

EVEREADY BATTERY CO INC -- EVEREADY BATT TYPE NO:L91,ENERGIZER,LITHIUM-IRON  
DISULFIDE -- 6135-01-333-6101

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

Product ID:EVEREADY BATT TYPE NO:L91,ENERGIZER,LITHIUM-IRON DISULFIDE

MSDS Date:10/03/1996

FSC:6135

NIIN:01-333-6101

MSDS Number: CFYGS

=== Responsible Party ===

Company Name:EVEREADY BATTERY CO INC

Address:25225 DETROIT RD

City:WESTLAKE

State:OH

ZIP:44145-2

536

Country:US

Info Phone Num:216-835-7368

Emergency Phone Num:216-835-7368

CAGE:66571

=== Contractor Identification ===

Company Name:EVEREADY BATTERY CO INC

Address:25225 DETROIT ROAD

Box:City:WESTLAKE

State:OH

ZIP:44145

Country:US

Phone:440-835-7368

CAGE:66571

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

Ingred Name:CARBON BLACK

CAS:1333-86-4

RTECS #:FF5800000

Fraction by Wt: 0-4%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:3.5 MG/M3

ACGIH TLV:3.5 MG/M3; 9596

Ingred N

ame:DIMETHOXYETHANE  
CAS:110-71-4  
RTECS #:K11451000  
Fraction by Wt: 5-8%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:1,3-DIOXOLANE  
CAS:646-06-0  
RTECS #:JH6760000  
Fraction by Wt: 2-5%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:GRAPHITE, NATURAL  
CAS:7782-42-5  
RTECS #:MD9659600  
Fraction by Wt: 0-4%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:15 MPPCF; Z-3  
ACGIH TLV:2 MG/M3 RDUST; 9596

Ingred Name:IRON PYRITE (FERRIC SULFIDE)  
CAS:1309-36-0  
Fraction by Wt: 24-27%  
Other REC Limits:NONE RECOMMEND  
ED

Ingred Name:LITHIUM OR LITHIUM ALLOY  
CAS:7439-93-2  
RTECS #:OJ5540000  
Fraction by Wt: 6-7%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:LITHIUM TRIFLUOROMETHANE SULFONATE  
CAS:33454-82-9  
Fraction by Wt: 0-3%  
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:NO Skin:NO Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO  
Health Hazards Acute and

Chronic:UNDER NORMAL CONDITIONS OF USE BATT  
HERMETICALLY SEALED.BATTERY SHOULD NOT BE OPENED/BURNED.EXPO TO  
INGREDS CONTAINED W/IN OR THEIR COMBUSTION PRODUCTS COULD BE  
HARMFUL.INGEST:HARMFUL.CONTENTS OF OPN BATT CAN CAUSE SER CHEM  
BURNS OF MOUTH/ESOPHAGUS/GI TRACT IF INGEST,RESP IRRIT IF  
INHAL.SKIN:DIMETHOXYETHANE, (SIGN/SYM)

Explanation of Carcinogenicity:PER MSDS:CARBON BLACK LISTED AS POSSIBLE  
CARCINOGEN BY IARC.

Effects of Overexposure:HEALTH:DIOXOLANE,& LITHIUM

TRIFLUOROMETHANESULFONATE MAY BE ABSORBED THRU SKIN,CAUSING  
LOCALIZED INFLAMM.SKIN:CONTENTS OF OPN BATT CAN CAUSE IRRIT &/OR  
CHEM BURNS,SEVERE EYE IRRIT/CHEM BURNS.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:INEST:DONT INDUCE VOMIT OR GIVE FOOD OR DRINK.SEEK MED ATTN  
IMMED.CALL NAT BATT INGEST HOTLINE FOR ADVICE & FOLLOWUP  
202-625-3333 COLLECT DAY/NIGHT.INHAL:PROVIDE FRESH  
AIR.SEEK MED

ATTN.SKIN:REMOVE CO NTAM CLOTH.WASH SKIN W/SOAP/WATER.CHEM BURN  
OCCUR/IRRIT PERSIST SEEK MED ATTN.EYE:IMMED FLUSH THOROUGHLY  
W/WATER FOR @LEAST 15MINS LIFT UPPER/LOWER LIDS TIL NO EVIDENCE OF  
CHEM REMAINS.SEEK MED ATTN.

