

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 III)
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 RE
C Limits:NONE RECOMMENDED

Ingred Name:GRAPHITE (NATURAL)
CAS:7782-42-5
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/UP

PER RESP TRACT IRRIT.EYE/SKIN: BURNS,VAP/FUMES IRRIT,METAL
FRAG 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:ROUTIN

E HANDLE/USE OF INTACT/NON-DAMA BATTERY NOT EXPECTED TO
RESULT IN SITUATIONS REQUIRING 1ST AID MEASURE.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 Poi

nt: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.

=====
===== Accidenta

I 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 NEEDED.

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 CONTAINM 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