

EASTMAN KODAK COMPANY -- 180 5134 RP X-OMAT FIXER & REPLENISHER, PART A --  
6525-01-076-8677

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

Product ID:180 5134 RP X-OMAT FIXER & REPLENISHER, PART A

MSDS Date:08/02/1995

FSC:6525

NIIN:01-076-8677

MSDS Number: CDQMW

=== Responsible Party ===

Company Name:EASTMAN KODAK COMPANY

Address:343 STATE STREET

City:ROCHESTER

State:NY

ZIP:14650

Country:US

Info Phone 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/Information on

Ingredients =====

Ingred Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Fraction by Wt: 40-45%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:AMMONIUM THIOSULFATE  
CAS:7783-18-8  
RTECS #:XN6465000  
Fraction by Wt: 35-40%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:SODIUM THIOSULFATE  
CAS:7772-98-7  
RTECS #:XN6476000  
Fraction by Wt: 10-15%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:AMMONIUM BISULFITE (CERCLA)  
CAS:10192-30-0  
RTECS #:WT3595000  
Fraction by Wt: 1-5%  
Other REC Limits:NONE RECOMMENDED  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:AMMONIUM ACETATE (CERCLA)  
CAS:631-61-8  
RTECS #:AF3675000  
Fraction by Wt: 1-5%  
Other REC Limits:NONE RECOMMENDED  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:SODIUM BISULFITE (SASA III) (CERCLA)  
CAS:7631-90-5  
RTECS #:VZ2000000  
Fraction by Wt: 1-5%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:5 MG/M3  
ACGIH TLV:5 MG/M3; 9596  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

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

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LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:NO Skin:YES 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. EYES:NO SPECIFIC HAZARD KNOWN.MAY CAUSE  
TRANSIENT IRRITATION. SKIN:LOW HAZARD FOR RECOMMENDED HANDLING.  
INGEST:EXPECTED TO BE LOW INGESTION HAZRD.  
Explanation of Carcinogenicity:PER MSDS:CARCINOGENICITY  
CLASSIFICATION:IARC/A  
CGIH/NTP/OSHA:NONE.  
Effects of Overexposure:TRANSIENT EYE IRRITATION.  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:INHAL:IF SYMPTOMATIC MOVE TO FRESH AIR. GET MED ATTN IF  
SYMPTONS PERSIST. EYES:ANY MATL THAT CONTACTS EYE SHOULD BE WASHED  
OUT IMMED W/WATER. GET MED ATTN IF SYMPTOMS OCCUR. SKIN:WASH W/SOAP  
& WATER. GET MED ATTN IF SYMPTOMS OCCUR. INGEST:DRINK 1-2 GLASSES  
OF WATE  
R. SEEK MED ATTN.

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

Flash Point:NONE  
Autoignition Temp:Autoignition Temp Text:NP  
Extinguishing Media:WATER SPRAY, CARBON DIOXIDE (CO2), DRY CHEMICAL,  
ALCOHOL FOAM.  
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS &  
PROTECTIVE CLOTHING. FIRE OR EXCESSIVE HEAT MAY PRODUCE HAZARDOUS  
DECOMPOSITION PRODUCTS.  
Unusual Fire/Explosion Hazard:DRIED PRODUCT RESIDUE CAN ACT AS A  
REDUCING AGENT.

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===== Accidental Release Measures =====

Spill Release Procedures:FLUSH TO SEWER W/LG AMTS OF WATER.  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:USE W/ADEQUATE VENTI.KEEP FROM CONTACT  
W/OXIDIZING MATLS.KEEP CNTNR TIGHTLY CLOSED.KEEP AWAY FROM  
INCOMPATIBLE SUBSTANCES.  
Other Precautions:PROPERTIES:MOD BIOCHEM OXY DEMAND,MAY CAUSE OXY  
DEPLETION IN AQU SYS.LOW POT

TO AFFECT AQU ORGANISMS/2ND WASTE  
TREATMENT MICROBIAL METABOLISM/GERM &/OR EARLY GROWTH OF SOME  
PLANTS/PERSIST IN ENVIRO/BI OCONCEN.AFT DILUTION W/LG AMTS OF  
(SUPP)

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

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, GOGGLES.  
Other Protective Equipment:EYEBATH, WASHING FACILITIES, SAFETY SHOWER.  
Work Hygienic Practices:WASH THOROUGHLY AFT HNDLG.GOOD INDUSTRIAL HYG  
PRAC TO MIN EYE/SKIN CONTACT.  
Supplemental Safety and Health  
OTHER PRECAUT:WATER/2ND WASTE TREAT MATL NOT EXPECTED TO CAUSE ADVERSE  
ENVIRO EFFECTS. TO MAKE 200 GALLONS.

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

HCC:N1  
Boiling Pt:B.P. Text:>212F,>100C  
Melt/Freeze Pt:M.P/F.P Text:NP  
Decomp Temp:Decom  
p Text:NP  
Vapor Pres:18 @20C  
Vapor Density:0.6  
Spec Gravity:1.361  
pH:4.1  
Viscosity:NP  
Evaporation Rate & Reference:NP  
Solubility in Water:COMPLETE.  
Appearance and Odor:LIQUID, COLORLESS, SLIGHT AMMONIA ODOR.  
Percent Volatiles by Volume:45  
Corrosion Rate:NP

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

Stability Indicator/Materials to Avoid:YES  
STRONG OXIDIZING AGENTS, STRONG ACIDS, BAES, SODIUM HYPOCHLORITE  
(BLEACH).CONTACT W/BASE LIBERATES FLAMMABLE MATL.  
Stabili

ty Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.  
Hazardous Decomposition Products:AMMONIA, CHLORAMINE. HAZ COMBUST  
PROD:CO<sub>2</sub>,CO,OXIDES OF NITROGEN,OXIDES OF SULFUR.

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

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

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