

EASTMAN KODAK COMPANY -- 847 1484 EKTACOLOR RA BLEACH-FIX & REPLNSHER, WORK SOLN  
-- 6750-01-319-5407

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

Product ID:847 1484 EKTACOLOR RA BLEACH-FIX & REPLNSHER, WORK SOLN

MSDS Date:06/14/1996

FSC:6750

NIIN:01-319-5407

MSDS Number: BTTCM

=== 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- 242-2424

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

===== Compositi

on/Information on Ingredients =====

Ingred Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Fraction by Wt: 80-85%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:AMMONIUM THIOSULFATE  
CAS:7783-18-8  
RTECS #:XN6465000  
Fraction by Wt: 5-10%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:FERRIC AMMONIUM ETHYLENEDIAMINETETRAACETIC ACID  
CAS:21265-50-9  
Fraction by Wt: 5-10%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:SODIUM BISULFITE (SASA III) (CERCLA)  
CAS:7631-90-5  
RTECS #:VZ2000000  
Fraction by Wt: 1-5%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:5 MG/M3  
ACGIH TLV:5 MG/M3; 9596  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:ACETIC ACID (CERCLA)  
CAS:64-19-7  
RTECS #:AF1225000  
Fraction by Wt: 1-5%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:10 PPM  
ACGIH TLV:10 PPM/15 STEL; 9596  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:NO Skin:NO Ing

estion:NO

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

Health Hazards Acute and Chronic:INHAL:EXPECTED TO BE LOW HAZ FOR RECOMMENDED HNDLG.EYES:NO SPECIFIC HAZ KNOWN.MAY CAUSE TRANSIENT IRRIT.SKIN:LOW HAZ FOR RECOMMENDED HNDLG.INGEST:EXPECTED TO BE LOW INGESTION HAZ.SOME ASTHMATICS OR SU LFITE-SENSITIVE INDIVIDUALS MAY EXPERIENCE WHEEZING,CHEST TIGHTNESS,STOMACH UPSET,HIVES,FAINTNESS,WEAKNESS,DIARRHEA.

Explanation of Carcinogenicity:PER MSDS:CARCINOGENICITY CLASSI

FICATION:IARC/ACGIH/NTP/OSHA:NONE.

Effects of Overexposure:TRANSIENT EYE IRRITATION. SOME ASTHMATICS OR SULFITE-SENSITIVE INDIVIDUALS MAY EXPERIENCE WHEEZING,CHEST TIGHTNESS,STOMACH UPSET,HIVES,FAINTNESS,WEAKNESS,DIARRHEA.

Medical Cond Aggravated by Exposure:SOME ASTHMATICS OR SULFITE-SENSITVE INDIVIDUALS MAY EXPERIENCE WHEEZING, CHEST TIGHTNESS, STOMACH UPSET, HIVES, FAINTNESS, WEAKNESS, DIARRHEA.

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

First Aid:l

NHAL:IF SYMPTOMATIC MOVE TO FRESH AIR. GET MED ATTN IF SYMPTONS PERSIST. EYES:ANY MATL THAT CONTACTS EYE SHOULD BE WASHED OUT IMMED W/WATER. GET MED ATTN IF SYMPTOM OCCUR. SKIN:WASH W/SOAP & WATER. G ET MED ATTN IF SYMPTOMS OCCUR. INGEST:DRINK 1-2 GLASSES OF WATER. SEEK MED ATTN. NEVER GIVE ANYTHING BY MOUTH TO UNCONSCIOUS PERSON.

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

Flash Point:NONE,NON-COMBUST

Autoignition Temp:Autoignition Temp Text:NP

Ext

inguishing Media:USE APPROPRIATE AGENT FOR ADJACENT FIRE.

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

Unusual Fire/Explosion Hazard:NONE.

