

EASTMAN KODAK COMPANY

-- 146 4114, PT B, KODAK RAPID FIXER

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MSDS Safety Information

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FSC: 6525

NIIN: 00-935-4105

MSDS Date: 02/08/2001

MSDS Num: CLDBK

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

MFN: 01

Kit Part: Y

Responsible Party

Cage: 19139

Name: EASTMAN KODAK COMPANY

Address: 343 STATE STREET

City: ROCHESTER NY 14650

Info Phone Number: 716-477-3194 MSDS :800- 242-2424

Emergency Phone Number: 716-722-5151

Preparer's Name: NOT PROVIDED

Review Ind: Y

Published: Y

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Contractor Summary

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Cage: 19139

Name: EASTMAN KODAK CO GOVERNMENT MARKETS CONTRACTS

Address: 343 STATE ST

City: ROCHESTER NY 14650-1115

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

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Item Description Information

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Item Manager: S9M

Item Name: FIXER,X-RAY FILM PROCESSING

Unit of Issue: PG

UI Container Qty: 4

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Ingredients

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Cas: 7732-18-5

RTECS #: ZC0110000

Name: WATER

% low Wt: 70.

% high Wt: 75.

Other REC Limits: NOT PROVIDED

OSHA PEL: NOT ESTABLISHED

ACGIH TLV: NOT ESTABLISHED

Cas: 10043-01-3

RTECS #: BD1700000

Name: ALUMINUM SULFATE

% low Wt: 15.

% high Wt: 20.

Other REC Limits: NOT PROVIDED

OSHA PEL: NOT PROVIDED

ACGIH TLV: 2 MG/M3 AS AL

EPA Rpt Qty: 5000 LBS

DOT Rpt Qty: 5000 LBS

Cas: 7664-93-9

RTECS #: WS5600000

Name: SULFURIC ACID

% low Wt: 10.

% high Wt: 15.

Other REC Limits: NOT PROVIDED

OSHA PEL: 1 MG/M3

ACGIH TLV: 1 MG/M3

ACGIH STEL: 3 MG/M3

EPA Rpt Qty: 1000 LBS

DOT Rpt Qty: 1000 LBS

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Health Hazards Data

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LD50 LC50 Mixture: LD50 (ORAL, RAT) 500-5000 MG/KG

Carcinogenicity Inds - NTP: NO

IARC: NO

OSHA: NO

Effects of Exposure: INHALATION: EXPECTED TO BE A LOW INHALATION HAZARD FOR

RECOMMENDED HANDLING. EYE: CAUSES EYE IRRITATION. SKIN: CAUSES SKIN IRRITATION. INGESTION: MAY BE FATAL OR HARMFUL IF SWALLOWED. MAY CAUSE BURNS

OF THE GASTROINTESTINAL TRACT IF SWALLOWED.

Explanation Of Carcinogenicity: SULFURIC ACID. INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS DETERMINED THAT OCCUPATIONAL EXPOSURE TO STRONG

INORGANIC MISTS OR VAPORS CONTAINING SULFURIC ACID IS CARCINOGENIC TO HUMANS.

THIS PRODUCT IS NOT EXPECTED TO GENERATE MISTS OR VAPORS WHEN PRODUCT INSTRUCTIONS FOR MIXING AND USE ARE FOLLOWED.

Signs And Symptoms Of Overexposure: EYE: CAUSES EYE IRRITATION. SKIN: CAUSES

SKIN IRRITATION. INGESTION: MAY CAUSE BURNS OF THE GASTROINTESTINAL TRACT IF

SWALLOWED.

Medical Cond Aggravated By Exposure: NOT PROVIDED

First Aid: INHALATION: IF SYMPTOMATIC, MOVE TO FRESH AIR. TREAT SYMPTOMATICALLY. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR. EYES: IMMEDIATELY

FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTI ON.

SKIN: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE

REMOVING CONTAMINATED CLOTHING AND SHOES. GET MEDICAL ATTENTION IF SYMPTOMS

OCCUR. WASH CONTAMINATED CLOTHING BEFORE REUS E. DESTROY OR THOROUGHLY CLEAN

CONTAMINATED SHOES. INGESTION: DO NOT INDUCE VOMITING. GIVE VICTIM A GLASS OF

WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL A PHYSICIAN OR POISON CO NTROL CENTER IMMEDIATELY.

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Handling and Disposal

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Spill Release Procedures: ABSORB SPILL WITH VERMICULITE OR OTHER INERT MATERIAL, THEN PLACE IN A CONTAINER FOR CHEMICAL WASTE. CLEAN SURFACE THOROUGHLY TO REMOVE RESIDUAL CONTAMINATION.

