

EASTMAN KODAK CO GOVERNMENT MARKETS CONTRACTS -- 124 9259,WKG SOL,KODAK RP
X-OMAT DEVELOPER REPLENISHER -- 6525-01-199-1985

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

Product ID:124 9259,WKG SOL,KODAK RP X-OMAT DEVELOPER REPLENISHER

MSDS Date:03/21/2001

FSC:6525

NIIN:01-199-1985

Status Code:A

MSDS Number: CLHBP

=== Responsible Party ===

Company Name:EASTMAN KODAK CO GOVERNMENT MARKETS CONTRACTS

Address:34

3 STATE ST

City:ROCHESTER

State:NY

ZIP:14650-1115

Country:US

Info Phone Num:716-722-5151/(800) 242-2424

Emergency Phone Num:716 722-5151

Preparer's Name:NOT PROVIDED

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

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

Ingred Name:WATER

CAS:7732-18-5

RTECS #

:ZC0110000

Minumum % Wt:85.

Maxumum % Wt:90.

Other REC Limits:NOT PROVIDED

Code:F

Code:F

Ingred Name:POTASSIUM SULFITE

CAS:10117-38-1

Minumum % Wt:5.

Maxumum % Wt:10.

Other REC Limits:NOT PROVIDED

OSHA PEL:NOT PROVIDED

ACGIH TLV:NOT PROVIDED

Ingred Name:HYDROQUINONE

CAS:123-31-9

RTECS #:MX3500000

= Wt:3.

Other REC Limits:NOT PROVIDED

Other REC Limits:NOT PROVIDED
OSHA PEL:NOT PROVIDED
ACGIH TLV:NOT PROVIDED

Ingred Name:GLUTARALDEHYDE BIS(POTASSIUM BISULFITE)
CAS:68310-08-7
Minumum % Wt:1.
Maxumum % Wt:5.

Other REC Limits:NOT PROVIDED
OSHA PEL:NOT PROVIDED
ACGIH TLV:NOT PROVIDED

Ingred Name:GLUTARALDEHYDE
CAS:111-30-8
RTECS #:MA2450000
< Wt:1.
Other REC Limits:NOT PROVIDED
OSHA PEL:NOT PROVIDED
ACGIH STEL:C0.82 MG/M3;C0.2 PPM

Ingred Name:SODIUM SULFITE
CAS:7757-83-7
RTECS #:WE2150000
< Wt:1.
Other REC Limits:NOT PROV
IDED
OSHA PEL:NOT PROVIDED
ACGIH TLV:NOT PROVIDED

Ingred Name:1-PHENYL-3-PYRAZOLIDINONE
CAS:92-43-3
RTECS #:UQ8750000
< Wt:1.
Other REC Limits:NOT PROVIDED
OSHA PEL:NOT PROVIDED
ACGIH TLV:NOT PROVIDED

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

LD50 LC50 Mixture:NOT PROVIDED
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:INHALATION: EXPECTED TO BE A LOW
HAZARD FOR USUAL INDUSTRIAL OR COMMERCIAL HANDLING BY TRAINED
PERS

ONNEL. IN CONTACT WITH STRONG ACIDS OR IF HEATED, SULFITES MAY LIBERATE SULFUR DIOXIDE GAS. SULFUR DIOXIDE GAS IS IRRITATING TO THE RESPIRATORY TRACT. SOME ASTHMATICS OR HYPERSENSITIVE INDIVIDUALS MAY EXPERIENCE DIFFICULT BREATHING. EYES: CAUSES IRRITATION. SKIN: MAY CAUSE ALLERGIC SKIN REACTION BASED ON HUMAN EXPERIENCE. MAY CAUSE SKIN DEPIGMENTATION. PROLONGED OR REPEATED CONTACT WITH AQUEOUS SOLUTIONS MAY CAUSE IRRITATION. INGESTION: HARMFUL IF SWALLOWED. MAY CAUSE IRRITATION OF THE GASTROINTESTINAL TRACT.

