

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:716-477-31

94 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 SYM

PTOMATIC 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 SYMPTOMS 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:

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

Neutralizing Agent:NONE SPECI

FIED 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

FFECT 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 AF

TER 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:LIQU

ID, 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.

=====

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.

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, w
arrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.