Neutralizing Agent: NOT PROVIDED

Waste Disposal Methods: DISCHARGE, TREATMENT, OR DISPOSAL MAY BE SUBJECT TO

NATIONAL, STATE, OR LOCAL LAWS. FLUSH TO SEWER WITH LARGE AMOUNT OF WATER.

SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUE, FOLLOW LABEL WARNINGS EV EN

AFTER CONTAINER IS EMPTIED. CONTRACT WITH A LICENSED CHEMICAL DISPOSAL

AGENCY.

Handling And Storage Precautions: KEEP CONTAINER TIGHTLY CLOSED TO PREVENT THE

LOSS OF WATER. KEEP AWAY FROM INCOMPATIBLE SUBSTANCES (SEE INCOMPATIBILITY SECTION).

Other Precautions: AVOID BREATHING MIST AT CONCENTRATIONS GREATER THAN THE

EXPOSURE LIMITS. AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. USE WITH

ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING.

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Fire and Explosion Hazard Information

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Flash Point Text: 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

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Control Measures

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Respiratory Protection: IF ENGINEERING CONTROLS DO NOT MAINTAIN AIRBORNE

CONCENTRATIONS BELOW RECOMMENDED EXPOSURE LIMITS, AN APPROVED RESPIRATOR MUST

BE WORN. RESPIRATOR TYPE: FULL-FACE CARTRIDGE RESPIRATOR; ACID GAS WITH D

UST/MIST PREFILTER. IF RESPIRATORS ARE USED, A PROGRAM SHOULD BE INSTITUTED

TO ASSURE COMPLIANCE WITH OSHA STANDARD 29 CFR 1910.134.

Ventilation: GOOD GENERAL VENTILATION (TYPICALLY 10 AIR CHANGES PER HOUR)

SHOULD BE USED. VENTILATION RATES SHOULD BE MATCHED TO CONDITIONS.

Protective Gloves: WEAR IMPERVIOUS GLOVES AND PROTECTIVE CLOTHING APPROPRIATE

FOR RISK OF EXPOSURE

Eye Protection: WEAR SAFETY GLASSES WITH SIDE SHIELDS (OR GOGGLES).

Other Protective Equipment: EYE BATH, WASHING FACILITIES, SAFETY SHOWER

Work Hygienic Practices: NOT PROVIDED

Supplemental Safety and Health: SUPPLEMENTARY LOCAL EXHAUST VENTILATION, CLOSED

SYSTEMS, OR RESPIRATORY PROTECTION MAY BE NEEDED IN SPECIAL CIRCUMSTANCES

SUCH AS POORLY VENTILATED SPACES, EVAPORATION FROM LARGE SURFACES,
SPRAYING,
HEATING, ETC.

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Physical/Chemical Properties

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HCC: C1
NRC/State LIC No: NOT RELEVANT
Boiling Point: >100.C, 212.F
M.P/F.P Text: NOT PROVIDED
Decomp Text: NOT PROVIDED
Vapor Pres: 18 @ 68F
Vapor Density: 0.6
Spec Gravity: 1.30
PH: 1.0
Viscosity: NOT PROVIDED
Evaporation Rate & Reference: NOT PROVIDED
Solubility in Water: COMPLETE
Appearance and Odor: COLORLESS LIQUID, SLIGHT SULFUR DIOXIDE ODOR
Percent Volatiles by Volume: 70-75 WT
Corrosion Rate: NOT PROVIDED

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Reactivity Data

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Stability Indicator: YES
Stability Condition To Avoid: NOT PROVIDED
Materials To Avoid: BASES
Hazardous Decomposition Products: SULFUR DIOXIDE
Hazardous Polymerization Indicator: NO
Conditions To Avoid Polymerization: NONE.

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Toxicological Information

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Toxicological Information: CONTAINS: SULFURIC ACID. INTERNATIONAL
AGENCY FOR
RESEARCH ON CANCER (IARC) HAS DETERMINED THAT OCCUPATIONAL
EXPOSURE TO
STRONG INORGANIC MISTS OR VAPORS CONTAINING SULFURIC ACID IS
CARC
INOGENIC TO HUMANS. THIS PRODUCT IS NOT EXPECTED TO GENERATE
MISTS OR
VAPORS WHEN PRODUCT INSTRUCTIONS FOR MIXING AND USE ARE
FOLLOWED.
ORAL LD-50 (RAT): 0.5-5.0 G/KG SKIN IRRITATION: MODERATE
EYE
IRRITATION: SLIGHT SKIN SENSITIZATION: NEGATIVE

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Ecological Information

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MSDS Transport Information

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Transport Information: FOR TRANSPORTATION INFORMATION REGARDING THIS
PRODUCT
CALL THE KODAK WORLDWIDE TRANSPORTATION HAZMAT HOT LINE: (716) 722-
2400

BETWEEN 8 A.M. AND 5 P.M. (EASTERN STANDARD TIME), MONDAY THROUGH FRIDAY .

