

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 BY 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 CONTROL 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 PLACE 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.

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, warrants 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.