

EASTMAN KODAK COMPANY -- 817 1670 PHOTOLIFE LITHIUM BATTERY -- 6135-01-351-1131
===== Product Identification =====

Product ID:817 1670 PHOTOLIFE LITHIUM BATTERY

MSDS Date:04/06/1994

FSC:6135

NIIN:01-351-1131

MSDS Number: CFKKC

=== Responsible Party ===

Company Name:EASTMAN KODAK COMPANY

Address:343 STATE STREET

City:ROCHESTER

State:NY

ZIP:14650

Country:US

Info Phone Num:716-477-3194 MSDS :800- 24

2-2424

Emergency Phone Num:716-722-5151

CAGE:19139

=== Contractor Identification ===

Company Name:EASTMAN KODAK CO GOVERNMENT MARKETS CONTRACTS

Address:343 STATE ST

Box:City:ROCHESTER

State:NY

ZIP:14650-1115

Country:US

Phone:716-722-5151/(800) 242-2424

CAGE:19139

Company Name:EASTMAN KODAK CO US CUSTOMER SERVICE/GOVERNMENT SALES

Address:800 LEE RD

Box:City:ROCHESTER

State:NY

ZIP:14650-3129

Country:US

Phone:800-828-6203

CAGE:5K871

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

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Ingred Name:MANGANESE DIOXIDE
CAS:1313-13-9
RTECS #:OP0350000
Fraction by Wt: 25-30%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:5 MG MN/M3 CEILING
ACGIH TLV:5 MG MN/M3

Ingred Name:LITHIUM METAL
CAS:7439-93-2
RTECS #:OJ5540000
Fraction by Wt: 1-5%
Other REC Limits:NONE RECOMMENDED

Ingred Name:1,3-DIOXALAN-2-ONE (ETHYLENE CARBONATE)
CAS:96-49-1
RTECS #:FF9550000
Fraction by Wt: 1-5%
Other REC Limits:NONE RECOMMENDED

Ingred Name:CARBONATES -- BUTYLENE CARBONATE MFR GIVES CAS # AS
4427-8
5-8 (WHICH IS INVALID)
Fraction by Wt: 1-5%
Other REC Limits:NONE RECOMMENDED

Ingred Name:DIMETHOXYETHANE
CAS:110-71-4
RTECS #:KI1451000
Fraction by Wt: 1-5%
Other REC Limits:NONE RECOMMENDED

Ingred Name:STEEL CASING
Fraction by Wt: 25-30%
Other REC Limits:NONE RECOMMENDED

Ingred Name:PLASTIC BATTERY CASE
Fraction by Wt: 1-5%
Other REC Limits:NONE RECOMMENDED

Ingred Name:LITHIUM TRIFLUOROMETHANE SULFONATE
CAS:33454-82-9
Fraction by Wt: 1-5%
Other REC Limits:NONE RECOMMENDED

Ingred Name:PAPE

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Fraction by Wt: 1-5%
Other REC Limits:NONE RECOMMENDED

Ingred Name:PROPYLENE CARBONATE
CAS:108-32-7
RTECS #:FF9650000
Fraction by Wt: 1-5%
Other REC Limits:NONE RECOMMENDED

Ingred Name:LITHIUM PERCHLORATE
CAS:7791-03-9
Fraction by Wt: 1-5%
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:ORAL LD50 (RAT): NOT GIVEN
Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:MATERIALS ARE SEALED IN BATTERY CASE.
THE POTENTIAL FOR EXPOSURE IS NEGLIGIBLE WHEN BATTERY IS USED AS
DIRECTED. TECHNICAL OR ELECTRICAL ABUSE MAY RESULT IN RELEASE OF
BATTERY CONTENTS. CONTACT WITH LIQUID ELECTROLYTE CAUSES BURNS.
VAPORS OR FUMES MAY CAUSE IRRITATION TO THE MUCOUS MEMBRANES.
Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT
CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT
CARCINOGEN

S.
Effects of Overexposure:UPPER RESPIRATORY TRACT IRRITATION, MUCOUS
MEMBRANE IRRITATION, EYE BURNS, EYE IRRITATION, MECHANICAL INJURY,
SKIN BURNS, BURNS OF THE GASTROINTESTINAL TRACT.
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:THE ROUTINE HANDLING AND USE OF INTACT, NON-DAMAGED BATTERIES
IS NOT EXPECTED TO RESULT IN SITUATIONS THAT REQUIRE FIRST AID
MEASURES. IF BATTERY IS
DAMAGED DUE TO OPENING, CUTTING, CRUSHING,
OVERHEATING, IMPROPER INSTALLATION, EXPOSURE TO FIRE OR HIGH
TEMPERATURES OR RECHARGING, CONTENTS MAY BE RELEASED. SEE
SUPPLEMENTAL DATA.

