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LIQUID DEVELOPMENT INC -- LDC-2801 NICKEL

MSDS Safety Information

FSC: 6810 NIIN: 01-197-7797 MSDS Date: 01/01/1996 MSDS Num: BJMJZ Product ID: LDC-2801 NICKEL MFN: 01 Responsible Party Cage: 57868 Name: LIQUID DEVELOPMENT CO INC Address: 3748 E 91ST STREET City: CLEVELAND OH 44105 In fo 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 Manager: S9G Item Name: PLATING SOLUTION,NI Specification Number: NONE Type/Grade/Class: NONE Unit of Issue: GL UI Container Qty: 4 L (MSDS) Type of Container: BOTTLE (MSDS)
Ingredients
<pre>====================================</pre>
Health Hazards Data

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER. Route Of Entry Inds - Inhalation: YES Skin: NO Ingestion: YES Carcinogenicity Inds - NTP: YES IARC: YES **OSHA: YES** Effects of Exposure: ACUTE-INGESTION: MAY CAUSE VOMITING. BURNING IN MOUTH AND MIGHT CAUSE SHOCK.EYES/NOSE/THROAT: IRRITATION.SKIN: NICKEL ITCH OR RASH.CHRONIC-LONG TERM EXPOSURE CAN CAUSE BLISTERING OF SKIN, COUGHING & amp; DIFFIC ULTY OF BREATHING. Explanation Of Carcinogenicity: ALL CONCLUDED THAT NICKEL COMPOUNDS MAY REASONABLY BE ANTICIPATED TO BE CARCINOGENS. Signs And Symptions Of Overexposure: WATERING EYES, COUGHING, NASAL IRRITATION, SKIN RASH, BURNING OF MOUTH AND VOMITING Medical Cond Aggravated By Exposure: CHRONIC RESPIRATORY DISEASE, SKIN DISORDERS, KIDNEY DISEASE, LIVER DISEASE AND EYE DISORDERS First Aid: INHALATION: REMOVE 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. _____ Handling and Disposal Spill Release Procedures: EVACUATE AND VENTILATE AREA.WEAR 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: SEND TO APPROVED TREATMENT/DISPOSAL FACILITY. DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS. Handling And Storage Precautions: STORE BETWEEN 50-75F, 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.

Fire and Explosion Hazard Information

_____ Flash Point Text: NONE Extinguishing Media: WATER, CARBON DIOXIDE, DRY CHEMICAL. Fire Fighting Procedures: FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & amp; CHEMICAL RESISTANT CLOTHING. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE. Unusual Fire/Explosion Hazard: CARBON MONOXIDE MAY BE PRODUCED DURING A FIRE. ______ **Control Measures** 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: DO NOT GET ON SKIN, IN EYES OR ON CLOTHING. DO NOT BREATHE VAPORS OR MISTS. WASH THOROUGHLY AFTER HANDLING. TRADE SECRET INFORMATION WILL BE DISCLOSED ONLY UPON FULL COMPLIANCE WITH CRITERIA LISTED IN OSHA STANDARD "HAZARD COMMUNICATION", 29 CFR 1910.1200 Physical/Chemical Pro perties ____ _____ HCC: C1 B.P. Text: >200F,>93C M.P/F.P Text: UNKNOWN Decomp Text: UNKNOWN Vapor Pres: UNKNOWN Vapor Density: UNKNOWN Spec Gravity: 1.25 - 1.35 PH: 0-1.5 Evaporation Rate & amp; Reference: UNKNOWN Solubility in Water: COMPLETE

