

EASTMAN KODAK COMPANY -- 139 0913,A,EKTACOLOR PRIME BLEACH FIX (SEE SUPPL DATA) --  
6750-01-387-7805

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

Product ID:139 0913,A,EKTACOLOR PRIME BLEACH FIX (SEE SUPPL DATA)

MSDS Date:07/13/2000

FSC:6750

NIIN:01-387-7805

Status Code:A

Kit Part:Y

MSDS Number: CKTSP

=== 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/(800) 242-2424

Emergency Phone Num:716 722-5151

Preparer's Name:NOT PROVIDED

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

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

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Minimum % Wt:55.

Maxumum %

Wt:60.  
Other REC Limits:NOT PROVIDED  
Code:F  
Code:F

Ingred Name:AMMONIUM THIOSULFATE  
CAS:7783-18-8  
RTECS #:XN6465000  
= Wt:30.  
Other REC Limits:NOT PROVIDED  
OSHA PEL:NOT PROVIDED  
ACGIH TLV:NOT PROVIDED

Ingred Name:SODIUM BISULFITE  
CAS:7631-90-5  
RTECS #:VZ2000000  
Minumum % Wt:5.  
Maxumum % Wt:10.  
Other REC Limits:NOT PROVIDED  
OSHA PEL:NOT PROVIDED  
ACGIH TLV:5 MG/M3  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:AMMONIUM BISULFITE  
CAS:10192-30-0  
RTECS #:WT3595000  
= Wt:1.  
Other REC Limits:N  
OT PROVIDED  
OSHA PEL:NOT PROVIDED  
ACGIH TLV:NOT PROVIDED  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:AMMONIUM SULFITE  
CAS:10196-04-0  
= Wt:1.  
Other REC Limits:NOT PROVIDED  
OSHA PEL:NOT PROVIDED  
ACGIH TLV:NOT PROVIDED  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

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

LD50 LC50 Mixture:NOT PROVIDED  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:INHALATION: EXPECTED LOW HAZARD FOR  
REC

RECOMMENDED HANDLING. IN CONTACT WITH STRONG ACIDS OR HEATED, SULFITES MAY LIBERATE SULFUR DIOXIDE GAS. SULFUR DIOXIDE GAS IS IRRITATING TO RESPIRATORY TRACT. ASTHMATICS OR HYPERSENSITIVE INDIVIDUALS MAY EXPERIENCE DIFFICULT BREATHING. EYES: CAUSES IRRITATION. SKIN: MATERIAL HAS LOW POTENTIAL TO CAUSE ALLERGIC SKIN REACTIONS; CASES OF HUMAN SKIN SENSITIZATION REPORTED. INGESTION: MAY BE HARMFUL IF SWALLOWED. ASTHMATICS OR SULFITE-SENSITIVE INDIVIDUALS MAY EXPERIENCE WHEEZING, CHEST TIGHTNESS, STOMACH UPSET, HIVES, FAINTNESS, WEAKNESS AND DIARRHEA. MAY CAUSE IRRITATION OF GASTROINTESTINAL TRACT.

Explanation of Carcinogenicity: CARCINOGENICITY CLASSIFICATION (COMPONENTS PRESENT AT 0.1% OR MORE): - INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC): NONE - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH): NONE - NATIONAL TOXICOLOGY PROGRAM (NTP): NONE - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA): NONE

Effects of Overexposure: INHALATION: IN CONTACT WITH STRONG ACIDS OR HEATED, SULFITES MAY LIBERATE SULFUR DIOXIDE GAS. SULFUR DIOXIDE GAS IS IRRITATING TO RESPIRATORY TRACT. ASTHMATICS OR HYPERSENSITIVE INDIVIDUALS MAY EXPERIENCE DIFFICULT BREATHING. EYES: CAUSES IRRITATION. INGESTION: ASTHMATICS OR SULFITE-SENSITIVE INDIVIDUALS MAY EXPERIENCE WHEEZING, CHEST TIGHTNESS, STOMACH UPSET, HIVES, FAINTNESS, WEAKNESS AND DIARRHEA. MAY CAUSE IRRITATION OF GASTROINTESTINAL TRACT.

Medical Conditions Aggravated by Exposure: SOME ASTHMATICS, HYPERSENSITIVE OR SULFITE-SENSITIVE INDIVIDUALS MAY EXPERIENCE DIFFICULT BREATHING, WHEEZING, CHEST TIGHTNESS, STOMACH UPSET, HIVES, FAINTNESS, WEAKNESS AND DIARRHEA.

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

First Aid: INHALATION: IF SYMPTOMATIC, MOVE TO FRESH AIR. TREAT SYMPTOMATICALLY. GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR. SKIN: WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR. INGESTION: DRINK 1-2 GLASSES OF WATER. SEEK MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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

Flash Point: NONE  
Extinguishing Media: FLOOD WITH WATER.  
Fire Fighting Procedures: WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. FIRE OR EXCESSIVE HEAT MAY

AY PRODUCE HAZARDOUS  
DECOMPOSITION PRODUCTS.

Unusual Fire/Explosion Hazard:SOLUTION CONTAINS A STRONG REDUCING  
AGENT. DRIED PRODUCT RESIDUE CAN ACT AS A REDUCING AGENT.

