

EASTMAN KODAK COMPANY -- 818 5100, WKG SOL, KODAK INDUSTREX DEVELOPER  
REPLENISHER -- 6750-01-365-5292

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

Product ID:818 5100, WKG SOL, KODAK INDUSTREX DEVELOPER REPLENISHER

MSDS Date:04/08/2001

FSC:6750

NIIN:01-365-5292

Status Code:A

MSDS Number: CLLBL

=== Responsible Party ===

Company Name:EASTMAN KODAK COMPANY

Address:343 STATE STREET

City:ROCHESTER

State:NY

ZIP:1

4650

Country:US

Info Phone Num:716-477-3194 MSDS :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  
RTECS #:WT3530000  
Minumum % Wt:1.  
Maxumum % Wt:5.  
Other REC Limits:NOT PROVIDED  
OSHA PEL:NOT PROVIDED  
ACGIH TLV:NOT PROVIDED

Ingred Name:HYDROQUINONE  
CAS:123-31-9  
RTECS #:MX3500000  
= Wt:2.  
Other REC Limits:NOT PROVIDED  
OSHA PEL:2 MG/M3  
ACGIH TLV:2 MG/M3  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:POTASSIUM ACETATE  
CAS:127-08-2  
RTECS #:AJ3325000  
Minumum % Wt:1.  
Maxumum % Wt:5.  
Other REC Limits:NOT P  
ROVIDED  
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:1-PHENYL-3-PYRAZOLIDINONE  
CAS:92-43-3  
RTECS #:UQ8750000  
&lt; Wt:1.  
Other REC Limits:NOT PROVIDED  
OSHA PEL:NOT PROVIDED  
ACGIH TLV:NOT PROVIDED

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

LD50 LC50 Mixture:NOT PROVIDED  
Reports of Carc

inogenicity: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 PERSONNEL. IN CONTACT WITH STRONG ACIDS OR IF HEATED, SULFITES MAY LIBERATE SULFUR DIOXIDE GAS. SULFUR DIOXIDE GAS IS IRRITATING TO RESPIRATORY TRACT. SOME ASTHMATICS OR HYPERSENSITIVE INDIVIDUALS MAY EXPERIENCE DIFFICULT BREATHING. EYES: CAUSES IRRITATION. SKIN: MAY CAUSE ALLERGIC SKIN REACTION BASED ON HUMAN EXPERIENCE.

PROLONGED OR REPEATED CONTACT WITH AQUEOUS SOLUTIONS CAUSE IRRITATION. MAY CAUSE SKIN DEPIGMENTATION. INGESTION: HARMFUL IF SWALLOWED. MAY CAUSE IRRITATION OF GASTROINTESTINAL TRACT.

Explanation of Carcinogenicity:INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC): HYDROQUINONE, GROUP 3; NOT CLASSIFIABLE. - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH): GLUTARALDEHYDE, A4; NOT CLASSIFIABLE AS A HUMAN CARCINOGEN. HYDROQUINONE, A3

; CONFIRMED ANIMAL CARCINOGEN WITH UNKNOWN RELEVANCE TO HUMANS. - NATIONAL TOXICOLOGY PROGRAM (NTP): NONE, 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 RESPIRATORY TRACT. EYES: CAUSES IRRITATION. SKIN: PROLONGED OR REPEATED CONTACT WITH AQUEOUS SOLUTIONS CAUSE IRRITATION. MAY CAUSE SKIN DEPIGMENTATION. INGESTION: MAY CAUSE IRRITATION OF 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: IF SYMPTOMATIC, MOVE TO FRESH AIR. TREAT SYMPTOMATICALLY. GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. EYES: IMMEDIATELY FLUSH WITH WATER FOR 15 MINS. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR. SKIN: IMMEDIATELY FLUSH WITH WATER FOR 15 MINS WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. IF SKIN IRRITATION OR ALLERGIC SKIN REACTION DEVELOPS, GET MEDICAL ATTENTION. WASH CONTAMINATED CLOTHING BEFORE REUSE. DESTROY OR THOROUGHLY CLEAN CONTAMINATED SHOES. INGESTION: ONLY INDUCE VOMITING AT INSTRUCTION OF MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO UNCONSCIOUS PERSON. CALL PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY

ATELY.

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

Flash Point:NONE

Extinguishing Media:NONFLAMMABLE. 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

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===== 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

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

Handling and Storage Precautions:KEEP CONTAINER CLOSED.

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

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

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===== 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:USE GOOD GENERAL VENTILATION (10 AIR CHANGES/HR) 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 WASH STATION, SAFETY SHOWER, AND WASHING

F

ACILITIES.

Work Hygienic Practices:WASH AFTER HANDLING AND BEFORE EATING,  
DRINKING, OR SMOKING. LAUNDRER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING  
CONTROLS TO MAINTAIN AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE  
LIMITS.

===== 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 PROVIDE

D

Decomp Temp:Decomp Text:NOT PROVIDED

Vapor Pres:18 MM HG @ 68F

Vapor Density:0.6

Spec Gravity:1.082

pH:10.4

Viscosity:NOT PROVIDED

Evaporation Rate & Reference:NOT PROVIDED

Solubility in Water:COMPLETE

Appearance and Odor:YELLOW-ORANGE LIQUID, SLIGHT ODOR.

Percent Volatiles by Volume:85-90 WT

Corrosion Rate:NOT PROVIDED

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

Stability Indicator/Materials to Avoid:YES

NONE WITH COMMON MATERIALS AND CONTAMINANTS WITH WHICH THE  
MATERIAL MAY

REASONABLY COME INTO CONTACT.

Stability Condition to Avoid:NOT PROVIDED

Hazardous Decomposition Products:SULFUR DIOXIDE, CARBON DIOXIDE, CARBON  
MONOXIDE.

===== 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 HA

S 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. SINCE EMPTIED CONTAINERS RETAIN  
PRODUCT RESIDUE, FOLLOW LABEL WARNINGS EVEN AFTER CONTAINER IS  
EMPTIED. FLUSH TO SEWER WITH LARGE AMOUNT OF  
WATER.

===== 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 II  
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 =====

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