

EASTMAN KODAK COMPANY -- 813 5048 3000 FIXER AND REPLENISHER,PART A --  
6750-01-363-8343

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

Product ID:813 5048 3000 FIXER AND REPLENISHER,PART A

MSDS Date:04/19/1995

FSC:6750

NIIN:01-363-8343

MSDS Number: BXXMY

=== Responsible Party ===

Company Name:EASTMAN KODAK COMPANY

Address:343 STATE STREET

City:ROCHESTER

State:NY

ZIP:14650

Country:US

Info Phone Num:716-477-319

4 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

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

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Fraction by Wt: 40-45%

Other REC Limits:NONE RECOMMENDED

Ingred Name:AMMONIUM THIOSULFATE

CAS:7783-

18-8  
RTECS #:XN6465000  
Fraction by Wt: 40-45%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:SODIUM ACETATE  
CAS:127-09-3  
RTECS #:AJ4300010  
Fraction by Wt: 5-10%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:BORIC ACID  
CAS:10043-35-3  
RTECS #:ED4550000  
Fraction by Wt: 1-5%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:10 MG BORATES/M3  
ACGIH TLV:5 MG BORATES/M3

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

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; 9495  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

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

LD50 LC50 Mixture:ORAL LD50 RAT > 2545MG/KG  
Routes of Entry: Inhalation:NO Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:INHAL:EXPECTED TO BE A LOW

HAZ FOR

RECOMMENDED HANDLING. EYES:NO SPECIFIC HAZ KNOWN. MAY CAUSE TRANSIENT IRRIT. SKIN:LOW HAZARD FOR RECOMMENDED HANDLING. INGEST:EXPECTED TO BE A LOW INGEST HAZARD.

Explanation of Carcinogenicity:PER MSDS:CARCINOGENICITY

CLASSIFCIATION:NONE FOR IARC/ACGIH/NTP/OSHA.

Effects of Overexposure:TRANSIENT EYE IRRITATION.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:INHAL:IF SYMP

TOMATIC MOVE TO FRESH AIR.GET MED ATTN IF

SYMPTOMS PERSIST. EYES:ANY MATERIAL THAT CONTACTS EYE SHOULD BE WASHED OUT IMMED W/WATER.GET MED ATTN IF SYMTOMS OCCUR. SKIN:WASH W/SOAP/WATER.GET MED ATTN. INGEST:DRINK 1-2 GLASSES OF WATER.SEEK MED ATTN.NEVER GIVE ANYTHING BY MOUTH TO AN UNCONS PERSON.

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

Flash Point:NONE,NON-COMBUST

Extinguishing Media:USE APPROPRIATE AGENT FOR ADJACENT FIRE.

Fire Fighting Procedures:W

EAR 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 SILL W/VERMICULITE OR OTHER INERT MATL.THEN PLACE IN CNTNR FOR CHEMICAL WASTE.CLEAN SURFACE THOROUGHLY TO REMOVE RESIDUAL CONTAMINATION.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:KEEP FROM CONTACT W/OXIDIZING

MATERIALS.KEEP CNTNR TIGHTLY CLOSED.KEEP AWAY FROM INCOMPATIBLE SUBSTANCES.USE WITH ADEQUATE VENTILATION.

Other Precautions:MODERATELY ACIDIC AQU SOLN W/PROPERTIES:MOD BIOCHEM OXY DEMAND;MAY CAUSE OXY DEPLETION IN AQU SYS;MOD POT TO AFFECT SOME AQU ORGANISM;LOW POT TO AFFECT 2ND WASTE TREAT MICROBIAL METABOLISM;HI POT TO A F

## FECT FROWTH OF SOME PLANT (SUPPLEM)

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

Respiratory Protection:NONE SHOULD BE NEEDED.

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

Protective Gloves:IMPERVIOUS GLOVES FOR RE/PROL CONTACT.

Eye Protection:SAFETY GLASSES W/SIDE SHIELDS.

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

Work Hygienic Practices:WASH THOROUGHLY AFT

ER HANDLING.GOOD INDUSTRIAL

PRACTICE TO MIN SKIN/EYE CONTACT.

Supplemental Safety and Health

OTHER PRECAUT:SEEDLINGS;LOW POT TO PERSIST IN ENVIRO.AFT DIL W/LG AMT OF WATER & 2ND WASTE TREAT MATL NOT EXPECTED TO CAUSE ADVERSE ENVRIO EFFECTS. PER MSDS:30 GALLONS.

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

HCC:N1

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

Vapor Pres:18MM

Vapor Density:0.6

Spec Gravity:1.32

pH:5.0

Solubility in Water:COMPLETE.

Appearance and Odor:LIQUI

D, LIGHT YELLOW, SLIGHT SULFUR & ACETIC ACID ODOR.

Percent Volatiles by Volume:40-45

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

Stability Indicator/Materials to Avoid:YES

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

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:AMMONIA, NITROGEN OXIDES (NOX), SULFUR DIOXIDE, CHLORAMINE.

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Disposal Considerations =====

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

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