Appearance and Odor: DARK GREEN LIQUID, FORMIC ACID ODOR Corrosion Rate: UNKNOWN

Reactivity Data

===== Stability Indicator: YES Stability Condition To Avoid: NONE Materials To Avoid: STRONG CAUSTICS, SULFURIC ACID CONCENTRATED Hazardous Decomposition Products: CARBON MONOXIDE DURING A FIRE. Hazardous Polymerization Indicator: NO Conditions To Avoid Polymerization: NOT REVELANT _____ Toxicological Information _____ ______ **Ecological Information** ______ _____ **MSDS** Transport Information _____ _____ Regulatory Information _____ _____ Other Information _____ _____ _____ Transportation Information _____ Responsible Party Cage: 57868 Trans ID NO: 114454 Product ID: LDC-2801 NICKEL MSDS Prepared Date: 01/01/1996 Review Date: 12/20/1996 **MFN: 1** Tech Entry NOS Shipping Nm: NICKEL SULFATE Net Unit Weight: UNKNOWN Multiple KIT Number: 0 **Review IND: Y** Unit Of Issue: GL Container QTY: 4 L (MSDS) Type Of Container: BOTTLE (MSDS) Additional Data: THE MFG. (LYNN HUTCHINSON) HAS STATED THIS ITEM IS SHIPP

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SHOWN. IF A DIFFERENT LABEL IS USED ON SHIPMENTS SUCH AS "ENVIRONMENTALLY HAZARD" THE A COMPETITOR HAS USED SUCH A LABEL.

Detail DOT Information

_____ DOT PSN Code: DWE Symbols: G DOT Proper Shipping Name: CORROSIVE LIQUIDS, N.O.S. Hazard Class: 8 **UN ID Num: UN1760** DOT Packaging Group: II Label: CORROSIVE Special Provision: B2,T14 Packaging Exception: 154 Non Bulk Pack: 202 Bulk Pack: 242 Max Qty Pass: 1 L Max Qty Cargo: 30 L Vessel Stow Req: B Water/Ship/Other Reg: 40 _____ Detail IMO Information _____ IMO PSN Code: ESH IMO Proper Shipping Name: CORROSIVE LIQUID, N.O.S. o IMDG Page Number: 8147 UN Number: 1760 **UN Hazard Class: 8** IMO Packaging Group: I/II/III Subsidiary Risk Label: -EMS Number: 8-15 MED First Aid Guide NUM: 760 _____ ================= Detail IATA Information _____ IATA PSN Code: HKR IATA UN ID Num: 1760 IATA Proper Shipping Name: CORROSIVE LIQUID, N.O.S. * IATA UN Class: 8 IATA Label: CORROSIVE UN Packing Group: II Packing Note Passenger: 808 Max Quant Pass: 1L Max Quant Cargo: 30L Packaging Note Cargo: 812 _____ Detail AFI Information ______ AFI PSN Code: HKR

Symbols: * AFI Proper Shipping Name: CORROSIVE LIQUID, N.O.S. AFI Hazard Class: 8 AFI UN ID NUM: UN1760 AFI Packing Group: II Special Provisions: P4 Back Pack Reference: A12.3

HAZCOM Label

Product ID: LDC-2801 NICKEL 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(C HEMTREC) Label Required IND: Y Date Of Label Review: 06/12/1996 Status Code: C MFG Label NO: UNKNOWN Label Date: 06/12/1996 Origination Code: F 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: None Reactivity Hazard: None Hazard And Precautions: ACUTE-INGESTION:MAY CAUSE VOMITING, BURNING IN MOUTH AND MIGHT CAUSE SHOCK.EYES/NOSE/THROAT: IRRITATION.SKIN:NICKEL ITCH O R

RASH.CHRONIC-LONG TERM EXPOSURE CAN CAUSE BLISTERING OF SKIN, COUGHING & amp; DIFFIC ULTY OF BREATHING.STORAGE-STORE BETWEEN50-75F, OUT OF DIRECT LIGHT, IN A WELL VENTILATED AREA.KEEP CONTAINERS TIGHTLY SEALED. FIRST AID-INHALATION:REMOVE TO FRESH AIR.IF NOT BREATHING GIVE CPR.GET MEDI CAL ATTENTION.EYE:IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION.SKIN:IMMEDIATELY WASH WITH PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING.INGESTION:SEEK IM MEDIATE MEDICAL ATTENTION. TARGET ORGANS: SKIN

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