

EASTMAN KODAK COMPANY -- 881-7488 KODAK PHOTOLIFE PHOTO / ELECTRONIC LITHIUM BATTERY -- 6135-01-210-8715

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

Product ID:881-7488 KODAK PHOTOLIFE PHOTO / ELECTRONIC LITHIUM BATTERY

MSDS Date:01/27/1999

FSC:6135

NIIN:01-210-8715

Status Code:A

MSDS Number: CJVPD

=== Responsible Party ===

Company Name:EASTMAN KODAK COMPANY

Address:343 STATE STREET

City:ROCHESTER

State:N

Y

ZIP:14650

Country:US

Info Phone Num:716-722-5151

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

Contract Num:SP0430-97-D-4081-X176

CAGE:19139

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

Ingred Name:MANGANESE DIOXIDE

CAS:1313-13-9

RTECS #:OP0350000

Minumum % Wt:25.

Maxumum

% Wt:30.  
OSHA PEL:C5 MG/M3  
ACGIH TLV:5 MG/M3

Ingred Name:PROPYLENE CARBONATE  
CAS:108-32-7  
RTECS #:FF9650000  
Minumum % Wt:1.  
Maxumum % Wt:5.

Ingred Name:1,2-DIMETHOXYETHANE  
CAS:110-71-4  
RTECS #:KI1451000  
Minumum % Wt:1.  
Maxumum % Wt:5.

Ingred Name:LITHIUM  
CAS:7439-93-2  
RTECS #:OJ5540000  
Minumum % Wt:1.  
Maxumum % Wt:5.

Ingred Name:STEEL CASING  
Minumum % Wt:55.  
Maxumum % Wt:60.

Ingred Name:PLASTIC  
Minumum % Wt:1.  
Maxumum % Wt:5.

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

LD50 LC50 Mixture:NONE PROVIDED BY MFR.  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:IF BATTERY IS DAMAGED SO AS TO RELEASE  
CONTENTS- INHALATION: HARMFUL IF INHALED. MAY CAUSE IRRITATION TO  
THE MUCOUS MEMBRANES & UPPER RESPIRATORY TRACT. EYES: CONTACT WITH  
ELECTROLYTE (LIQUID) CAUSES BURNS. VAPORS OR FUMES MAY CAUSE  
IRRITATION. CONTACT WITH METAL FRAGMENTS MAY CAUSE BURNS OR  
MECHANICAL INJURY. SKIN: CONTACT WITH ELECTROLYTE (LI

QUID) CAUSES

BURNS. CONTACT WITH METAL FRAGMENTS MAY CAUSE BURNS OR MECHANICAL INJURY. HARMFUL IF ABSORBED THROUGH SKIN. VAPORS OR FUMES MAY CAUSE IRRITATION. INGESTION: ALL BATTERIES MAY BE HARMFUL IF SWALLOWED. MAY CAUSE BURNS OF THE GASTROINTESTINAL TRACT.

Explanation of Carcinogenicity:COMPONENTS PRESENT AT 0.1% OR MORE:

IARC: NONE. ACGHI: NONE. NPT: NONE. OSHA: NONE.

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

First Aid:FOR VENTED/LEAKI

NG BATTERY- INHALATION: VAPORS OR FUMES ARE

IRRITATING TO RESPIRATORY TRACT, MOVE TO FRESH AIR. TREAT SYMPTOMATICALLY, GET MEDICAL ATTENTION IF SYSTEMS PERSIST. EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINS. GET MEDICAL ATTENTION IMMEDIATELY. SKIN: IMMEDIATELY REMOVE METAL FRAGMENTS & FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINS WHILE REMOVING CONTAMINATED CLOTHING & SHOES. GET MEDICAL ATTENTION IMMEDIATELY. INGESTION: CALL A PHYSICIAN OR

POISON

CONTROL CENTER IMMEDIATELY FOR ANY ACTUAL OR SUSPECTED INGESTION. DO NOT INDUCE VOMTING. RINSE MOUTH WITH WATER.

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

Extinguishing Media:FLOOD WITH WATER. DO NOT USE CARBON MONOXIDE OR HALON TYPE EXTINGUISHER. USE CAUTION DURING WATER APPLICATION AS BURNING PIECES OF LITHIUM MAY BE EJECTED FROM FIRE.

Fire Fighting Procedures:FIRE OR EXCESSIVE HEAT MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS. WEAR SELF-CONTAINED BREATHING APPRATATUS AND PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard:FIRE OR HIGH TEMPERATURES MAY CAUSE BATTERY TO FLAME OR LEAK FLAMMABLE AND HAZARDOUS VAPORS. DAMAGED OR OPENED BATTERIES CAN RESULT IN RAPID HEADING AND THE RELEASE OF FLAMMABLE AND HAZARDOUS VAPORS.

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

Neutralizing Agent:NONE PROVIDED BY MFR.

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

Handling and St

orage Precautions:STORE IN A COOL, DRY PLACE. PROTECT FROM DIRECT SUNLIGHT. STORAGE ABOVE 21C (70F) MAY AFFECT PRODUCT QUALITY. DO NOT STORE IN A MANNER THAT ALLOWS TERMINALS TO SHORT CIRCUIT. EXTENDED SHORT CIRCUITING CREATES HIGH TEMPERATURES IN THE BATTERY. HIGH TEMPS CAN CAUSE LEAKAGE, EXPLOSION, AND/OR FLAME. Other Precautions:SHORT CIRCUITING MAY REDUCE BATTERY SERVICE LIFE.

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

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 GLOVES

Eye Protection:SAFETY GLASSES WITH SIDE SHIELDS OR GOGGLES

Other Protective Equipment:WASHING FACILITIES.

Work Hygienic Practices:WASH CONTAMINATED CLOTHING BEFORE REUSE. DESTROY OR THOROUGHLY CLEAN CONTAMINATED SHOES.

Supplemental Safety and Health  
NONE

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

HCC:Z6

Vapor Pres:NEGLIGIBLE

Solubility in Water:INSOLUBLE

Appearance and Odor:SOLID, ODORLESS

=====  
===== 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:STABLE UNDER NORMAL CONDITIONS OF USE.

Hazardous Decomposition Products:OXIDES OF LITHIUM, OXIDES OF MANGANESE, CARBON DIOXIDE, CARBON MONOXIDE.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

=====  
===== Toxicological Information =====

Toxicological Information:1,2-DIMETHOXYETHANE: CAN CAUSE ADVERSE REPRODUCTIVE EFFECTS SUCH AS BIRTH DEFECTS, MISCARRIAGES, OR INFERTILITY.

=====  
===== Ecological Information =====

Ecological:THIS MATERIAL HAS NOT BEEN TESTED FOR ENVIRONMENTAL EFFECTS.

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

Waste Disposal Metho

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

===== MSDS Transport Information =====

Transport Information:FOR TRANSPORTATION INFORMATION REGARDING THIS  
PRODUCT CALL THE KODAK WORLDWIDE TRANSPORTATION HAZMAT HOT LINE:  
716-722-2400 BETWEEN 3 AM AND 5 PM (EASTERN STANDARD TIME), MONDAY  
THROUGH FRIDAY.

===== Other Information =====

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.