

EASTMAN KODAK COMPANY -- KODAK ALKALINE BATTERY (K3A, K3A-P TYPE), M-0015.00. --  
6135-00-826-4798

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

Product ID:KODAK ALKALINE BATTERY (K3A, K3A-P TYPE), M-0015.00.  
MSDS Date:06/22/1994  
FSC:6135  
NIIN:00-826-4798  
MSDS Number: BVPZG  
=== Responsible Party ===  
Company Name:EASTMAN KODAK COMPANY  
Address:343 STATE STREET  
City:ROCHESTER  
State:NY  
ZIP:14650  
Country:US  
Info Phone Num:716-722-5151  
Emergency Phone Num:716-722-5151/202-625-3333  
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

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

Ingred Name:MANGANESE DIOXIDE  
CAS:1313-13-9  
RTECS #:OP0350000  
Fraction by Wt: 30-35%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:5 MG MN/M3 CEILING  
ACGIH TLV:5 MG MN/M3

Ingred Name:ZINC POWDER (SARA II

I)  
CAS:7440-66-6  
RTECS #:ZG8600000  
Fraction by Wt: 10-15%  
Other REC Limits:NONE RECOMMENDED  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:POTASSIUM HYDROXIDE (SARA III)  
CAS:1310-58-3  
RTECS #:TT2100000  
Fraction by Wt: 5-10%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:C 2 MG/M3  
ACGIH TLV:C 2 MG/M3; 9394  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Fraction by Wt: 5-10%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:GRAPHITE (NATURAL)  
CAS:778  
2-42-5  
RTECS #:MD9659600  
Fraction by Wt: 1-5%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:15 MPPCF; Z-3  
ACGIH TLV:2 MG/M3 RDUST; 9394

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

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

Ingred Name:METALIZED PLASTIC LABEL  
Fraction by Wt:

1-5%

Other REC Limits:NONE RECOMMENDED

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:SINCE BATTERY MATLS SEALED IN CASE

POTENTIAL FOR EXPO TO COMPONENTS IS NEGLIGIBLE WHEN USED AS

DIRECT;HOWEVER BATTERY ABUSE MAY RELEASE CONTENTS.INHAL:HARMFUL.MUC

MEMB/UPPER RESP TRACT IRRIT.EYE/SKIN: BURNS,VAP/FUMES IRRIT,METAL

FR

AG MAY CAUSE BURNS/MECH INJURY.SKIN ABSORBTION

HARMFUL.INGEST:HARMFUL,BURNS GI TRACT.

Explanation of Carcinogenicity:PER MSDS:CARCINOGENICITY

CLASSIFICATION:NONE PER IARC/ACGIH/NTP/OSHA/STATE OF CA.

Effects of Overexposure:LEAKING BATTERIES MAY CAUSE NECROSIS & TISSUE

DAMAGE.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MFG.

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

First Aid:ROUTINE HANDLE/USE OF INTACT/NON-DAMA BATTERY NOT EXPECTED TO  
RESUL

T IN SITUATIONS REQUIRING 1STAID MEARSURE.INHAL:MOVE TO FRESH

AIR.TREAT SYMPTO.EYE:IMMED FLUSH W/PLENTY OF WATER FOR @ LEAST

15MINS.S KIN:IMMED REMOVE METAL FRAGMENTS.FLUSH W/PLENTY OF WATER

FOR @ LEAST 15MINS.REMOVE CONTAMIN CLOTH.INGEST:CALL DOCTOR/POI

CNTRL CNTR IMMED.DO NOT INDUCE VOMIT.IF LEAK WASH MOUTH.IN ALL CASE

GET MED ATT

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

Flash Point:NOT APPLICABLE.

Extinguishing Media:USE APPROPRIATE AGENT FOR

ADJACENT FIRE.

Fire Fighting Procedures:FIRE OR ESCCESSIVE HEAT MAY PRODUCE HAZ

DECOMPOSITION PRODUCTS (OXIDES OF MANGANESE, OXIDES OF ZINC). WEAR

SELF-CONTAINED BREATHING APPARATUS & PROTECTIVE CLOTH.

Unusual Fire/Explosion Hazard:FIRE/HIGH TEMP MAY CAUSE BATTERY TO VENT

&/OR EXPLODE/LEAK HAZ VAPORS.DAMAGED/OPENED BATTERIES CAN RESULT IN

RAPID HEATING & THE RELEASE OF FLAMM/HAZ VAPORS.

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

Spill Release Procedures:

NONE SPECIFIED BY MFG. HOWEVER IF BATTERIES  
LEAKING/DAMAGED AVOID INHAL VAPORS/FUMES & SKIN/EYES/CLOTHING  
CONTACT. KEEP AWAY ALL HEAT SOURCES FROM SPILL. NEUTRALIZE  
POTASSIUM HYDROXIDE CONTENT W/5% AC ETIC ACID. PLACE ON WASTE  
CONTAINER.

Neutralizing Agent:NONE SPECIFIED BY MFG. HOWEVER NEUTRALIZE POTASSIUM  
HYDROXIDE W/ 5% ACETIC ACID.

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

Handling and Storage Precautions:IF DAMAGED DO NOT BREATH FUMES/VAP,GET

CONTENT IN EYE/SKIN/CLOTH.DO NOT DISASSEMBLE.KEEP AWAY FROM  
HEAT/FLAME/DIRECT SUNLIGHT.STORE IN COOL DRY PLACE.

Other Precautions:DO NOT RECHARGE WHICH MAY RESULT IN ELECTROLYTE  
LEAKAGE &/OR EXPLO.AVOID USE OF OLD/NEW BATTERIES,BATTERIES OF  
VARYING SIZES/TYP IN SAME BATTERY ASSBLY.AVOID ENCASING IN AIRTIGHT  
COMPARTMENTS-FLAMM HY DROGEN GENERATED & FORM EXPLO MIXTURE.

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

Respiratory Protection:NONE SHOULD BE NEE  
DED.

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

Protective Gloves:IMPERVIOUS GLOVES.

Eye Protection:SAFETY GLASSES W/SIDESHILED OR GOGGLES.

Other Protective Equipment:WASHING FACILITIES. WEAR EYE/SKIN PROTECTION  
WHEN HANDLING DAMAGED BATTERY.

Work Hygienic Practices:WASH HANDS AFT HANDLING LEAKING/DAMAGED  
BATTERIES.WASH CONTAMIN CLOTH BEFORE REUSE.DESTROY/CLEAN WELL  
CONTAIMN SHOES.

Supplemental Safety  
and Health

DO NOT STOREI N MANNER THAT ALLOWS TERMINALS TO SHORT CIRCUIT.HI TEMP  
CAN CAUSE LEAKAGE &/OR EXPLO. DR:MANAGE BATTERY INGEST IN SAME WAY  
AS OTHER SMALL METALLIC OBJ INGESTIONS.USE X-RAY FOR POSITION/I  
NTEGRITY OF OBJ IN GI TRACT.BATTERY