMES & BURNS TO SKIN OR TISSUE.

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

Respiratory Protection: NIOSH/MSHA ACID TYPE OR OXYGEN MASK.

Ventilation: MECHANICAL VENTILATION (GOOD FAN)RECOMMENDED.

Protective Gloves: RUBBER

Eye Protection: CHEM WORK GOG & FULL LENGTH FCSHLD (FP N)

Other Protective Equipment: RUBBER APRON OR JACKET & BOOTS.

Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.

Supplemental

Safety and Health: NONE SPECIFIED BY MANUFACTURER.

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

B.P. Text: >228F,>109C

Spec Gravity: 0.908 (H<sub>2</sub>O=1)

Evaporation Rate & Reference: >1 (ETHER=1)

Solubility in Water: SOLUBLE

Appearance and Odor: STRONGLY ACIDIC ODOR, GREENISH LIQUID.

Percent Volatiles by Volume: 52

=====  
Reactivity Data  
==

=====  
Stability Indicator: YES  
Stability Condition To Avoid: OVERHEATING OR USE IN UNVENTILATED AREAS.  
Materials To Avoid: AVOID REACTION W/STRONG ALKALIES, CHLORINE TYPE BLEACHES OR  
OTHER HOUSEHOLD CHEMICALS.  
Hazardous Decomposition Products: PRODUCES STRONG ACIDS ON DECOMPOSITION.  
Hazardous Polymerization Indicator: NO  
Conditions To Avoid Polymerization: NOT RELEVANT.  
=====

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

=====  
Ecological Information  
=====  
=====

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

=====  
Regulatory Information  
=====  
=====

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

=====  
Transportation Information  
=====

Responsible Party Code: EO560  
Trans ID NO: 95127  
Product ID: E100 ALL SOL FLUX  
MSDS Prepared Date: 04/01/1991  
Review Date: 10/19/1984  
MFN: 1  
Multiple KIT Number: 0  
Review IND: Y  
Additional Data: NOT REGULATED FOR SHIPPING.  
=====

=====  
Detail DOT Information  
=====

DOT PSN Code: ZZZ  
DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION  
=====

=====  
Detail IMO Information  
=====

IMO PSN Code: ZZZ  
IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION  
=====

=====  
Detail IATA Information  
=

=====  
IATA PSN Code: ZZZ  
IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION  
=====

Detail AFI Information

=====  
AFI PSN Code: ZZZ  
AFI Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION  
=====

HAZCOM Label

=====  
Pro  
duct ID: E100 ALL SOL FLUX  
Cage: EO560  
Assigned IND: Y  
Company Name: L. B. ALLEN COMPANY, INC.  
Street: UNKNOWN  
City: UNKNOWN NK  
Zipcode: 00000  
Health Emergency Phone: 800-533-5053  
Label Required IND: Y  
Date Of Label Review: 01/19/1993  
Status Code: C  
Label Date: 01/19/1993  
Origination Code: G  
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: AVOID ALKALIES, CHLORINE TYPE BLEACHES AND OTHER  
HOUSEHOLD CHEMICALS. ACUTE: BURNING OR BITING SENSATION ON SKIN, COUGHING,  
IRRITATION OF EYES OR THROAT. HARMFUL OR FATAL IF SWALLOWED. CAN CAUSE SEVE  
RE BURNS. VAPORS HARMFUL. CHRONIC: NONELISTED BY MANUFACTURER.  
=====

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, states, or intends said information to have any application, use or viability by or to any person or persons outside the Department of Defense nor any person or persons contracting with any instrumentality of the United States of America and disclaims all liability for such use. Any person utilizing this instruction who is not a military or civilian employee of the United States of America should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation regardless of similarity to a corresponding Department of Defense or other government situation.