

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

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

MSDS Date:11/14/1991

FSC:6525

NIIN:01-076-8677

Kit Part:Y

MSDS Number: BGKQT

=== Responsible Party ===

Company Name:EASTMAN KODAK COMPANY

Address:343 STATE STREET

City:ROCHESTER

State:NY

ZIP:14650

Country:US

Info Phone Num:716-722-5151

Emergency Phone Num:716-722-5151

CAGE:19139

=== Contrac

tor 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

===== Composition/Information on Ingredients =====

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Fraction by Wt: 40-45%

Other REC Limits:NONE SPECIFIED

Ingred Name:AMMONIUM THIOSULFATE

CAS:7783-18-8

RTECS #:XN6465000

Fraction by Wt: 35-40%

Other REC Limits:NONE SPECIFIED

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

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

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

Ingred Name:SODIUM BISULFITE (SASA III)
CAS
:7631-90-5
RTECS #:VZ2000000
Fraction by Wt: 1-5%
Other REC Limits:NONE SPECIFIED
OSHA PEL:5 MG/M3
ACGIH TLV:5 MG/M3; 9192
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:SODIUM ACETATE
CAS:126-96-5
RTECS #:AJ4375000
Fraction by Wt: 1-5%
Other REC Limits:NONE SPECIFIED

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

LD50 LC50 Mixture:LD50 (ORAL RAT) IS NOT ESTABLISHED.
Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO

OSHA:NO

Health Hazards Acute and Chronic:MANUFACTURER STATES THAT THIS MATERIAL IS EXPECTED TO BE A LOW HAZARD BY INHALATION, EYE AND SKIN CONTACT, AND INGESTION. MAY CAUSE IRRITATION OF EYES.

Explanation of Carcinogenicity:NONE OF THE COMPOUNDS IN THIS PRODUCT IS LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.

Effects of Overexposure:SLIGHT IRRITATION AND REDNESS OF EYES.

Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF AILMENTS OR WITH A PRE-EXISTING DISEASE INVOLVING THE SKIN MAY BE AT INCREASED RISK FROM EXPOSURE.

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

First Aid:EYES:IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES HOLDING EYELIDS OPEN. GET IMMEDIATE MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING AND SHOES. WASH SKIN WITH SOAP AND WATER. GET MEDICAL ATTENTION. INGESTION:DRINK 1-2 GLASSES OF WATER. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. CALL A PHYSICIAN AT ONCE.

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

Flash Point:NONE

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL AS APPROPRIATE FOR SURROUNDINGS.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS.

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

Spill Release Procedures:REMOVE RESIDUE WITH LARGE AMOUNTS OF WATER BY FLUSHING TO THE SEWER. DISCHARGE MAY BE GOVERNED BY LOCAL LAW.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE AND AWAY FROM STRONG ACIDS, BASES OR OXIDIZING AGENTS.

Other Precautions:AVOID CONTACT WITH EYES. WASH THOROUGHLY A

FTER
HANDLING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

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

Respiratory Protection:AN APPROPRIATE NIOSH-APPROVED RESPIRATOR FOR ORGANIC VAPOR SHOULD BE WORN IF MIST IS CREATED.
Ventilation:MECHANICAL (GENERAL) ROOM VENTILATION IS NORMALLY ADEQUATE.
Protective Gloves:NEOPRENE OR NATURAL RUBBER
Eye Protection:SAFETY GLASSES
Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER.
INDUSTRIAL-TYPE WORK CLOTHING AND APRON AS REQUIRED.
Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.
Supplemental Safety and Health
THIS IS PART A OF TWO PART KIT. PART #180 5134 IS FOR MAKING 200 GALLONS OF SOLUTION. EACH UNIT PACKAGE CONTAINS 50 GAL.

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

HCC:C3
Boiling Pt:B.P. Text:>212F,>100C
Vapor Pres:18 @20C
Vapor Density:0.6
Spec Gravity:1.361
pH:4.10
Solubility in Water:COMPLETE
Appearance and Odor:COLORLESS SOLUTION; SLIGHT AMMONIA ODOR
Percent Volatiles by Volume:45

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

Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZING AGENTS, STRONG ACIDS, STRONG BASES
Stability Condition to Avoid:STRONGLY ACID OR BASIC
Hazardous Decomposition Products:CARBON DIOXIDE AND PROBABLY CARBON MONOXIDE AS WELL AS AMMONIA AND OXIDES OF SULFUR AND NITROGEN.

===== Disposal =====

al Considerations =====

Waste Disposal Methods:DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL
APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

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