

LA-CO INDUSTRIES INC/MARKAL CO -- ALUMINUM FLUX PASTE

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MSDS Safety Information
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FSC: 3439
MSDS Date: 11/28/1995
MSDS Num: CFWLF
LIIN: 00N081079
Product ID: ALUMINUM FLUX PASTE
MFN: 01
Responsible Party
Cage: 08854
Name: LA-CO INDUSTRIES INC/MARKAL CO
Address: 1201 PRATT BLVD
City: ELK GROVE VILLAGE IL 60007-5746
Info Phone Number: 708-956-7600
Emergency Phone Number: 708-956-7600
Published: Y

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Contractor Summary
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Cage: 08854
Name: LA-CO INDUSTRIES, INC./MARKAL CO.
Address: 1201 PRATT BLVD.
City: ELK GROVE VILLIAGE IL 60007-5746
Phone: 847-956-7600

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Ingredients
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Cas: 7772-99-8
RTECS #: XP8700000
Name: TIN (II) CHLORIDE (1:2); (STANNOUS CHLORIDE, SOLID)
% Wt: 15
OSHA PEL: 2 MG SN/M3
ACGIH TLV: 2 MG SN/M3

Cas: 7646-85-7
RTECS #: ZH1400000
Name: ZINC CHLORIDE (SARA 313) (CERCLA)
% Wt: 10
OSHA PEL: 1 MG/M3
ACGIH TLV: 1 MG/M3/2 STEL(FUME)
EPA Rpt Qty: 1000 LBS
DOT Rpt Qty: 1000 LBS

Cas: 16984-48-8
RTECS #: LM6290000
Name: FLUORIDE; (FLUORIDES)
% Wt: 10
OSHA PEL: 1 MG/M3
ACGIH TLV: 1 MG/M3

RTECS #: 9999999VO
Name: VOLATILE ORGANIC COMPOUND: 0 LBS/GAL (U.S.); 0 KG/L
OSHA PEL: N/K (FP N)
ACGIH TLV: N/K (FP N)

Name: FIRST AID PROC: FORM; MILK, CALCIUM GLUCONATE/MAGNESIA; OTHERWISE, GIVE LGE QTYS OF WATER. CALL MD AT ONCE.

Name: ING 5: DO NOT GIVE CARBONATES/BICARBONATES. INHAL: IMMED REMOVE TO FRESH AIR. IF BRTHG IS DFCLT, GIVE OXYGEN IF

Name: ING 6: A QUALIFIED OPERATOR IS AVAIL. GET MED EVALUATION. IF NOT BRTHG, GIVE ARTF RESP, PREF MOUTH-TO-MOUTH.

Name: ING 7: CALL MD AND GIVE SUPPORTIVE TREATMENT FOR CHILLS OR FEVER.

Name: EYE PROTECTION: AND FULL LENGTH FACESHIELD (FP N).

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: ACUTE: EYES: CAUSES SEV BURNS. MAY CAUSE BLINDNESS.

SKIN:CONT MAY CAUSE SEV IRRIT, ESP ON ABRADED SKIN. INGEST: MAY BE FATAL.

SYMPS MAY INCL SALIVATION, NAUS, VOMIT, DIARR & ABDOM PAIN. POTASSIUM ION

MAY CAUSE LOWER BLOOD PRESS; COMA, DEAT H MAY RSLT. FLUORIDE ION CAN REDUCE

SERUM CALCIUM LEVELS, POSS (EFTS OF OVEREXP)

Explanation Of Carcinogenicity: NOT RELEVANT.

Signs And Symptions Of Overexposure: HLTH HAZ: CAUSING FATAL HYPOCALCEMIA

(CALCIUM DEFICIENCY IN BLOOD). INHAL:CAN BE HIGHLY IRRIT TO NOSE &

THROAT. MAY CAUSE CHILLS, LABORED BRTHG, FEVERS, UNPRODUCTIVE COUGH.

FLUORIDE ION MAY CAUSE HYPOCALCEMIA. INFLAMM & NECROSIS OF MUC MEMB MAY

OCCUR.CHRONIC: EYES: PRLNG CONT MIGHT CAUSE MORE SEV BURNS. (SUP DAT)

Medical Cond Aggravated By Exposure: NOT DETERMINED.

First Aid: EYES: FLUSH IMMED W/LGE AMTS OF WATER FOR AT LEAST 15-20 MIN. HOLD

EYELIDS OPEN TO ALLOW THORO RINSING. SEEK MED EVALUATION OF POTENTIAL

CORNEAL DMG. SKIN: PROMPTLY WASH W/SOAP & WATER; THEN FLUSH W/WATER UNTIL

ALL FLUX IS REMOVED. REMOVE C ONTAM CLTHG PROMPTLY & WASH BEFORE REUSE. IF

SYMPS PERSIST, GET MED ATTN. INGEST: DO NOT INDUCE VOMIT. IF CONSCIOUS,

GIVE SOL CALCIUM/MAGNESIUM IN ANY

Handling and Disposal

Spill Release Procedures: USE RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT.

