

## **146 4114 KODAK RAPID FIXER, PART A**

### **MSDS Number**

BXGYJ

### **National Stock Number**

6750-00-528-0473

### **Product Name**

146 4114 KODAK RAPID FIXER, PART A

### **Manufacturer**

EASTMAN KODAK COMPANY

### **Product Identification**

Product ID:146 4114 KODAK RAPID FIXER, PART A

MSDS Date:01/17/1994

FSC:6750

NIIN:00-528-0473

Kit Part:Y

MSDS Number: BXGYJ

### **Responsible Party**

EASTMAN KODAK COMPANY

343 STATE STREET

ROCHESTER , NY 14650

US

Emergency Phone: 716-722-5151

Info Phone: 800- 242-2424

Cage: 19139

### **Contractor**

EASTMAN KODAK CO GOVERNMENT MARKETS CONTRACTS

ROCHESTER, NY 14650-1115

US

716-722-5151/(800) 242-2424

Cage: 19139

### **Ingredients**

WATER

CAS: 7732-18-5

RTECS: ZC0110000

Fraction By Weight: 40-45%

AMMONIUM THIOSULFATE

CAS: 7783-18-8

RTECS: XN6465000

Fraction By Weight: 40-45%

SODIUM ACETATE

CAS: 127-09-3

RTECS: AJ4300010

Fraction By Weight: 5-10%

BORIC ACID

CAS: 10043-35-3

RTECS: ED4550000

Fraction By Weight: 1-5%

OSHA PEL10 MG BORATES/M3

ACGIH TLV: 5 MG BORATES/M3

AMMONIUM SULFITE (SARA III)

CAS: 10196-04-0

Fraction By Weight: 1-5%

EPA Report Quantity: 5000 LBS

DOT Report Quantity: 5000 LBS

ACETIC ACID (SARA III)

CAS: 64-19-7

RTECS: AF1225000

Fraction By Weight: 1-5%

OSHA PEL10 PPM

ACGIH TLV: 10 PPM/15 STEL; 9394

EPA Report Quantity: 5000 LBS

DOT Report Quantity: 5000 LBS

## Hazards

LD50 LC50 Mixture:ORAL LD50 (RAT): >2540MG/KG

Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:INHAL EXPECTED TO BE A LOW HAZARD FOR

RECOMMENDED HANDLING. EYE:NO SPECIFIC HAZARD KNOWN. MAY CAUSE

TRANSIENT IRRITATION. SKIN:LOW HAZARD FOR RECOMMENDED HANDLING.

INGEST:EXPECTED TO BE A LOW INGESTIO N HAZARD.

Explanation of Carcinogenicity:PER MSDS:NONE.

Effects of Overexposure:TRANSIENT EYE IRRITATION.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

## First Aid

First Aid:INHAL:IF SYMPTOMATIC MOVE TO FRESH AIR. GET MED ATTN IF

SYMPTOMS PERSIST. EYE:ANY MATERIAL THAT CONTACTS EYE SHOULD BE

WASHED OUT IMMED W/WATER. GET MED ATTN IF SYUMPTOMS OCCUR.

SKIN:WASH W/SOAP & WAT ER. GET MED ATTN IF SYMPTOMS OCCUR.

INGEST:DRINK 1-2 GLASSES OF WATER. SEEK MED ATTN.

## Fire Fighting

Flash Point:NONE

Extinguishing Media:USE APPROPRIATE AGENT FOR ADJACENT FIRE.

NON-COMBUSTIBLE LIQUID.

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS &

PROTECTIVE CLOHTING. FIRE OR EXCESSIVE HEAT MAY PRODUCE HAZARDOUS

DECOMPOSITION PRODUCTS.

Unusual Fire/Explosion Hazard:NONE.

## Accidental Release

Spill Release Procedures:MAY REQUIRE NEUTRALIZATION IF PH12.  
FLUSH TO SEWER W/LG AMTS OF WTER. OTHERWISE ABSORB SPILL  
W/VERMICULTIE OR OTHER INERT MATERIAL, THEN PLACE IN CONTAINER FOR  
CHEMICAL WASTE. CLEAN SURFACE THO ROUGHLY TO REMOVE RESIDUAL  
CONTAMINATION.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

## Handling

Handling and Storage Precautions:USE W/ADEQU VENTILATION.KEEP FRM  
CONTACT W/OXIDIZING MATLS.KEEP CNTNR TIGHTLY CLSD.KEEP AWAY FRM  
INCOMPATIBLE SUBSTANCES.KEEP OUT OF REACH OF CHILDREN  
Other Precautions:MODERATELY ACIDIC AQU SOLN.MODERATE BIOCHEM OXY  
DEMAND & MAY CAUSE OXY DEPLETION IN AQU SYS & POT TO AFFECT SOME  
AQUATIC ORGANISMS,LOW POT TO AFFECT 2ND WASTE TREAT MICROBIAL  
METABOLISM,HI POT TO AFFE CT SOME PLANT SEEDLINGS GROWTH,(SUPPLEM)

## Exposure Controls

Respiratory Protection:NONE SHOULD BE NEEDED.  
Ventilation:GOOD GENERAL VENTILATION (TYPICALLY 10 AIR CHANGES/HR)  
SHOULD BE USED. VENTILATION RATES SHOULD BE MATCHED TO CONDITIONS  
Protective Gloves:IMPERVIOUS GLOVES.  
Eye Protection:SAFETY GLASSES W/SIDE SHIELDS OR GOGGLES  
Other Protective Equipment:PROTECTIVE CLOTHING APPROPRIATE FOR RISK OF  
EXPOSURE. RECOMMENDED DECONTAMIN FACILIT:EYEBASH,WASHING  
FACILIT,SAF SHOWER.  
Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.  
Supplemental Safety and Health  
KEY1: C2. OTHER PRECAUT:LOW POT TO PERSIST IN ENVIRO.AFT DILUTION W/LG  
AMT OF WATER & 2ND WASTE TREATMENT MATL NOT EXPECTED TO CAUSE  
ADVERSE ENVIRO EFFECTS. KIT CONSISTS OF PARTS A & B & WORKING SOLNS  
FOR PAPER & FILM. TO MAKE 5 GALLONS.

## Chemical Properties

HCC:C2  
Boiling Pt:>100.C, 212.F  
Vapor Pres:18MM @20C  
Vapor Density:0.6  
Spec Gravity:1.32  
pH:5.0  
Solubility in Water:COMPLETE  
Appearance and Odor:LIQUID, LIGHT YELLOW COLOR, SLIGHT SULFUR DIOXIDE,  
ACETIC ACID ODOR.  
Percent Volatiles by Volume:40-45

## Stability

Stability Indicator/Materials to Avoid:YES  
BASES, SODIUM HYPOCHLORITE (BLEACH), STRONG OXIDIZING AGENTS. CONTACT  
WITH BASE LIBERATES FLAMMABLE MATERIAL.  
Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.  
Hazardous Decomposition Products:AMMONIA, NITROGEN OXIDES (NOX), SULFUR  
DIOXIDE, CHLORAMINE, CARBON MONOXIDE AND CARBON DIOXIDE

## Disposal

Waste Disposal Methods:DISCHARGE, TREATMENT, OR DISPOSAL MAY BE SUBJECT  
TO NATIONAL, STATE, OR LOCAL LAWS. FLUSH TO SEWER WITH LARGE AMTS  
OF WATER. NO CHEMICALS SUBJECT TO REPORTING REQMTS OF SEC 313 OR  
TITLE III SARA & 40C FR PART 372.

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