

ULTRALIFE BATTERIES INC -- HIGH RATE LITHIUM MANGANESE DIOXIDE CELLS/BATTERIES --  
6135-01-407-8252

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

Product ID:HIGH RATE LITHIUM MANGANESE DIOXIDE CELLS/BATTERIES

MSDS Date:02/07/1995

FSC:6135

NIIN:01-407-8252

MSDS Number: CBTKK

=== Responsible Party ===

Company Name:ULTRALIFE BATTERIES INC

Address:1350 RT 88 S

Box:622

City:NEWARK

State:NY

ZIP:14513

Country:US

In

fo Phone Num:315-332-7100

Emergency Phone Num:315-332-7100

CAGE:0UU59

=== Contractor Identification ===

Company Name:BATTERY OUTLET OF HAMPTON INC

Address:2815 GEORGE WASHINGTON HWY

Box:City:TABB

State:VA

ZIP:23602

Country:US

Phone:804-867-8280

CAGE:0FTM0

Company Name:ULTRALIFE BATTERIES INC

Address:2000 TECHNOLOGY PARKWAY

Box:City:NEWARK

State:NY

ZIP:14513

Country:US

Phone:800-424-9300

CAGE:0UU59

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

Ingred Name:LITHIUM (LI)

CAS

:7439-93-2  
RTECS #:OJ5540000  
Other REC Limits:NONE RECOMMENDED

Ingred Name:MANGANESE DIOXIDE (MNO2)  
CAS:1313-13-9  
RTECS #:OP0350000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:5 MG MN/M3 CEILING  
ACGIH TLV:5 MG MN/M3

Ingred Name:PROPYLENE CARBONATE (C3H6CO3)  
CAS:108-32-7  
RTECS #:FF9650000  
Other REC Limits:NONE RECOMMENDED

Ingred Name:1,2-DIMETHOXYETHANE (CH3OCH2CH2OCH3)  
CAS:110-71-4  
RTECS #:KI1451000  
Other REC Limits:NONE RECOMMENDED

Ingred Name:TETRAHYDROFURAN (CERCLA) (C4H8O)  
CAS:109-99-9  
RT  
ECS #:LU5950000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:200 PPM  
ACGIH TLV:200 PPM/250STEL;9596  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:LITHIUM PERCHLORATE (LICLO4)  
CAS:7791-03-9  
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:LI:HIGHLY FLAMM/CORR.RXS VIGOROUSLY  
W/WATER EMTTNG FLAMM G

AS.MN02:TOX,IRRIT,OXIDZING AGENT,HARMFUL BY  
INGEST.PROPYLENE CARBONATE:CLEAR COLORLESS LIQ,MAY BE HARMFUL IF  
INHAL,INJECT,SKIN ABSORPTION.CAU SE EYE IRRIT,SKIN  
IRRIT.1,2-DIMETHOXYEHTANE:HIGHLY FLAMM COLORLESS LIQ,HARMFUL BY  
INHAL,INGEST,SKIN ABSORPT (SIGN/SYMPT)  
Effects of Overexposure:HEALTH HAZ:TETRAHYDROFURAN:FLAMM COLORLESS LIQ  
W/CHARACTERISTIC ODOR.HARMFUL BY INGEST,INHAL,SKIN CONTACT CAUSING  
HEAD,DIZZ,NAU.LITHIUM PERCHLOORATE:COLORLESS SOLID,HARMFUL/IRRIT IF  
INGE  
ST,IRRIT SKIN/E YE/RESP SYS.EXPLO IN CONTACT W/COMBUSTIBLE  
MATL.  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:SHOULD LIQ ELECTROLYTE COME INTO DIRECT CONTACT W/SKIN IT  
SHOULD BE REMOVED BY FLUSHING W/WARM SOAPY WATER.

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

Flash Point:NP  
Autoignition Temp:Autoignition Temp Text:NP  
Lower Limits:NP  
Upper Limits:NP  
Extingui  
shing Media:DRY POWDER EXT BASED ON GRAPHITE(LITH-X)/OTHER  
SUITABLE EXT DESIGNED FOR ALKALI METAL FIRE FIRES.DON'T USE  
H2O/CO2/HALON  
Fire Fighting Procedures:NONE SPECIFIED BY MANUFACTURER.  
Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.

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

Spill Release Procedures:IN EVENT OF CELL LEAKING IT SHOULD BE  
CAREFULLY ISOLATED FROM ANY OTHER CELLS/PLACED INSIDE POLYETHENE  
BAG.ULTRALIFE BATT SHOULD BE CONTA  
CTED FOR ADVICE ON DISPO.LEADAGE  
OCCURS FROM CELL WHILST CONNEC TED TO PRINTED CIRCUIT BOARD IT  
SHOULD BE (SUPP)  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:PROD SHOULDN'T BE OPEN/INCINER SINCE  
CONTAINS INGRED S THAT WOULD BE EXPO COULD BE HARMFUL.STORE IN WELL  
VENTI DRY AREA @TEMP