

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:71

6-477-3194 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/

ACGIH/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 WAT ER. 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 PO

T 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:Deco
mp 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.
Stabil

ity Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:AMMONIA, CHLORAMINE. HAZ COMBUST
PROD:CO2,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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