

EVEREADY BATTERY CO INC -- ENERGIZER LITHIUM IRON DISULFIDE BATTERY --  
6135-01-333-6101

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

Product ID:ENERGIZER LITHIUM IRON DISULFIDE BATTERY

MSDS Date:10/03/1996

FSC:6135

NIIN:01-333-6101

MSDS Number: CFCXB

=== Responsible Party ===

Company Name:EVEREADY BATTERY CO INC

Address:CHECKERBOARD SQ

City:SAINT LOUIS

State:MO

ZIP:63164

Country:US

Info Phone Num:216-835-7

368

Emergency Phone Num:216-835-7368

CAGE:83740

=== Contractor Identification ===

Company Name:EVEREADY BATTERY CO INC

Address:CHECKERBOARD SQ

Box:City:ST LOUIS

State:MO

ZIP:63164

Country:US

Phone:216-835-7368

CAGE:83740

===== 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 Name:DIMETHOXYETHANE

CAS:110-71-4

RTECS #:K

I1451000  
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 RECOMMENDED

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

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

LD50 LC50 Mixture:NOT GIVEN FOR PRODUCT AS A WHOLE  
Routes of Entry: Inhalation:NO Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:SWALLOWING A BATTERY MAY BE HARMFUL.  
CONTENTS OF AN OPEN BATTERY CAN CAUSE SERIOUS BURNS OF MOUTH,  
ESOPHAGUS, GI TRACT, RESPIRATORY IRRITATION, SKIN INFLAM  
MATION,  
SEVERE EYE IRRITATION, CHEMICAL BURNS TO EYE/SKIN.  
Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT  
CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT  
CARCINOGENS.  
Effects of Overexposure:MOUTH/ESOPHAGUS/GI TRACT BURNS, RESPIRATORY  
TRACT IRRITATION, SKIN INFLAMMATION, SEVERE EYE IRRITATION,  
CHEMICAL BURNS OT EYE/SKIN.  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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===== First Aid Measures

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First Aid:EYES: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. IF IRRITATION PERSIST, GET MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR. RESTORE BREATHING. GET MEDICAL ATTENTION. INGESTION: IF BATTERY OR OPEN BATTERY IS INGESTED, DO NOT INDUCE VOMITING OR GIVE FOOD OR DRINK. SEEK MEDICAL ATTENTION ASAP.

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

Flash Point:NONFLAMMABLE

Lower Limits:NOT GIVEN

Upper Limits:NOT GIVEN

Extinguishing Media:FLOOD AREA WITH WATER. CARBON DIOXIDE, DRY CHEMICAL, FOAM EXTINGUISHERS MAY BE USED. BATTERIES WILL BURN THEMSELVES OUT.

Fire Fighting Procedures:VIRTUALLY ALL FIRES INVOLVING LITHIUM BATTERIES CAN BE CONTROLLED WITH WATER. HOWEVER, THIS MAY EVOLVE HYDROGEN GAS. USE LITH-X OR COPPER POWDER FIRE EXTINGUISH

Unusual Fire/Explosion Hazard:SAND, DRY GROUND DOLOMITE OR SODA ASH MAY

ALSO BE USED. FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS.

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

Spill Release Procedures:COLLECT FOR REUSE, RECLAMATION OR DISPOSAL.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN A COOL, WELL VENTILATED AREA. ELEVATED TEMPERATURES CAN RESULT IN SHORTENED BATTERY LIFE. DO NOT

OBSTRUCT SAFETY RELEASE VENTS ON BATTERIES.

Other Precautions:IF POTTING OR SEALING BATTERY IN AN AIRTIGHT OR WATER TIGHT CONTAIN IS REQUIRED, CONSULT YOUR MANUFACTURER FOR PRECAUTIONARY SUGGESTIONS. BATTERIES NORMALLY EVOLVE HYDROGEN WHICH CAN PRODUCE A COMBUSTIBLE AIR MIXTURE UNLESS VENTED.

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

Respiratory Protection:NONE REQUIRED UNDER NORMAL CONDITIONS

Ventilation:NOT NECESSARY UNDER NORMAL CONDITIONS.

Prote

ctive Gloves:NONE REQUIRED UNDER NORMAL CONDITIONS  
Eye Protection:NONE REQUIRED UNDER NORMAL CONDITIONS  
Other Protective Equipment:CHEMICAL RESISTANT CLOTHING AS NECESSARY TO PREVENT SKIN CONTACT. AN EMERGENCY EYEWASH AND SHOWER SHOULD BE AVAILABLE.

Work Hygienic Practices:WASH HANDS THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.

Supplemental Safety and Health

WEAR SAFETY GLASSES WITH SIDE SHIELD IF HANDLING AN OPEN OR LEAKING BATTERY.

USE NEOPRENE OR NATURAL RUBBER GLOVES IS HANDLING AN OPEN OR LEAKING BATTERY.ACCIDENTAL SHORT CIRCUIT FOR A FEW SECONDS WIL L NOT SERIOUSLY AFFECT THE BATTERY. PROLONGED SHORT CIRCUIT WILL CAUSE BATTERY TO LOSE ENERGY.

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

HCC:N1

Boiling Pt:B.P. Text:NOT GIVEN

Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN

Vapor Pres:NOT GIVEN

Vapor Density:NOT GIVEN

Spec Gravity:NOT GIVEN

Evaporation Rate & Reference:NOT GIVEN

Solubility

in Water:NOT GIVEN

Appearance and Odor:BATTERY

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

Stability Indicator/Materials to Avoid:YES

NONE SPECIFIED BY MANUFACTURER.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:HYDROGEN SULFIDE GAS, SULFUR DIOXIDE GAS, TOXIC AND CORROSIVE LITHIUM HYDROXIDE FUMES.

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

Waste Disposal Methods:DISPOSE IN ACCORDANCE WITH AL

L APPLICABLE

FEDERAL, STATE AND LOCAL REGULATIONS.

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