CONTAIN SPILL IF POSSIBLE. ABSORB WITH A SUITABLE MATERIAL SUCH AS

ABSORBENT CLAY, SAND OR SAWDUST.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods: DISPOSE OF IN ACCORDANCE WITH APPLICABLE LOCAL, STATE

AND FEDERAL REGULATIONS.

Handling And Storage Precautions: HANDLE AS TOXIC SUBSTANCE. USE RECOMMENDED

PERSONEL PROTECTIVE EQUIPMENT. STORE IN A COOL, DRY AREA.

Other Precautions: USERS OF THIS PRODUCT MUST BE PROPERLY TRAINED

AND QUALIFIED IN ITS USE.

Fire and Explosion Hazard Information

Flash Point Text: >200F,>93C

Extinguishing Media: WATER, DRY CHEMICAL, FOAM, CARBON DIOXIDE.
Fire Fighting Procedures: WEAR NIOSH APPROVED SCBA & FULL PROTECTIVE
EQUIPMENT (FP N). KEEP PERSONNEL REMOVED AND UPWIND OF ANY FIRE. USE WATER
SPRAY TO KEEP MATERIAL COOL.
Unusual Fire/Explosion Hazard: FIRE MAY DECOMPOSE FLUX INTO SKIN-PENETRATING
AND TOXIC GASES.

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Control Measures
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Respiratory Protection: NIOSH APPROVED DUST OR MIST RESPIRATOR.
Ventilation: NORMAL ROOM VENTILATION. LOCAL EXHAUST IN CONFINED AREAS.
Protective Gloves: RUBBER GLOVES.
Eye Protection: ANSI APPRVD CHEM WORKERS GOGG &
Other Protective Equipment: EMERGENCY EYEWASH AND DELUGE SHOWER MEETING ANSI
DESIGN CRITERIA (FP N).
Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING. CHANGE CONTAMINATED
CLOTHING. WASH AFTER USE.
Supplemental Safety and Health: EFTS OF OVEREXP: SKIN: PRLNG CONT MIGHT CAUSE
MORE SEV BURNS & HYPOCALCEMIA W/RISK OF DEATH. INGEST: MAY CAUSE OSSEOUS
FLUOROSIS (INCRD RADIOGRAPHIC DENSITY OF BONES). MAY CAUSE KIDNEY DMG,
ASTHMA & SYMPS RESEMBLING RHEUMATISM. INHAL: NOT D ETERMINED. TARGET ORGAN
EFTS:CHRONIC INGEST MAY CAUSE KIDNEY DMG.

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Physical/Chemical Properties
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B.P. Text: >200F,>93C
Spec Gravity: 1.5 (H*20=1)
PH: 8
Solubility in Water: SOLUBLE
Appearance and Odor: HONEY COLORED VISCOUS LIQUID; AMMONIA-LIKE ODOR
Percent Volatiles by Volume: 0

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Reactivity Data
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Stability Indicator: YES
Stability Condition To Avoid: NONE KNOWN.
Materials To Avoid: STRONG OXIDIZERS, SODIUM NITRITE, NITROSATING AGENTS.
Hazardous Decomposition Products: AMMONIA. CARBON MONOXIDE MAY BE FORMED ON
BURNING IN LIMITED AIR SUPPLY.
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: ALUMINUM FLUX PASTE
Cage: 08854
Company Name: LA-CO INDUSTRIES, INC./MARKAL CO.
Street: 1201 PRATT BLVD.
City: ELK GROVE VILLIAGE IL
Zipcode: 60007-5746
Health Emergency Phone: 708-956-7600
Label Required IND: Y
Date Of Label Review: 12/08/1997
Status Code: C
Label Date: 12/08/1997
Origination Code: G
Chronic Hazard IND: Y
Eye Protection IND: YES
Skin Protection IND: YES
Signal Word: DANGER
Respiratory Protection IND: YES
Health Hazard: Severe
Contact Hazard: Severe
Fire Hazard: Slight
Reactivity Hazard: None
Hazard And Precautions: COMBUSTIBLE. ACUTE: EYES: CAUSES SEVERE BURNS. MAY
CAUSE BLINDNESS. SKIN: CONTACT MAY CAUSE SEVERE IRRITATION, ESPECIALLY ON
ABRADED SKIN. INGESTION: MAY BE FATAL. SYMPTOMS MAY INCLUDE SALIVATION,
NAUSEA, VOMITING, DIARRHEA AND ABDOMINAL PA IN. POTASSIUM ION MAY CAUSE
LOWER BLOOD PRESSURE; COMA, DEATH MAY RESULT. FLUORIDE ION CAN REDUCE SERUM
CALCIUM LEVELS, POSSIBLY CAUSING FATAL HYPOCALCEMIA. INHALATION: HIGHLY
IRRITATING TO NOSE AND THROAT. CHRONIC: EYES/SKIN: SEVERE BURNS.
INGESTION: OSSEOUS FLUOROSIS, KIDNEY DAMAGE, ASTHMA.

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