Explanation of Carcinogenicity:INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC): HYDROQUINONE- NOT CLASSIFIABLE, GROUP 3 AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH): HYDROQUINONE,A3; ANIMAL CARCINOGEN, UNKNOWN RELEVANCE TO HUMANS. GLUTARALDEHYDE, A4; NOT CLASSIFIABLE HUMAN CARCINOGEN. NATL TOXICOLOGY PROGRAM (NTP): NONE. OCCUPATION SAFETY HEALTH ADMIN (OSHA): NONE

Effects of Overexposure:INHALATION:

IN CONTACT WITH STRONG ACIDS OR IF HEATED, SULFITES MAY LIBERATE SULFUR DIOXIDE GAS. SULFUR DIOXIDE GAS IS IRRITATING TO THE RESPIRATORY TRACT. EYES: CAUSES IRRITATION. SKIN: MAY CAUSE ALLERGIC SKIN REACTION. MAY CAUSE SKIN DEPIGMENTATION. PROLONGED OR REPEATED CONTACT WITH AQUEOUS SOLUTIONS MAY CAUSE IRRITATION. INGESTION: MAY CAUSE IRRITATION OF THE GASTROINTESTINAL TRACT.

Medical Cond Aggravated by Exposure:SOME ASTHMATICS, HYPERSENSITIVE OR SULFITE-SENSITIVE INDIVIDUALS MAY EXPERIENCE DIFFICULT BREATHING,

WHEEZING, CHEST TIGHTNESS, STOMACH UPSET, HIVES, FAINTNESS, WEAKNESS AND DIARRHEA.

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

First Aid:INHALATION: MOVE TO FRESH AIR. TREAT SYMPTOMATICALLY. GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION. SKIN: IMMEDIATELY FLUSH WITH PLENTY OF WATER AND WASH WITH A NON-ALKALINE (ACID) TYPE OF SKIN CLEANER. REMOVE CONTAMINATED CLOTHING. IF SKIN IRRITATION/AN ALLERGIC SKIN REACTION DEVELOPS, GET MEDICAL ATTENTION. INGESTION: ONLY INDUCE VOMITING AT THE INSTRUCTION OF MEDICAL PERSONNEL. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

ALINE (ACID) TYPE OF SKIN CLEANER. REMOVE CONTAMINATED CLOTHING. IF SKIN IRRITATION/AN ALLERGIC SKIN REACTION DEVELOPS, GET MEDICAL ATTENTION. INGESTION: ONLY INDUCE VOMITING AT THE INSTRUCTION OF MEDICAL PERSONNEL. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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

Flash Point:NONCOMBUSTIBLE

Extinguishing Media:USE APPROPRIATE AGENT FOR ADJACENT

FIRE.

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. FIRE OR EXCESSIVE HEAT MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS.

Unusual Fire/Explosion Hazard:NONE

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

Spill Release Procedures:FLUSH TO SEWER WITH LARGE AMOUNT OF WATER. OTHERWISE, ABSORB SPILL WITH VERMICULITE OR OTHER INERT MATERIAL, THEN PLACE IN A CONTAINER FOR CHEMICAL WASTE. CLEAN SURFACE THOROUGHLY TO REMOVE RESIDUAL CONTAMINATION.

Neutralizing Agent:NOT PROVIDED

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

Handling and Storage Precautions:KEEP CONTAINER CLOSED. KEEP AWAY FROM INCOMPATIBLE SUBSTANCES. NO SPECIAL PRECAUTIONARY MEASURES SHOULD BE NEEDED UNDER ANTICIPATED CONDITIONS OF USE.

Other Precautions:AVOID PROLONGED OR REPEATED BREATHING OF MIST OR VAPOR. AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. ROUTINE USE

OF A NONALKALINE (ACID) TYPE OF HAND CLEANER AND REGULAR CLEANING OF WORKING SURFACES, GLOVES, ETC. WILL MINIMIZE POSSIBILITY OF A SKIN REACTION

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

Respiratory Protection:NONE SHOULD BE NEEDED. A RESPIRATOR SHOULD BE WORN IF HAZARDOUS DECOMPOSITION PRODUCTS ARE LIKELY TO BE OR HAVE BEEN RELEASED. RESPIRATOR TYPE: ACID GAS. SEE STABILITY AND REACTIVITY SECTION. IF RESPIRATORS ARE USED, A PROGRAM SHOULD BE

INSTITUTED TO ASSURE COMPLIANCE WITH OSHA STANDARD 29 CFR 1910.134.

Ventilation:GOOD GENERAL VENTILATION (TYPICALLY 10 AIR CHANGES PER HOUR) SHOULD BE USED. VENTILATION RATES SHOULD BE MATCHED TO CONDITIONS.