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

Spill Release Procedures:FLUSH TO SEWER W/LG AMTS OF WATER.OTHERWISE ABSORB W/VERMICULITE OR OTHER INERT MATERIAL, THEN PLACE IN CONTAINER FOR CHEMICAL WASTE. CLEA

N SURFACE THOROUGHLY TO REMOVE  
RESIDUAL CONTAMINATION.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:USE W/ADEQUATE VENTILATION.KEEP FROM  
CONTACT W/OXIDIZING MATLS.KEEP CNTNR TIGHTLY CLSD.KEEP AWAY FROM  
INCOMPAT SUBL.

Other Precautions:PROPERITES:LOW BIOCHEM OXY DEMAND & LITTLE POT TO  
CAUSE OXY DEPLETION IN AQU SYS;LOW POT TO AFFECT AQU ORG & 2ND  
WASTE TREAT MICROBIAL M  
ETABOLISM;HI POT TO AFFECT GERMINATION &/OR  
EARLY GROWTH OF SOME PLANTS;LOW POT TO BIOCONC.AFT DIL (SUP)

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

Respiratory Protection:NONE SHOULD BE NEEDED.FULL-FACE  
POSITIVE-PRESSURE AIR-SUPPLIED RESP MUST BE WORN IF HAZ  
DECOMPOSITION PRODUCTS ARE LIKELY TO BE RELESED OR HAVE BEEN  
RELEASED.IF RESP ARE USED PROGRAM SHOULD BE INSTITU TED TO ASSURE  
COMPLIANCE W/29CFR1910.134

Ventilation:GOOD GENERAL VENTILATION (T  
YPICALLY 10 AIR CHANGES/HR)

SHOULD BE USED. VENTILATION RATES SHOULD BE MATCHED TO CONDITIONS

Protective Gloves:IMPERVIOUS GLOVES.

Eye Protection:SAFETY GLASSES W/SIDE SHIELDS, GOGGLES.

Other Protective Equipment:EYEBATH, WASHING FACILITIES, SAFETY SHOWER.

Work Hygienic Practices:WASH THOROUGHLY AFT HNDLG.GOOD INDUSTRIAL  
HYGIENE PRAC TO MIN EYE/SKIN CONTACT.

Supplemental Safety and Health

PH:5.3-5.5. OTHER PRECAUT:W/LG AMT OF WATER & 2ND WASTE TREAT MATL NOT  
EXPECTED TO CAUSE ADVERSE

ENVIRO EFFECTS. PNIND:A FOR PART B. TO  
MAKE 25 GALLONS.

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

HCC:C3

Boiling Pt:B.P. Text:>212F,>100C

Melt/Freeze Pt:M.P/F.P Text:NP

Decomp Temp:Decomp Text:NP

Vapor Pres:18

Vapor Density:0.6

Spec Gravity:1.10

pH:SUPPLE

Viscosity:NP

Evaporation Rate & Reference:NP

Solubility in Water:COMPLETE.

Appearance and Odor:LIQUID, DARK REDDISH-BROWN COLOR, SLIGHT AMMONIA  
ODOR.

Percent Volatiles by Volume:70-75

Corrosion Rate:NP

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

Stability Indicator/Materials to Avoid: YES

STRONG ACIDS, STRONG OXIDIZING AGENTS, BASES, SODIUM HYPOCHLORITE (BLEACH). CONTACT W/BASE LIBERATES FLAMM MATL.

Stability Condition to Avoid: NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products: CARBON DIOXIDE, CARBON MONOXIDE, OXIDES OF NITROGEN, OXIDES OF SULFUR. AMMONIA, SULFUR DIOXIDE, CHLORAMINE, NITROGEN OXIDES-NOX

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

Waste Disposal Methods: DISCHARGE/TREATMENT/DISPOSAL MAY BE SUBJECT TO NATIONAL/STATE/LOCAL LAWS. FLUSH TO SEWER W/LG AMTS OF WATER. CHEM SUBJ TO SEC 313 TITLE III SARA/40CFR372 REPORTING REQMTS: NONE.

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.