

EASTMAN KODAK COMPANY -- 138 8701,PT A, KODAK EKTACOLOR RA BLEACH FIX AND REPLENISHER -- 6750-01-478-2940

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

Product ID:138 8701,PT A, KODAK EKTACOLOR RA BLEACH FIX AND REPLENISHER

MSDS Date:05/01/2000

FSC:6750

NIIN:01-478-2940

Status Code:A

Kit Part:Y

MSDS Number: CKTXL

=== Responsible Party ===

Company Name:EASTMAN KODAK COMPANY

Address:343 STATE STREET

City:ROCHE

STER

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

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

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Minimum % Wt:50

Maxumum % Wt:55.
Other REC Limits:NOT PROVIDED
Code:F
Code:F

Ingred Name:AMMONIUM THIOSULFATE
CAS:7783-18-8
RTECS #:XN6465000
= Wt:40.
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 R
EC Limits:NOT 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
Minumum % Wt:1.
Maxumum % Wt:5.
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:EFFECTS

OF EXPOSURE: INHALATION:

EXPECTED TO BE A LOW HAZARD FOR USUAL INDUSTRIAL OR COMMERCIAL HANDLING BY TRAINED PERSONNEL. IN CONTACT WITH STRONG ACIDS OR IF HEATED, SULFITES MAY LIBERATE SULFUR DIOXIDE GAS. SULFUR DIOXIDE GAS IS IRRITATING TO THE RESPIRATORY TRACT. SOME ASTHMATICS OR HYPERSENSITIVE INDIVIDUALS MAY EXPERIENCE DIFFICULT BREATHING. EYES: CAUSES IRRITATION. SKIN: THIS MATERIAL HAS A LOW POTENTIAL TO CAUSE ALLERGIC SKIN REACTIONS; HOWEVER, CASES OF HUMAN SK

IN

SENSITIZATION HAVE BEEN REPORTED. INGESTION: MAY BE HARMFUL IF SWALLOWED. MAY CAUSE IRRITATION OF THE 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 IF HEATED, SULFITES MAY LIBERATE SULFUR DIOXIDE GAS. SULFUR DIOXIDE GAS IS IRRITATING TO THE RESPIRATORY TRACT. SOME ASTHMATICS OR HYPERSENSITIVE INDIVIDUALS MAY EXPERIENCE DIFFICULT BREATHING. EYES: CAUSES IRRITATION. INGESTION: MAY CAUSE IRRITATION OF THE 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.

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First Aid Measures
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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. WASH CONTAMINATED CLOTHING BEFORE REUSE. DESTROY OR THOROUGHLY CLEAN CONTAMINATED SHOES. INGESTION: DRINK 1-2 GLASSES OF WATER. SEEK MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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Fire Fighting Measures
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Flash Point: NONE

Extinguishing Media: USE APPROPRIATE AGENT FOR ADJACENT FIRE. FLOOD WITH WATER.

Fire Fighting Procedures: WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. FIRE OR EXCESSIVE HEAT

MAY 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:COLLECT IN A NONCOMBUSTIBLE CONTAINER FOR
PROMPT DISPOSAL.

Neutralizing Agent:NOT PROVIDED

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

Handling and Storage Precautions:KEEP CONTAINER TIGHTLY CLOSE
D TO

PREVENT THE LOSS OF WATER. KEEP AWAY FROM INCOMPATIBLE SUBSTANCES
(SEE INCOMPATIBILITY SECTION). DO NOT STORE OR SHIP TOGETHER WITH
COMBUSTIBLE MATERIAL. STORE IN ORIGINAL CONTAINER. KEEP FROM
CONTACT WITH OXIDIZING MATERIALS, HIGHLY OXYGENATED/ HALOGENATED
SOLVENTS.

Other Precautions:AVOID BREATHING MIST OR VAPOR. AVOID CONTACT WITH
EYES AND PROLONGED OR REPEATED CONTACT WITH SKIN. USE WITH ADEQUATE
VENTILATION. WASH THOROUGHLY AFTER HANDLING. KEEP AWAY FROM

COMBUSTIBLE MATERIAL. REMOVE AND WASH CONTAMINATED CLOTHING
PROMPTLY.

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

Respiratory Protection:IF ENGINEERING CONTROLS DO NOT MAINTAIN AIRBORNE
CONCENTRATIONS BELOW RECOMMENDED EXPOSURE LIMITS, AN APPROVED
RESPIRATOR MUST BE WORN. RESPIRATOR TYPE: FULL-FACE ORGANIC VAPOR
CARTRIDGE A RESPIRATOR SHOULD BE WORN IF HAZARDOUS DECOMPOSITION
PRODUCTS ARE LIKELY TO BE OR HAVE BEEN RELEASED. RESPIRATOR TYPE:

ACID GAS. OBSERVE OSHA STANDARD 29 CFR 1910.134.

Ventilation:USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER
ENGINEERING CONTROLS TO MAINTAIN AIRBORNE LEVELS BELOW RECOMMENDED
EXPOSURE LIMITS.

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, WASHING FACILITIES, SAFETY SHOWER.

Work Hygienic Practices:IT IS A GOOD INDUSTRIAL HYG

IE NE PRACTICE TO
MINIMIZE SKIN CONTACT.
Supplemental Safety and Health
NONE

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

HCC:C3
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:1.24
pH:5.5
Viscosity:NOT PROVIDED
Evaporation Rate & Reference:NOT PROVIDED
Solubility in Water:COMPLETE
Appearance and Odor:COLORLESS LI
QUID. ODOR: AMMONIA
Percent Volatiles by Volume:50-55 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 DIO
XIDE, CARBON MONOXIDE, OXIDES OF NITROGEN, OXIDES OF
SULFUR.

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

Toxicological Information:EFFECTS OF EXPOSURE: INHALATION: EXPECTED TO
BE A LOW HAZARD FOR USUAL INDUSTRIAL OR COMMERCIAL HANDLING BY
TRAINED PERSONNEL. IN CONTACT WITH STRONG ACIDS OR IF HEATED,
SULFITES MAY LIBERATE SULFUR D IOXIDE GAS. SULFUR DIOXIDE GAS IS
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===== Ecological Information =====

Ecological:THE FOLLOWING PROPERTIES ARE ESTIMATED FROM THE COMPONENTS OF THE PREPARATIONS. POTENTIAL TOXICITY: FISH LC50

0 MG/L: >100.

DAPHNID EC50 MG/L: >100. ALGAL IC50 MG/L: >100. ORGANICS

READILY DEGRADABLE (>70%): YES (7 DAYS). POTENTIAL

BIOACCUMULATION: LOG POW