Protective Gloves:WEAR IMPERVIOUS GLOVES AND PROTECTIVE CLOTHING APPROPRIATE FOR RISK OF EXPOSURE

Eye Protection:WEAR SAFETY GLASSES WITH SIDE SHIELDS (OR GOGGLES).

Other Protective Equipment:EYE BATH, WASHING FACILITIES, SAFETY SHOWER

Work Hygiene

ic Practices:NOT PROVIDED

Supplemental Safety and Health

THIS NSN REPLACES NSN 6525-01-196-1724. ABBREVIATION: N/A = NOT APPLICABLE. N/AV = NOT AVAILABLE. N/K = UNKNOWN. N/P = NOT PROVIDED. N/R = NOT RELEVANT. N/D = NOT DETERMINED. N/E = NOT ESTABLISHED.

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

HCC:B3

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:>100.C, 212.F

Melt/Freeze Pt:M.P/F.P Text:NOT PROVIDED

Decomp Temp:Decomp Text:NOT PROVIDED

Vapor Pres:68F: 24 MB

AR (18 MM HG)

Vapor Density:0.6

Spec Gravity:1.082

pH:10.3

Viscosity:NOT PROVIDED

Evaporation Rate & Reference:NOT PROVIDED

Solubility in Water:COMPLETE

Appearance and Odor:YELLOW LIQUID. ODOR: SLIGHT.

Percent Volatiles by Volume:85-90 WT

Corrosion Rate:NOT PROVIDED

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

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS

Stability Condition to Avoid:NOT PROVIDED

Hazardous Decomposition Products:CARBON DIOXIDE, CARBON MONOXIDE,

SULFUR DIOXIDE

===== Toxicological Information =====

Toxicological Information:IN F-344 RATS, CHRONIC ORAL ADMINISTRATION OF HYDROQUINONE HAS RESULTED IN THE FORMATION OF BENIGN KIDNEY TUMORS THOUGHT TO BE SECONDARY TO NEPHROPATHY. HYDROQUINONE-INDUCED NEPHROPATHY FOLLOWING ORAL ADMINISTRATION HAS BEEN NOTED IN THE MALE F-344 RAT, BUT NOT IN OTHER SPECIES OR RAT STRAINS TESTED. ALTHOUGH AN INCREASE IN MONONUCLEAR CELL LEUKEMIA IN F-344

FEMALE RATS HAS BEEN REPORTED FOLLOWING CHRONIC ORAL ADMINISTRATION OF HYDROQUINONE, THIS FINDING WAS NOT REPRODUCED IN A SUBSEQUENT STUDY.

===== Ecological Information =====

Ecological:THE FOLLOWING PROPERTIES ARE ESTIMATED FROM THE COMPONENTS OF THE PREPARATIONS. POTENTIAL TOXICITY: FISH LC50 MG/L: 1-10. DAPHNID EC50 MG/L: 1-10. ALGAL IC50 MG/L: 10-100. ORGANICS READILY DEGRADABLE (>70%): YES (7 DAYS). POTENTIAL BIOACCUMULATION: LOG POW 100.

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

Waste Disposal Methods:DISCHARGE, TREATMENT, OR DISPOSAL MAY BE SUBJECT TO NATIONAL, STATE, OR LOCAL LAWS. FLUSH TO SEWER WITH LARGE AMOUNT OF WATER. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUE, FOLLOW LABEL WARNINGS EVEN AFTER CONTAINER IS EMPTIED.

===== MSDS Transport Information =====

Transport Information:FOR TRANSPORTATION INFORMATION REGARDING THIS PRODUCT CALL THE KODAK WORLDWIDE TRANSPORTATION HAZMAT HOT LINE: (716) 722-2400 BETWEEN 8 A.M. AND 5 P.M. (EASTERN STANDARD TIME), MONDAY THROUGH FRIDAY.

===== Regulatory Information =====

SARA Title III Information:CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OR TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) OF 1986 AND 40 CFR PART 372: HYDROQUINONE

Federal Regulatory Information:NOT PROVIDED

State Regulatory Information:MATERIAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER: NONE - MATERIAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE ADVERSE REPRODUCTIVE EFFECTS: NONE

===== Other Information =====

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.