

EASTMAN KODAK COMPANY -- 180 5332 RP X-OMAT FIXER & REPLENISHER, PART B --  
6525-01-075-8325

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

Product ID:180 5332 RP X-OMAT FIXER & REPLENISHER, PART B

MSDS Date:11/29/1995

FSC:6525

NIIN:01-075-8325

Kit Part:Y

MSDS Number: BWRCP

=== Responsible Party ===

Company Name:EASTMAN KODAK COMPANY

Address:343 STATE STREET

City:ROCHESTER

State:NY

ZIP:14650

Country:US

Info Ph

one Num:716-477-3194 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

Company Name:EASTMAN KODAK CO US CUSTOMER SERVICE/GOVERNMENT SALES

Address:800 LEE RD

Box:City:ROCHESTER

State:NY

ZIP:14650-3129

Country:US

Phone:800-828-6203

CAGE:5K871

===== Composition/Info

Information on Ingredients =====

Ingredient Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Fraction by Wt: 60-65%  
Other REC Limits:NONE RECOMMENDED

Ingredient Name:ACETIC ACID (CERCLA)  
CAS:64-19-7  
RTECS #:AF1225000  
Fraction by Wt: 15-20%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:10 PPM  
ACGIH TLV:10 PPM/15 STEL; 9596  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingredient Name:ALUMINUM SULFATE  
CAS:10043-01-3  
RTECS #:BD1700000  
Fraction by Wt: 15-20%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:2 MG/M3  
ACGIH TLV:2 MG/M3; 9596  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingredient Name:D-GLUCONIC ACID  
CAS:526-95-4  
RTECS #:LZ5057100  
Fraction by Wt: 1-5%  
Other REC Limits:NONE RECOMMENDED

Ingredient Name:SODIUM ACETATE  
CAS:127-09-3  
RTECS #:AJ4300010  
Fraction by Wt: 1-5%  
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO

IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:INHAL:VAPOR IRRITATING. EYE:CAUSES  
BURNS.VAPOR IRRITATING. SKIN:CAUSES IRRITATION. INGEST:HARMFUL IF  
SWALLOWED.MAY CAUSE BURNS OF GASTROINTESTINAL TRACT IF SWALLOWED.  
Explanation of Carcinogenicity:PER MSDS:CARCINOGENICITY  
CLASSIFICATION:IARC/ACGIH/NTP/OSHA:NONE.  
Effects of Overexposure:VAPOR IRRIT,BURNS/IRRIT EYES,SKIN IRRIT,  
HARMFUL IF SWALLOWED,BURNS GASTROINTESTINAL TRACT.  
Medical Cond Aggravated by Exposure:NONE SPECIFIED B  
Y MANUFACTURER.

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

First Aid:INHAL:MOVE TO FRESH AIR.TREAT SYMPTOMATIC.GET MED ATTN IF  
SYMPTONS PERSIST. EYES:IMMED FLUSH W/PLENTY OF WATER FOR @LEAST  
15MINS.GET MED ATTN IMMED. SKIN:IMMED REMOVE CONTAMIN  
CLOTH/SHOES.WASH W/SOAP/ PLENTY OF WATER.GET MED ATTN IF  
SYMPTOMS OCCUR. INGEST:DO NOT INDUCE VOMIT.GIVE VICTIM A GLASS OF  
WATER.NEVER GIVE ANYTHING BY MOUTH TO UNCONSC PERSON.CALL  
PHYSICIAN/POISON CONTRO  
L CENTER IMMED.

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

Flash Point:NONE,NON-COMBUST  
Autoignition Temp:Autoignition Temp Text:NP  
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 Re  
lease Procedures:FLUSH TO SEWER W/LG AMTS OF  
WATER.OTHERWISE,ABSORB W/VERMI/OTHER INERT MATL,THEN PLACE IN CNTNR  
FOR CHEM WASTE.CLEAN THOROUGHLY TO REMOVE RESIDUAL  
CONTAMIN.LG:ABSORB W/VERMI/OTHER INERT MATL,THEN PLAC E IN CNTNR  
FOR CHEM WASTE.PREVENT RUNOFF(SUPPLEM)  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:DON'T GET IN EYES.AVOID SKIN/CLOTH  
CONTACT.AVOID BREATH VA

P.USE W/ADEQU VENT.KEEP CNTNR CLSD.KEEP AWAY  
FROM INCOMPATIBLE SUBSTANCES.

Other Precautions:STRONGLY ACIDIC AQU SOLN.PROPERTIES:HI BIOCHEM OXY  
DEMAND,MAY CAUSE OXY DEPLETION IN AQU SYS.LOW POT TO AFFECT AQU  
ORGANISMS/2ND WASTE TREATMENT MICROBIAL METABOLISM;HI POT TO AFFECT  
GERM &/OR EARLY G ROWTH OF SOME PLANTS;LOW POT TO (SUPPLE)

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

Respiratory Protection:IF ENGINEERING CONTROLS DO NOT MAINTAIN AIRBORNE  
CON

CEN BELOW RECOMMENDED EXPO LIMITS APPROVED RESP MUST BE  
WORN.RESP TYPE:ORGANIC VAP.IF RESP ARE USED PROGRAM SHOULD BE  
INSTITUTED TO ASSURE COMPLIANC E WITH OSHA STD 29CFR1910.134.

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:SAF GLASS W/SIDESHIELD,GOGG,FACE SHIELD.

Other Protective Equipment:PROTECTIVE CLOTHING APPROPRIATE FOR RISK OF  
EXPOSUR

E. EYEBATH, WASHING FACILITIES, SAFETY SHOWER.

Work Hygienic Practices:WASH THOROUGHLY AFT HNDLG.

Supplemental Safety and Health

SPILL:ENTERING DRAIN/SEWERS/STREAMS.FLUSH SPILL AREA W/WATERSPRAY.

OTHER PRECAUT:BIOCONCE.AFT DIL W/LG AMT OF WATER/2ND WASTE  
TREAT,MATL NOT EXPECTED TO CAUSE ADVERSE ENVIRO EFFECTS. KEY1=C1,  
PNIND:E( PART A),W(WORK SOLN), TO MAKE 10 GALLONS.

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

HCC:C2

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

Melt/

Freeze Pt:M.P/F.P Text:NP

Decomp Temp:Decomp Text:NP

Vapor Pres:18 @20C

Vapor Density:0.6

Spec Gravity:1.16

pH:2.0

Viscosity:NP

Evaporation Rate & Reference:NP

Solubility in Water:COMPLETE.

Appearance and Odor:LIQUID, COLORLESS, VINEGAR ODOR.

Percent Volatiles by Volume:85

Corrosion Rate:NP

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

Stability Indicator/Materials to Avoid:YES  
BASES.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition

Products:CARBON DIOXIDE, CARBON MONOXIDE,  
SULFUR DIOXIDE. HAZ COMBUST PROD:NONE (NON-COMBUSTIBLE).

===== Disposal Considerations =====

Waste Disposal Methods:DISCHARGE/TREATMENT/DISPOSAL MAY BE SUBJECT TO  
NATIONAL/STATE/LOCAL LAWS. FLUSH TO SEWER W/LG AMTS OF WATER. FOR  
LG AMTS CONTRACT W/LICESNED CHEM DISPO AGENCY. CHEM(S) SUBJ TO  
REPORTING REQMTS OF SEC 313 TITLE III SARA/40CFR372:NONE.

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