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

Flash Point:NONFLAMMABLE
Lower Limits:NOT GIVEN
Upper Limits:NOT GIVEN
Extinguishing Media:FLOOD WITH WATER. DO NOT USE CARBON DIOXIDE OR
HALON TYPE EXTINGUISHER. USE CAUTION DURING WATER APPLICATION.
Fire Fighting Procedures:WEAR S

ELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. USE CAUTION DURING WATER APPLICATION AS BURNING PIECES OF LITHIUM MAY BE EJECTED FROM FIRE.

Unusual Fire/Explosion Hazard:FIRE OR EXCESSIVE HEAT MAY PRODUCE HAZARDOUS DECOMPOSTION PRODUCTS.

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

Spill Release Procedures:NONE SPECIFIED BY MANUFACTURER.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

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Handling and Storage Precautions:IF BATTERY HAS BEEN DAMAGED, DO NOT BREATHE FUMES OR VAPORS. DO NOT GET BATTERY CONTENTS IN EYES, ON SKIN, ON CLOTHING. DO NOT DISASSEMBLE.

Other Precautions:KEEP AWAY FROM HEAT AND FLAME. DO NOT RECHARGE. STORE IN COOL, DRY PLACE. PROTECT FROM DIRECT SUNLIGHT. STORAGE ABOVE 70F MAY AFFECT PRODUCT QUALITY. DO NOT STORE IN A MANNER THAT ALLOWS TERMINALS TO SHORT CIRCUIT.

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

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Respiratory Protection:NONE SHOULD BE NEEDED.

Ventilation:SUPPLEMENTAL VENTILATION MAY BE NEEDED IN SPECIAL CIRCUMSTANCES TO CONTROL FUMES/VAPORS TO AN ACCEPTABLE LEVEL.

Protective Gloves:IMPERVIOUS

Eye Protection:SAFETY GLASSES W/SIDE SHIELDS OR GOGGLES

Other Protective Equipment:WASHING FACILITIES 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

FIRST

AID: EYES: IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES.

INHALATION: MOVE TO FRESH AIR. TREAT SYMPTOMATICALLY. SKIN: IMMEDIATELY REMOVE CONTAMINATED CLOTHING AND FLUSH WITH WATER.

INGESTION: DO NOT INDUCE VOMITING. BATTERIES MAY LODGEIN THROAT OR DIGESTIVE TRACT AND FRAGMENT. IN ALL CASES, CALL PHYSICIAN ASAP.

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

HCC:N1

Boiling Pt:B.P. Text:NOT GIVEN

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

Vapor Pres:NEGLIGIBLE

Vap

or Density:NOT GIVEN
Spec Gravity:NOT GIVEN
Evaporation Rate & Reference:NOT GIVEN
Solubility in Water:INSOLUBLE
Appearance and Odor:SOLID BATTERY, NO ODOR

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

Stability Indicator/Materials to Avoid:YES
NONE WITH COMMON MATERIALS AND CONTAMINANTS WITH WHICH THE MATERIAL MAY
REASONABLY COME INTO CONTACT.
Stability Condition to Avoid:DAMAGE, EXCESSIVE HEAT.
Hazardous Decomposition Products:OXIDES OF LITHIUM, OXIDES OF
MA
NGANESE, CARBON DIOXIDE, CARBON MONOXIDE.

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

Waste Disposal Methods:DO NOT INCINERATE OR EXPOSE TO FIRE. DISCHARGE,
TREATMENT, OR DISPOSAL MAY BE SUBJECT TO NATIONAL, STATE OR LOCAL
LAWS.

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