

LIQUID DEVELOPMENT CO INC -- LDC-#1 ACTIVATOR & ETCH -- 6850-01-011-2349

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

Product ID:LDC-#1 ACTIVATOR & ETCH

MSDS Date:03/01/1988

FSC:6850

NIIN:01-011-2349

MSDS Number: BMTPS

=== 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

Emergency Phone Num:

800-424-9300(CHEMTREC)

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

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

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Fraction by Wt: 70-80%

Other REC Limits:NONE SPECIFIED

Ingred Name:AMMONIUM SULFATE (SOLUTION) (SARA III)

CAS:7783-20-2

RTECS #:BS450000

0  
Fraction by Wt: 10-20%  
Other REC Limits:NONE SPECIFIED

Ingred Name:SULFURIC ACID (SARA III)  
CAS:7664-93-9  
RTECS #:WS5600000  
Fraction by Wt: 1-10%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3; 9192  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

=====  
Hazards Identification  
=====

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:IRRITATION OF SKIN, EYES & NOSE. COULD CAUSE DERMATITIS & TRACHEOBRONCHITIS. INGESTION WILL CAUSE SEVERE BURNS TO MOUTH AND ESOPHAGUS.  
Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS.  
Effects of Overexposure:MAY CAUSE DIFFICULTY BREATHING, TOOTH EROSION. SEVERE BURNS TO SKIN AND EYES. COULD CAUSE BLINDNESS.  
Medical Cond Aggravated by Exposure:RESPIRATORY OR PULMONARY FUNCTION IMPAIRMENT, CHRONIC SKIN DISORDERS.

=====  
First Aid Measures  
=====

First Aid:SKIN& EYES-REMOVE CONTAMINATED CLOTHING, FLUSH WITH LARGE QUANTITIES OF WATER. SEEK MEDICAL ATTENTION. INHALATION- REMOVE TO FRESH AIR. SEEK MEDICAL ATTENTION. INGESTION-GET IMMEDIATE MEDICAL ATTENTION. DO NOT INDUCE VOMITING.

=====  
Fire Fighting Measures  
=====

Flash Point:NONE  
Extinguishing Media:WATER, CARBON DIOXIDE, DRY CHEMICAL.  
Fire Fighting P

Procedures:CHEMICAL RESISTANT CLOTHING SHOULD BE WORN AS WELL AS SELF CONTAINED BREATHING APPARATUS.  
Unusual Fire/Explosion Hazard:CONTACT WITH SOME METALS MAY PRODUCE FLAMMABLE HYDROGEN GAS.

===== Accidental Release Measures =====

Spill Release Procedures:FIRST, VENTILATE AREA, WEAR PROTECTIVE CLOTHING. SMOTHER WITH EXCESS LIME OR SODA ASH, SCOOP INTO CONTAINER FOR PROPER DISPOSAL. DO NOT FLUSH INTO SEWER SYSTEM.  
Neutralizing Agent:LIME OR SODA ASH.

===== Handling and Storage =====

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 SHOULD BE WORN.  
Ventilation:LOCAL EXHAUST SHOULD BE USED TO MAINTAIN CONCENTRATIONS BELOW TLV.  
Protective Gloves:RUBBER GLOVES  
Eye Protection:FACE SHIELD OR CHEMICAL GOGGLES  
Other Protective Equipment:CHEMICAL RESISTANT CLOTHING (APRON, BOOTS, ETC.)  
Work Hygienic Practices:WASH THANDS HOROUGHLY WITH SOAP & WATER BEFORE EATING, DRINKING, SMOKING OR USING THE TOILET FACILITIES.  
Supplemental Safety and Health

===== Physical/Chemical Properties =====

HCC:C1  
Boiling Pt:B.P. Text:200F,93C  
Spec Gravity:1.075-1.085  
pH:1-2  
Solubility in Water:COMPLETE  
Appearance and Odor:CLEAR LIQUID, NO NOTICEABL

E ODOR.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

ALKALINE MATERIALS.

Hazardous Decomposition Products: CARBON MONOXIDE, SULFUR DIOXIDE.

===== Disposal Considerations =====

Waste Disposal Methods: DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS. EPA WASTE NUMBER: F006 & D002.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated

for use by elements of the Department

of Defense. The United States of America in no manner whatsoever,

expressly or implied, warrants this information to be accurate and

disclaims all liability for its use. Any person utilizing this

document should seek competent professional advice to verify and

assume responsibility for the suitability of this information to their

particular situation.