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

Spill Release Procedures:FLUSH TO SEWER WITH LARGE AMOUNTS OF WATER.  
OTHERWISE, ABSORB SPILL WITH VERMICULITE OR OTHER INERT MATERIAL,  
THEN PLACE IN A CONTAINER FOR CHEMICAL WASTE. CLEAN SURFACE  
THOROUGHLY TO REMOVE RESIDUAL CONTAMINATION.

Neutralizing Agent:NOT PROVIDED

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

Handling and Storage Precautions:KEEP CONTAINER TIGHTLY CLOSED TO  
PREVENT THE LOSS OF WATER. KEEP FROM CONTACT WITH OXIDIZING  
MATERIALS, HIGHLY OXYGENATED OR HALOGENATED SOLVENTS, ORGANIC  
COMPOUNDS CONTAINING REDUCIBLE FUNCTIONAL GRO UPS.

Other Precautions:AVOID BREATHING MIST OR VAPOR. AVOID CONTACT WITH  
EYES AND PROLONGED OR REPEATED CONTACT WITH SKIN. USE WITH ADEQUATE  
VEN

TILATION. WASH THOROUGHLY AFTER HANDLING. DO NOT STORE OR SHIP  
TOGETHER WITH CO MBUSTIBLE MATERIAL. STORE IN ORIGINAL  
CONTAINER.KEEP AWAY FROM INCOMPATIBLE SUBSTANCES

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

Respiratory Protection:NONE SHOULD BE NEEDED. A RESPIRATOR SHOULD BE  
WORN IF HAZARDOUS DECOMPOSITION PRODUCTS ARE LIKELY TO BE OR HAVE  
BEEN RELEASED. RESPIRATOR TYPE: ACID GAS. SEE STABILITY AND  
REACTIVITY SECTION. IF RESP IRATORS ARE USED, A  
PROGRAM SHOULD BE

INSTITUTED TO ASSURE COMPLIANCE WITH OSHA STANDARD 29 CFR 1910.134.

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

Protective Gloves:FOR PROLONGED OR REPEATED SKIN CONTACT: IMPERVIOUS  
GLOVES SHOULD BE WORN.

Eye Protection:WEAR SAFETY GLASSES WITH SIDE SHIELDS (OR GOGGLES).

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

Work Hygienic Practices:IT

IS A GOOD INDUSTRIAL HYGIENE PRACTICE TO  
MINIMIZE SKIN CONTACT.  
Supplemental Safety and Health  
CONTINUED FROM PRODUCT ID: AND REPLENISHER. A = PART A.

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

HCC:N1  
NRC/State Lic Num:NOT RELEVANT  
Boiling Pt:>100.C, 212.F  
Melt/Freeze Pt:M.P/F.P Text:NOT PROVIDED  
Decomp Temp:Decomp Text:NOT PROVIDED  
Vapor Pres:(68F):24 MBAR 18 MM HG  
Vapor Density:0.6  
Spec Gravity:1.23  
pH:5.3  
Viscosity:NOT PROVIDED  
Evaporation Rate & Reference:  
NOT PROVIDED  
Solubility in Water:COMPLETE  
Appearance and Odor:COLORLESS LIQUID. ODOR: AMMONIA  
Percent Volatiles by Volume:55-60 WT  
Corrosion Rate:NOT PROVIDED

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

Stability Indicator/Materials to Avoid:YES  
STRONG ACIDS, STRONG OXIDIZING AGENTS, COMBUSTIBLE MATERIAL,  
HALOGENATED MATERIALS, BASES, SODIUM HYPOCHLORITE (BLEACH). CONTACT  
WITH BASE LIBERATES FLAMMABLE MATERIAL.  
Stability Condition to Avoid:NOT PROVIDED  
Hazardous  
Decomposition Products:AMMONIA, SULFUR DIOXIDE, CHLORAMINE,  
CARBON DIOXIDE, CARBON MONOXIDE, OXIDES OF NITROGEN, OXIDES OF  
SULFUR.

===== Toxicological Information =====

Toxicological Information:INHALATION: EXPECTED LOW HAZARD FOR  
RECOMMENDED HANDLING. IN CONTACT WITH STRONG ACIDS OR HEATED,  
SULFITES MAY LIBERATE SULFUR DIOXIDE GAS. SULFUR DIOXIDE GAS IS  
IRRITATING TO RESPIRATORY TRACT. ASTHM ATICS OR HYPERSENSITIVE  
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IRRITATION. SKIN: MATERIAL HAS LOW POTENTIAL TO CAUSE ALLERGIC SKIN REACTIONS; CASES OF HUMAN SKIN SENSITIZATION REPORTED. INGESTION: MAY BE HARMFUL IF SWALLOWED. ASTHMATICS OR SULFITE-SENSITIVE INDIVIDUALS MAY EXPERIENCE WHEEZING, CHEST TIGHTNESS, STOMACH UPSET, HIVES, FAINTNESS, WEAKNESS AND DIARRHEA. MAY CAUSE IRRITATION OF GASTROINTESTINAL TRACT.

===== Ecological Information =====

Ecological:TH

THE FOLLOWING PROPERTIES ARE ESTIMATED FROM THE COMPONENTS OF THE PREPARATIONS. POTENTIAL TOXICITY: FISH LC50 MG/L: >100. DAPHNID EC50 MG/L: >100. ALGAL IC50 MG/L: NOT AVAILABLE. ORGANICS READILY DEGRADABLE (>70%): YES (7 DAYS). POTENTIAL BIOACCUMULATION: LOG POW