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Regulatory Information

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Sara Title III Information: CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS

OF SECTION 313 OR TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION

ACT (SARA) OF 1986 AND 40 CFR PART 372: AMMONIUM THIOSULFATE, AS A SOURCE

OF AQUEOUS AMMONIA.

Federal Regulatory Information: NOT PROVIDED

State Regulatory Information: MATERIAL(S) KNOWN TO THE STATE OF CALIFORNIA TO

CAUSE CANCER: NONE MATERIAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE

ADVERSE REPRODUCTIVE EFFECTS: NONE

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Other Information

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Other Information: CONTAINS: SULFURIC ACID (007664-93-9); ALUMINUM SULFATE

(010043-01-3) DANGER! POISON MAY BE FATAL OR HARMFUL IF SWALLOWED

CAUSES SKIN AND EYE IRRITATION. ABBREVIATION: N/A = NOT APPLICABLE. N/AV

= NOT AVAILABLE. N/K = UNKNOWN. N/P = NOT PROVIDED. N/R = NOT RELEVANT. N/D =

NOT DETERMINED. N/E = NOT ESTABLISHED.

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Transportation Information

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Responsible Party Code: 19139

Trans ID NO: 157076

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

MSDS Prepared Date: 02/08/2001

Review Date: 05/23/2001

MFN: 1

Tech Entry NOS Shipping Nm: SULFURIC ACID, ALUMINUM SULFATE

Net Unit Weight: 1.5 LBS

Multiple KIT Number: 0

Kit Part IND: Y

Unit Of Issue: PG

Container QTY: 4

Additional Data: PROPER SHIPPING NAME, UN ID NUMBER, HAZARD CLASS, PACKING

GROUP, UPS IND = NO, LTD QTY, AND THE VOLUME (1.124 PTS) PER KODAK TRANSPORTATION HAZARDOUS OPERATIONS RESOURCE LIST. PACKAGE MAY NOT BE

SUITABLE FOR AIR SHIPMENT.

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Detail DOT Information

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DOT PSN Code: DWF

Symbols: G

DOT Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

Hazard Class: 8
UN ID Num: UN3264
DOT Packaging Group: III
Label: CORROSIVE
Special Provision: T7
Packaging Exception: 154
Non Bulk Pack: 203
Bulk Pack: 241
Max Qty Pass: 5 L
Max Qty Cargo: 60 L
Vessel Stow Req: A
Water/Ship/Other Req: 40

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Detail IMO Information

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IMO PSN Code: ESE
IMO Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. o
IMDG Page Number: 8147-1
UN Number: 3264
UN Hazard Class: 8
IMO Packaging Group: I/II/III
Subsidiary Risk Label: -
EMS Number: 8-15
MED First Aid Guide NUM: 760

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Detail IATA Information

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IATA PSN Code: HLF
IATA UN ID Num: 3264
IATA Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
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IATA UN Class: 8
IATA Label: CORROSIVE
UN Packing Group: III
Packing Note Passenger: 818
Max Quant Pass: 5L
Max Quant Cargo: 60L
Packaging Note Cargo: 820

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Detail AFI Information

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AFI PSN Code: HKA
AFI Symbols: *
AFI Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
AFI Hazard Class: 8
AFI UN ID NUM: UN3264
AFI Packing Group: III
Special Provisions: P5
Back Pack Reference: A12.3

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HAZCOM Label

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Product ID: 146 4114, PT B, KODAK RAPID FIXER
Cage: 19139
Company Name: EASTMAN KODAK CO GOVERNMENT MARKETS CONTRACTS
Street: 343 STATE ST
City: ROCHESTER NY

Zipcode: 14650-1115
Health Emergency Phone: 716-722-5151
Label Required IND: Y
Date Of Label Review: 05/23/2001
Status Code: A
MFG Label NO: NOT PROVIDED
Origination Code: F
Eye Protection IND: YES
Skin Protection IND: YES
Signal Word: WARNING
Respiratory Protection IND: NO
Health Hazard: Moderate
Contact Hazard: Moderate
Fire Hazard: None
Reactivity Hazard: None
Hazard And Precautions: TARGET ORGANS: NOT PROVIDED. DANGER! POISON.
MAY BE
FATAL/HARMFUL IF SWALLOWED. CAUSES SKIN/EYE IRRITATION. IF SWALLOWED,
DO NOT
INDUCE VOMITING. CALL DOCTOR. IN CASE OF CONTACT, IMMEDIATELY FLUSH
WIT H
WATER. KEEP OUT OF REACH OF CHILDREN. READ MSDS.

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Department
of Defense or other government situation.