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

### **MSDS Number**

BFCYR

### **National Stock Number**

6750-00-528-0473

### **Product Name**

146 4114, KODAK RAPID FIXER, PART B

### **Manufacturer**

EASTMAN KODAK COMPANY

### **Product Identification**

Product ID:146 4114, KODAK RAPID FIXER, PART B

MSDS Date:11/08/1995

FSC:6750

NIIN:00-528-0473

Kit Part:Y

MSDS Number: BFCYR

### **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 US CUSTOMER SERVICE/GOVERNMENT SALES

ROCHESTER, NY 14650-3129

US

800-828-6203

Cage: 5K871

### **Ingredients**

WATER

CAS: 7732-18-5

RTECS: ZC0110000

Fraction By Weight: 70-75%

ALUMINUM SULFATE

CAS: 10043-01-3

RTECS: BD1700000

Fraction By Weight: 15-20%

OSHA PEL2 MG/M3

ACGIH TLV: 2 MG/M3; 9596

EPA Report Quantity: 5000 LBS

DOT Report Quantity: 5000 LBS

SULFURIC ACID (SARA 302/313) (CERCLA)

CAS: 7664-93-9

RTECS: WS5600000

Fraction By Weight: 10-15%

OSHA PEL1 MG/M3

ACGIH TLV: 1 MG/M3/3 STEL; 9596

EPA Report Quantity: 1000 LBS

DOT Report Quantity: 1000 LBS

## Hazards

LD50 LC50 Mixture:ORAL LD50 (RAT): 0.5-5.0 G/KG  
Routes of Entry: Inhalation:NO Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:INHALATION-EXPECTED TO BE A LOW  
INHALATION HAZARD FOR RECOMMENDED HANDLING. EYE-CAUSES IRRITATION.  
SKIN-CAUSES IRRITATION. INGESTION-HARMFUL IF SWALLOWED. MAY CAUSE  
BURNS OF THE GASTROINTESTINAL TRACT IF SWALLOWED.  
Explanation of Carcinogenicity:IARC HAS DETERMINED THAT OCCUPATIONAL  
EXPOSURE TO STRONG ACIDS MAY BE CARCINOGENIC TO HUMANS.  
Effects of Overexposure:NONE SPECIFIED BY MANUFACTURER.  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

## First Aid

First Aid:INHALATION: IF SYMPTOMATIC, MOVE TO FRESH AIR. GET MEDICAL  
ATTENTION IF SYMPTOMS PERSIST. EYES: IMMEDIATELY FLUSH WITH WATER  
FOR 15 MINUTES. GET MEDICAL ATTENTION. SKIN: IMMEDIATELY REMOVE  
CONTAMINATED CLOTHING AND WASH WITH SOAP AND WATER.GET MEDICAL  
ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GIVE VICTIM A GLASS  
OF WATER. SEEK MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH IF  
UNCONSCIOUS.

## Fire Fighting

Flash Point:NONFLAMMABLE  
Extinguishing Media:USE APPROPRIATE AGENT FOR ADJACENT FIRE.  
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND  
PROTECTIVE CLOTHING. FIRE OR EXCESSIVE HEAT MAY PRODUCE HAZARDOUS  
DECOMPOSITION PRODUCTS.  
Unusual Fire/Explosion Hazard:NONE.

## Accidental Release

Spill Release Procedures:MAY REQUIRE NEUTRALIZATION. FLUSH TO SEWER IF  
ALLOWABLE WITH LARGE AMOUNTS OF WATER. OTHERWISE, ABSORB SPILL WITH  
VERMICULITE OR OTHER INERT MATERIAL, THEN PLACE IN A CONTAINER FOR  
CHEMICAL WASTE. CLEAN SURFACE TO REMOVE RESIDUAL CONTAMINATION.  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

## Handling

Handling and Storage Precautions:KEEP CONTAINER TIGHTLY CLOSED. KEEP  
AWAY FROM INCOMPATIBLES.  
Other Precautions:DO NOT BREATHE MIST OR VAPOR. AVOID CONTACT WITH  
EYES, SKIN AND CLOTHING. USE WITH ADEQUATE VENTILATION. WASH  
THOROUGHLY AFTER HANDLING.

## Exposure Controls

Respiratory Protection:NONE SHOULD BE NEEDED.  
Ventilation:GOOD GENERAL VENTILATION, TYPICALLY 10 AIR CHANGES PER  
HOUR, SHOULD BE USED. RATES SHOULD MATCH CONDITIONS.  
Protective Gloves:WEAR IMPERVIOUS GLOVES.  
Eye Protection:SAFETY GLASSES W/SIDE SHIELDS OR GOGGLES

Other Protective Equipment:EYE BATH, WASHING FACILITIES, SAFETY SHOWER.  
WEAR PROTECTIVE CLOTHING APPROPRIATE FOR THE RISK OF EXPOSURE.  
Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.  
Supplemental Safety and Health  
KEY1;C1.REFER TO PNIND-D(PT.A);PNIND-W(WORKING SOLUTION FOR FILM);PNIND-X(WORKING SOLUTION FOR PAPER).

## Chemical Properties

HCC:C1  
Boiling Pt:>100.C, 212.F  
Vapor Pres:18 MMHG  
Vapor Density:0.6  
Spec Gravity:1.30  
pH:1.0  
Solubility in Water:COMPLETE  
Appearance and Odor:COLORLESS LIQUID, SLIGHT SULFUR DIOXIDE ODOR  
Percent Volatiles by Volume:70-75%

## Stability

Stability Indicator/Materials to Avoid:YES  
BASES  
Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.  
Hazardous Decomposition Products:SULFUR DIOXIDE

## Disposal

Waste Disposal Methods:DISCHARGE, TREATMENT OR DISPOSAL MAY BE SUBJECT TO NATIONAL, STATE OR LOCAL LAWS. MAY REQUIRE NEUTRALIZATION IF PH < 2.0 OR PH > 12.5. FLUSH TO SEWER WITH LARGE AMOUNTS OF WATER.

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