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LIQUID DEVELOPMENT CO INC -- LDC-2803 HI-SPEED NICKEL -- 6850-01-064-1687

========= Product Identification ==============

Product ID:LDC-2803 HI-SPEED NICKEL

MSDS Date:01/01/2000

FSC:6850

NIIN:01-064-1687

MSDS Number: BGJXQ === Responsible Party ===

Company Name: LIQUID DEVELOPMENT CO INC

Address:3748 E 91ST STREET

City:CLEVELAND

State:OH

ZIP:44105-2156

Country:US

Info Phone Num:216-641-9366/FAX -6416

Emergency

Phone Num: (800) 424-9300

Preparer's Name: NOT PROVIDED Chemtrec Ind/Phone: (800)424-9300

CAGE:57868

=== Contractor Identification === Company Name:FAISON AND CO

Address:5821 ARROWHEAD DR SUITE 102

Box:3131

City:VIRGINIA BEACH

State:VA ZIP:23454 Country:US

Phone:757-490-6090

Contract Num:SP0450-00-M-SH28

CAGE:1P430

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

= Composition/Information on Ingredients ========

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Minumum % Wt:50.

Maxumum % Wt:60.

Other REC Limits:NOT PROVIDED

Ingred Name: NICKEL SULFATE (SARA 313) (CERCLA)

CAS:7786-81-4

RTECS #:QR9350000

Minumum % Wt:10.

Maxumum % Wt:20.

Other REC Limits: NONE ESTABLISHED

OSHA PEL:1 MG/M3 ACGIH TLV:0.1 MG/M3 EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS

Ingred Name: CITRIC ACID

CAS:77-92-9

RTECS #:GE7350000

Minumum % Wt:1.

Maxumum % Wt:10.

Other REC Limit

s:NOT PROVIDED

OSHA PEL:NONE ESTABLISHED ACGIH TLV:NONE ESTABLISHED

Ingred Name:FORMIC ACID

CAS:64-18-6

RTECS #:LQ4900000

Minumum % Wt:1.

Maxumum % Wt:10.

Other REC Limits: NONE ESTABLISHED

OSHA PEL:9 MG/M3;5 PPM ACGIH TLV:9.4 MG/M3;5 PPM ACGIH STEL:19 MG/M3;10 PPM

EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name: AMMONIUM HYDROXIDE

CAS:1336-21-6

RTECS #:BQ9625000

Minumum % Wt:10.

Maxumum % Wt:20.

Other REC Limits:NOT PROVIDED

OSHA PEL:35 MG/M3 ACGIH TLV:17 MG/M3 EPA Rpt Qty:1000 LBS

DOT Rp

| t Qty:1000 LBS |
|--|
| ========== Hazards Identification ============= |
| LD50 LC50 Mixture:NOT PROVIDED Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO Health Hazards Acute and Chronic:SKIN- NICKEL ITCH OR RASH. EYE- AMMONIA VAPORS ARE IRRITING AND MAY DAMAGE. EXPOSURE TO VAPORS CAN CAUSE PERMANENT UPPER RESPIRATORY TRACT IRRITATION, PNEUMONITITS. INGESTION- COULD CAUSE CORROSIVE EF FECTS ON THROAT AND MOUT H. Explanation of Carcinogenicity:SOLUBLE NICKEL COMPOUNDS: NTP: YES, IARC: YES, OSHA: YES. ALL CONCLUDE THAT NICKEL COMPOUNDS MAY REASONABLY BE ANTICIPATED TO BE CARCINOGENS. Effects of Overexposure:SKIN ITCH, BURNING, TEARING OF EYES, RUNNY NOSE, COUGHING, AND CHEST PAIN. Medical Cond Aggravated by Exposure:ASTHMA, ALLERGIES, KNOWN SENSITIZATION TO NICKEL, EASILY IRRITATE: EYES OR RESPIRATORY PROBLEMS, CHRONIC SKIN DISOREDERS. |
| ====================================== |
| First Aid:SKIN AND EYES- REMOVE CONTAMINATED CLOTHING. FLUSH WITH LARGE QUANTITIES OF WATER, SEEK MEDICAL ATTENTION. INHALATION- MOVE TO FRESH AIR. GET MEDICAL ATTENTION. INGESTION- GET IMMEDIATE MEDICAL ATTENT ION. DO NOT INDUCE VOMITING. |
| ====================================== |
| Flash Point:NONE Autoignition Temp:Autoignition Temp Text:NP Lower Limits:NA Upper Limits:NA Extinguishing Media:WATER, CO2, DRY CHEMICAL. Fire Fighting Procedures:CHEMICAL RESISTANT CLOTHING AND SELF-CONTAINED BREATHING APPARATUS SHOULD BE WORN IN CASE OF SPILL. Unusual Fire/Explosion Hazard:UNDER CERTAIN CIRCUMSTANCES AMMONIA VAPORS AND AIR CAN CREATE AN EXPLOSIVE MIXTURE. |
| ========= Accidental Release Measures =========== |

Spill Release Procedures: VENTILATE AREA. WEAR PROTECTIVE CLOTHING.

DISPOSAL.

Neutralizing Agent:NOT PROVIDED

SMOTHER WITH NEUTRALIZING AGENT, SCOOP INTO CONTAINER FOR PROPER

| ====== Handling and Storage ====================== |
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| Handling and Storage Precautions:STORE BETWEEN 45-75F, OUT OF DIRECT LIGHT, WITH CONTAINER SEALED TIGHT. Other Precautions:DO NOT EAT, DRINK, OR SMOKE IN WORK AREA. |
| ======= Exposure Controls/Personal Protection ======== |
| Respiratory Protection: A NIOSH/MSHA APPROVED RESPIRATOR AS NECESSARY. Ventilation: LOCAL EXHAUST: SHOULD BE USED TO MAINTAIN CONCENTRATIONS BELOW TLV. |
| Protective Gloves:RUBBER GLOVES Eye Protection:FACES |
| HIELD OR CHEMICAL GOGGLES Other Protective Equipment:CHEMICAL RESISTANT CLOTHING (APRON,BOOTS,ETC). |
| Work Hygienic Practices:WASH HANDS THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. Supplemental Safety and Health NONE |
| ====================================== |
| HCC:T6 NRC/State Lic Num:NOT RELEVANT Boiling Pt:>93.3C, 200.F Melt/Freeze Pt:M.P/F.P Text:NOT AVAILABLE Decomp Temp:Decomp Text:NOT PROVIDED Vapor Pres:NOT A VAILABLE Vapor Density:NA Spec Gravity:1.16-1.18 pH:7.4-7.8 Viscosity:NOT PROVIDED Evaporation Rate & Decomp Reference:NOT AVAILABLE Solubility in Water:COMPLETE Appearance and Odor:BLUE-GREEN LIQUID; STONG AMMONIA SMELL Corrosion Rate:NOT PROVIDED |
| ====================================== |
| Stability Indicator/Materials to Avoid:YES NONE EXPECTED Hazardous Decomposition Products:NONE |
| ============= Toxicological Information ============== |

Toxicological Inform

| ation:NOT PROVIDED |
|---|
| ====================================== |
| Ecological:NOT PROVIDED |
| ======= Disposal Considerations =========== |
| Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL LAWS. DO NOT FLUSH DOWN THE SEWER SYSTEM. |
| ========= MSDS Transport Information =========== |
| Transport Information:NOT PROVIDED |
| ========= Regulatory Information =========== |
| SARA Title III Information:NOT PROVIDED Federal Regulatory Information:NOT PROVIDED State Regulatory Information:NOT PROVIDED ================================== |
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