

LIQUID DEVELOPMENT INC -- LDC-04 ACTIVATOR AND ETCH

MSDS Safety Information

FSC: 6850
NIIN: 01-197-7786
MSDS Date: 01/01/1992
MSDS Num: BJMJY
Product ID: LDC-04 ACTIVATOR AND ETCH
MFN: 01
Responsible Party
Cage: 57868
Name: LIQUID DEVELOPMENT CO INC
Address: 3748 E 91ST STREET
City: CLEVELAND O
H 44105-2156
Info Phone Number: 216-641-9366
Emergency Phone Number: 216-641-9366/800-424-9300(CHEMTREC)
Proprietary Ind: Y
Review Ind: Y
Published: Y

Contractor Summary

Cage: 57868
Name: LIQUID DEVELOPMENT CO INC
Address: 3748 E 91ST STREET
City: CLEVELAND OH 44105-2156
Phone: 216-641-9366/800-424-9300(CHEMTREC)

Item Description
Information

Item Manager: S9G
Item Name: ETCHING SOLUTION
Specification Number: NONE
Type/Grade/Class: NONE
Unit of Issue: CO
Quantitative Expression: 00000000004LI
UI Container Qty: 1
Type of Container: IP1 OR IP2/4G

Ingredients

Name: *** PROPRIETARY ***

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Health Hazards Data

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LD50 LC50 Mixture: ORAL LD50 (RAT) IS UNKNOWN

Route Of Entry Inds - Inhalation: YES

Skin: NO

Ingestion: YES

Carcinogenicity Inds - NTP: NO

IARC: NO

OSHA: NO

Effects of Exposure: ACUTE-INGESTION:MAY BURN MOUTH,THROAT, STOMACH & ERODE TEETH.EYES:IRRITATION & BURNS.LONG TERM MAY CAUSE LOSS OF SIGHT.SKIN:IRRITATION & INFLAMMATION.INHALATION:BURNING,CHOKING,COUGHING. LONG TERM MAY CAUSE RESPI

RATORY TRACT DAMAGE & BREATHING DIFFICULTIES.

CHRONIC-SKIN:MAY CAUSE BURNS & RASHES.

Explanation Of Carcinogenicity: NO EVIDENCE HAS BEEN FOUND TO SUSPECT THESE CHEMICALS.

Signs And Symptions Of Overexposure: IRRITATION OF EYES. IRRITATION AND INFLAMMATION OF SKIN. COUGHING AND BURNING OF LUNGS. BURNING OF MOUTH, THROAT AND STOMACH. EROSION OF TEETH.

Medical Cond Aggravated By Exposure: IMPAIRED PULMONARY FUNCTION. RESPIRATORY, SKIN, AND EYE DISORDERS.

First Aid: INHALATION:REM

OVE TO FRESH AIR.IF NOT BREATHING GIVE CPR.GET MEDICAL

ATTENTION.EYE:IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR 15 MINUTES.GET IMMEDIATE MEDICAL ATTENTION.SKIN: IMMEDIATELY WASH WIT H PLENTY OF WATER.REMOVE CONTAMINATED CLOTHING. INGESTION:SEEK IMMEDIATE MEDICAL ATTENTION.DO NOT INDUCE VOMITING.

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Handling and Disposal

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Spill Release Procedures: EVACUATE AND VENTILATE AREA.WE

AR PROTECTIVE

CLOTHING.SMOTHER WITH EXCESS NEUTRALIZING AGENTS.SCOOP INTO CONTAINER FOR PROPER DISPOSAL.DO NOT FLUSH INTO SEWER SYSTEM.

Neutralizing Agent: SODA ASH

Waste Disposal Methods: DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

Handling And Storage Precautions: STORE BETWEEN 45-75F,OUT OF DIRECT LIGHT,IN A WELL VENTILATED AREA.KEEP CONTAINERS TIGHTLY SEALED.

Other Precautions: DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING.DO

NOT BREATHE
VAPOR OR MIST.USE WITH ADEQUATE VENTILATION.WASH THOROUGHLY AFTER HANDLING.DO
NOT EAT,DRINK OR SMOKE IN WORK AREA.

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Fire and Explosion Hazard Information

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Flash Point Text: NONE
Extinguishing Media: WATER, CARBON DIOXIDE, DRY CHEMICAL.
Fire Fighting Procedures: FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA &
CHEMICAL RESISTANT CLOTHING. USE WATER SPRAY TO COOL NEAR
BY CONTAINERS
EXPOSED TO FIRE.
Unusual Fire/Explosion Hazard: CONTACT WITH COMMON METALS MAY PRODUCE FLAMMABLE
HYDROGEN GAS.

