

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

===== Composit

ion/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 In

gestion: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 CLASS

IFICATION: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:

INHAL: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

Ex

tinguishing 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. CLE

AN 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  
METABOLISM;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 (  
TYPICALLY 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 ADVERS

E 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

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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.

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