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Product ID:LDC-01 ELECTROCLEAN MSDS Date:01/01/1992 FSC:6850 NIIN:01-046-0291 MSDS Number: BGHPF === Responsible Party === Company Name: LIQUID DEVELOPMENT CO INC Address:3748 E 91ST STREET City:CLEVELAND State:OH ZIP:44105 Country:US Info Phone Num:216-641-9366 Emergency Phone Num:216-641-9366/ 800-424-9300(CHEMTREC) Preparer's Name: DOUG HUTCHINSON CAGE:57868 === Contractor Identification === Company Name: LIQUID DEVELOPMENT CO INC Address:3748 E 91ST STREET Box:City:CLEVELAND State:OH ZIP:44105-2156 Country:US Phone:216-641-9366/800-424-9300(CHEMTREC) CAGE:57868

Ingred Name:WATER CAS:7732-18-5 RTECS #:ZC0110000 Fraction by Wt: 70 - 80% Other REC Limits:NONE SPECIFIED

Ingred Name:SODIUM HYDROXIDE (SARA III) CAS:131

0-73-2 RTECS #:WB4900000 Fraction by Wt: 1 - 10% Other REC Limits:NONE SPECIFIED OSHA PEL:2 MG/M3 ACGIH TLV:C 2 MG/M3; 9293 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name:CITRIC ACID, ANHYDROUS CAS:77-92-9 RTECS #:GE7350000 Fraction by Wt: 10 - 20% Other REC Limits:NONE SPECIFIED

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chron ic:ACUTE & CHRONIC-INGESTION:BURNS MOUTH, THROAT & STOMACH. DEATH MAY OCCUR. EYES: IRRITATION & BURNS POSSIBLE BLINDNESS.SKIN: IRRITATION LEADING TO BURNS & SCARRING.INHALATION: IRRITATION & BURNS.SEVERE PNEU MONITIS MAY OCCUR. Explanation of Carcinogenicity:NO EVIDENCE HAS BEEN FOUND TO SUSPECT THESE CHEMICALS. Effects of Overexposure: IRRITATION OF EYES. IRRITATION AND INFLAMMATION OF SKIN, COUGHING AND BURNING OF LUNGS, BURNING OF MOUTH, THROAT AND STOMACH. Medical Cond Aggravated by Exposure: IMPAIRED PULMONARY FUNCTION. RESPIRATORY, SKIN, AND EYE DISORDERS.

First Aid:SEEK MEDICAL ATTENTION.INHALATION:REMOVE TO FRESH AIR. EYE:IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR 15 MINUTES. SKIN:IMMEDIATELY WASH WITH PLENTY OF WATER.REMOVE CONTAMINATED CLOTHING. INGESTIO N:DO NOT INDUCE VOMITING.

Flash Point:NON

E Extinguishing Media:WATER, CARBON DIOXIDE, DRY CHEMICAL. Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS & CHEMICAL RESISTANT CLOTHING. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED Unusual Fire/Explosion Hazard:CONTACT WITH ALUMINUM, ZINC OR TIN MAY PRODUCE FLAMMABLE HYDROGEN GAS.
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Spill Release Procedures:EVACUATE AND VENTILATE AREA.WEAR PROTECTIVE CLOT
HING.SMOTHER WITH EXCESS NEUTRALIZING AGENTS.SCOOP INTO CONTAINER FOR PROPER DISPOSAL.DO NOT FLUSH INTO SEWER SYSTEM. Neutralizing Agent:DILUTE ACETIC ACID
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Handling and Storage Precautions:STORE BETWEEN 45-75F,OUT OF DIRECT LIGHT,IN A WELL VENTILATED AREA.KEEP CONTAINERS TIGHTLY SEALED,AWAY FROM ACIDS.
Other Precautions:DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING.WASH THOROUGHLY AFTER HANDLING.DO NOT EAT,DRINK OR SMOKE IN WORK AREA.
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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 HYGI ENE PRACTICES AND
RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.
Supplemental Safety and Health MSDS RECEIVED BY DGSC:OCT 23,1987.
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HCC:B1 Boiling Pt:B.P. Text:>200F,>93C Spec Gravity:1.044- 1.054 pH:13.00 Solubility in Water:COMPLETE Appearance and Odor:CLEAR LIQUID, NO NOTICEABLE ODOR

Stability Indicator/Materials to Avoid:Y

ES ACIDS, ALUMINUM, ZINC & TIN Stability Condition to Avoid:CONTACT WITH ACIDS, ALUMINUM, ZINC OR TIN. Hazardous Decomposition Products:NONE

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

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