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Control Measures

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Respiratory Protection: USE NIOSH/MSHA APPROVED RESPIRATOR AS NECESSARY.
Ventilation: LOCAL EXHAUST VENTILATION IS REQUIRED.
Protective Gloves: RUBBER
Eye Protection: SAFETY CHEMICAL GOGGLES & FACE SHIELD
Other Protective Equipment: EYE WASH
STATION & SAFETY SHOWER.CHEMICAL RESISTANT
BOOTS, APRON, AND PROTECTIVE CLOTHING AS REQUIRED BY JOB CONDITIONS.
Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND
RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.
Supplemental Safety and Health: TRADE SECRET INFORMATION WILL BE DISCLOSED ONLY
UPON FULL COMPLIANCE WITH CRITERIA LISTED IN OSHA STANDARD "HAZARD
COMMUNICATION", 29 CFR 1910.1200

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Phy
sical/Chemical Properties

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HCC: C1
B.P. Text: >200F,>93C
M.P/F.P Text: UNKNOWN
Decomp Text: UNKNOWN
Vapor Pres: UNKNOWN
Vapor Density: UNKNOWN
Spec Gravity: 1.11 - 1.13
PH: 0- 1.0
Evaporation Rate & Reference: UNKNOWN
Solubility in Water: COMPLETE
Appearance and Odor: CLEAR LIQUID, SLIGHT HYCHLORIC ACID ODOR
Corrosion Rate: UNKNOWN

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Reactivity Data

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Stability Indicator: YES

Stability Condition To Avoid: NONE

Materials To Avoid: ALKALINE MATERIALS, COMMON METALS

Hazardous Decomposition Products: NONE

Hazardous Polymerization Indicator: NO

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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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Transportation Information

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Responsible Party Cage: 57868

Trans ID NO: 114448

Product ID: LDC-04 ACTIVATOR AND ETCH

MSDS Prepared Date: 01/01/1992

Review Date: 07/22/1993

MFN: 1

Net Unit Weight: 9.25 LBS

Multiple KIT Number: 0

Review IND: Y

Unit Of Issue: CO

Container QTY: 1

Type Of Container: IP1 OR IP2/4G

Additional Data: CONTAINER SHALL CONFORM TO UN CERTIFIED IP2 PLASTIC. PACKAGE
IN A UN CERTIFIED 4G FIBERBOARD BOX WIT H ABSORBANT MATERIAL. MARK IAW ALL UN
REQUIREMENTS.

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Detail DOT Information

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DOT PSN Code: HJG
DOT Proper Shipping Name: HYDROCHLORIC ACID
Hazard Class: 8
UN ID Num: UN1789
DOT Packaging Group: II
Label: CORROSIVE
Special Provision: A3,A6,B3,B15,N41,T9,T27
Packaging Exception: 154
Non Bulk Pack: 202
Bulk Pack: 242
Max Qty Pass: 1 L
Max Qty Cargo: 30 L
Vessel Stow Req: C

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Detail IMO Information

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IMO PSN Code: IEX
IMO Proper Shipping Name: HYDROCHLORIC ACID
IMDG Page Number: 8183
UN Number: 1789
UN Hazard Class: 8
IMO Packaging Group: II/III
Subsidiary Risk Label: -
EMS Number: 8-03
MED First Aid Guide NUM: 700

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Detail IATA Information

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IATA PSN Code: NPG
IATA UN ID Num: 1789
IATA Proper Shipping Name: HYDROCHLORIC ACID
IATA UN Class: 8
IATA Label: CORROSIVE
UN Packing Group: II
Packing Note Passenger: 809
Max Quant Pass: 1L
Max Quant Cargo: 30L
Packaging Note Cargo: 813
Exceptions: A3

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Detail AFI Information

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AFI PSN Code: NPG
AFI Proper Shipping Name: HYDROCHLORIC ACID, SOLUTION
AFI Hazard Class: 8
AFI UN ID NUM: UN1789
AFI Packing Group: II
Special Provisions: P4, A3, A6, N41
Back Pack Refere

nce: A12.3

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HAZCOM Label

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Product ID: LDC-04 ACTIVATOR AND ETCH

Cage: 57868

Company Name: LIQUID DEVELOPMENT CO INC

Street: 3748 E 91ST STREET

City: CLEVELAND OH

Zipcode: 44105-2156

Health Emergency Phone: 216-641-9366/800-424-9300(CHEMTREC)

Label Required IND: Y

Date Of Label Review: 07/22/1993

Status Code: C

Label Date: 07/22/1993

Origination Code: F

Chronic Hazard IND: Y

Eye Protecti

on IND: YES

Skin Protection IND: YES

Signal Word: DANGER

Respiratory Protection IND: YES

Health Hazard: Slight

Contact Hazard: Severe

Fire Hazard: None

Reactivity Hazard: None

Hazard And Precautions: CORROSIVE! ACUTE-INGESTION:MAY BURN MOUTH,THROAT,
STOMACH & ERODE TEETH.EYES:IRRITATION & BURNS.LONG TERM MAY CAUSE
LOSS OF SIGHT.SKIN:IRRITATION &
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INGESTION:SEEK IMMEDIATE MEDICAL ATTENTION.DO NOT INDUCE VOMITING.

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