

EASTMAN KODAK COMPANY -- 821 8950 FLEXICOLOR RA FIXER AND  
REPLENISHER,CONCENTRATE -- 6750-01-376-5890

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

Product ID:821 8950 FLEXICOLOR RA FIXER AND REPLENISHER,CONCENTRATE

MSDS Date:06/07/1996

FSC:6750

NIIN:01-376-5890

MSDS Number: BXXNG

=== 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

===== Compos

ition/Information on Ingredients =====

Ingred Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Fraction by Wt: 50 - 55%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:NOT RELEVANT  
ACGIH TLV:NOT RELEVANT

Ingred Name:AMMONIUM THIOCYANATE (CERCLA)  
CAS:1762-95-4  
RTECS #:XK7875000  
Fraction by Wt: 20 - 25%  
Other REC Limits:NONE RECOMMENDED  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:AMMONIUM THIOSULFATE  
CAS:7783-18-8  
RTECS #:XN6465000  
Fraction by Wt: 15 - 20%  
Other REC Limits:NONE RECOMMEN  
DED

Ingred Name:SODIUM SULFITE  
CAS:7757-83-7  
RTECS #:WE2150000  
Fraction by Wt: 1 - 5%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:AMMONIUM SULFITE (CERCLA)  
CAS:10196-04-0  
Fraction by Wt: 1 - 5%  
Other REC Limits:NONE RECOMMENDED  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

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

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS NOT KNOWN.  
Routes of Entry: Inhalation:NO Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS:EYE, SKIN, GI TRACT.  
ACUTE- CAUSES EYE & SKIN IRRITATION. HARMFUL IF ABSORBED THROUGH SKIN. EXPECTED TO BE A LOW HAZARD BY INHALATION. HYDROGEN CYANIDE GAS, FORMED IN CONTACT WITH STRONG OXIDIZER/ACID, CAN CAUSE DIZZINESS, UNCONSCIOUSNESS, CONVULSION & DEATH. HARMFUL IF INGESTED. CHRONIC - UNKNOWN.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:IRRITATION, NAUSEA, VOMITING

Medical Cond Aggravated by Exposure:INDIVID

UALS WITH PRE-EXISTING SKIN

DISORDERS OR EYE PROBLEMS MAY BE MORE SUCCEPTIBLE TO THE EFFECTS FROM EXPOSURE TO THIS PRODUCT.

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

First Aid:GET MEDICAL ATTENTION IF SYMPTOMS PERSIST.

EYES/SKIN:IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. INHALED:REMOVE TO FRESH AIR. ORAL:IF CONSCIOUS, INDUCE VOMITING IMMEDIATELY AS DIRE CTED BY MEDICAL PERSONNEL. CALL A PHYSICIAN/POISON CONTROL CENTER IMME

DIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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

Flash Point:NONE

Lower Limits:NOT RELEVANT

Upper Limits:NOT RELEVANT

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE (CO2), ALCOHOL FOAM OR DRY CHEMICAL. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. HAZARDOUS DECOMPOSITION PRODUCTS MAY BE FORMED.

Unusual Fire/Explosion Hazard:NONE

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

Spill Release Procedures:FLUSH TO SEWER WITH LARGE AMOUNT OF WATER IF PERMITTED. OTHERWISE, ABSORB SPILL WITH INERT MATERIAL SUCH AS VERMICULITE. PLACE IN A CONTAINER FOR DISPOSAL. CLEAN AREA THOROUGHLY TO REMOVE RESIDUAL CON TAMINATION. PREVENT RUNOFF FROM ENTERING SEWERS.

Neutralizing Agent:NOT RELEVANT

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

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Handling and Storage Precautions:STORE AWAY FROM INCOMPATIBLE MTERIALS.  
KEEP CONTAINER CLOSED. KEEP OUT OF REACH OF CHILDREN.

Other Precautions:AVOID CONTACT WITH EYES, SKIN AND CLOTHING. USE WITH  
ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. CONTACT WITH  
BASE LIBERATES FLAMMABLE GAS. CONTACT WITH STRONG OXIDIZING AGENTS  
OR STRONG ACI DS LIBERATES FLAMMABLE AND TOXIC GAS.

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

Respiratory Protection:N

ONE SHOULD BE NEEDED. A NIOSH-APPROVED  
FULL-FACE POSITIVE-PRESSURE AIR-SUPPLIED RESPIRATOR MUST BE WORN IF  
HAZARDOUS DECOMPOSITION PRODUCTS ARE LIKELY TO BE RELEASED OR HAVE  
BEEN RELEASED.

Ventilation:GOOD GENERAL VENTILATION (TYPICALLY 10 AIR CHANGES/HR)  
SHOULD BE USED. VENTILATION RATES SHOULD BE MATCHED TO CONDITIONS

Protective Gloves:RUBBER

Eye Protection:SAFETY GLASSES WITH SIDE SHIELDS/GOGGLES

Other Protective Equipment:EYE BATH, SAFETY SHOWER, WASHING FACILITIES

Work Hygie

nic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND  
RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING,  
DRINKING/SMOKING.

Supplemental Safety and Health

DIFFERENT FORMULA, SEE PNI A. SEE PNI X FOR WORKING SOLUTION.

ECOLOGICAL INFORMATION: A MODERATE BIOCHEMICAL OXYGEN DEMAND, A LOW  
POTENTIAL TO AFFECT AQUATIC ORGANISMS. WHEN DILUTED WITH LARGE  
AMOUNT OF WATER, THIS MATERIAL RELEASED DIRECTLY OR INDIRECTLY  
INTO ENVIRONMENT IS NOT EXPECTED TO HAVE A SIGNIFICANT  
IMPACT.

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

HCC:N1

NRC/State Lic Num:NOT RELEVANT

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

Vapor Pres:18 @ 68F

Vapor Density:0.6

Spec Gravity:1.184

pH:6.5

Solubility in Water:COMPLETE

Appearance and Odor:LIGHT YELLOW LIQUID - SLIGHT VINEGAR ODOR

Percent Volatiles by Volume:50- 55

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS (E.G. SODIUM HYPOCHLORI

TE (BLEACH)), STRONG  
ACIDS (E.G. SULFURIC ACID), BASES

Stability Condition to Avoid:NONE

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE,  
OXIDES OF SULFUR, OXIDES OF NITROGEN, AMMONIA, CHLORAMINE,  
CYANIDES, CARBONYL SULFIDE

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

Waste Disposal Methods:DISCHARGE, TREATMENT OR DISPOSAL MAY BE SUBJECT  
TO FEDERAL, STATE OR LOCAL LAWS. FLUSH TO SEWER WITH LARGE AMOUNT  
OF WATER, IF ALLOWED. FOR LARGE  
AMOUNTS, CONTRACT WITH A LICENSED  
CHEMICAL DISPOSAL AG ENCY.

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