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

Flash Point:NP

Autoignition Temp:Autoignition Temp Text:NP

Lower Limits:NP

Upper Limits:NP

Extinguishing Media:FIRE WHERE LI BATT PRESENT FLOOD W/H2O.CO2,DRY  
CHEM,FOAM EXT MAY  
BE USED,MAY NOT EXT BURN LI  
BATT-LITH-X(POWDER(SUPPLEM)

Fire Fighting Procedures:BATT BURNING WATER MAY NOT EXTI THEM BUT COOL  
ADJ BATT/CNTRL FIRE SPREAD.BURNING BATT WILL BURN THEMSELVES  
OUT.VIRTUALLY ALL FIRES INVOLVING LI BATT CAN BE(SUP)

Unusual Fire/Explosion Hazard:WHEN H2O USED HOWEVER HYDROGEN GAS MAY BE  
EVOLVED WHICH CAN FORM EXPLO MIX W/AIR.BURNING LI-FE DISULFIDE BAT  
PRODUCE HYDROGEN SULFIDE GAS,SULFUR DIOXIDE (SUPPL)

===== Accidental Release Measure

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Spill Release Procedures:NONE SPECIFIED BY MANUFACTURER.  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN COOL WELL VENTI AREA.ELEV  
TEMPS CAN RESULT IN SHORTENED BATTERY LIFE.POT/SEAL BATT IN  
AIRTIGHT/H2OTIGHT CNTNR REQUIRE CONSULT EVERREADY CO.  
Other Precautions:BATT NORMALLY EVOLVE H2-WHEN COMBINE W/O2 FRM AIR  
PRODUCE COMBUST/EXPLO MIX UNLESS VENT  
ED.SUCH MIX PRESENT SHORT  
CIRCUITS/HI TEMP/STATIC SPARK CAN CAUSE IGN.DONT OBSTRUCT SAF  
RELEASE VENT.POT OF BATT NOT ALLOW CELL VENT,CAUSE HI(CONT DISPO)

===== Exposure Controls/Personal Protection =====

Respiratory Protection:NOT NECESSARY UNDER NORMAL CONDITIONS.  
Ventilation:NOT NECESSARY UNDER NORMAL CONDITIONS.  
Protective Gloves:NOT NECESSARY UNDER NORMAL CONDITIONS.  
Eye Protection:NOT NECESSARY UNDER NORMAL CONDITIONS.  
Other Protective Equipment:WEAR SAF GLASS W  
/SIDE SHIELD & NEOPRENE/NAT  
RUBB GLOVES IF HNDLG OPN/LEAK BATTERY.  
Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.  
Supplemental Safety and Health  
FIRE EXT:GRPAHITE)OR CUOPPER POWDER FIRE EXT PREF MATL TO EXT BURNING  
LI BATT.SAND,DRY GROUND DOLOMITE,SODA ASH MAY ALSO BE USED.MATLS  
ACT AS SMOTHERING AGENTS. FIREFIGHT:CONTROLLED W/H2O.WEAR SCBA. F  
IRE/EXPLO HAZ:GAS,TOXIC & CORRO LITHIUMHYDROXIDE FUMES.

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

HC  
C:N1  
Boiling Pt:B.P. Text:NP  
Melt/Freeze Pt:M.P/F.P Text:NP  
Decomp Temp:Decomp Text:NP  
Vapor Pres:NP  
Vapor Density:NP  
Spec Gravity:NP  
pH:NP  
Viscosity:NP  
Evaporation Rate & Reference:NP  
Solubility in Water:NP  
Appearance and Odor:ARTICLE, HERMETICALLY SEALED, MANUFACTURED IN  
CHARGED STATE.  
Percent Volatiles by Volume:NP  
Corrosion Rate:NP

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

NONE SPECIFIED BY MANUFACTURER.  
Stability Condition to Avoid:NOT DESIGNED FOR RECHAR

GING.SHORT CIRCUIT

SOURCES-JUMBLE BATT IN CNTNR,METAL JEWELRY/COVER TABLE/BELTS.

Hazardous Decomposition Products:NONE SPECIFIED BY MANUFACTURER.

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

Waste Disposal Methods:DISPO OF IAW ALL APPLICABLE FED/STATE/LOC REGS.

OTHR PREC:PROL SHORT CIRCUIT LOSE ENERGY,SAF RELESE VENT

OPN.SOLDER/WELD CALL COMPANY.INSTALL BACKWARD-INADVERTENT CHARGING  
CAN OCCUR.RECHARGING CAN CAU SE BATT LEAKAGE/HIGH PRESURE RUPTURE.

Disc

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