

EASTMAN KODAK CO. -- 139 7215, PT A, KODAK INDUSTREX DEVELOPER REPLENISHER --  
6750-01-353-4889

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

Product ID:139 7215, PT A, KODAK INDUSTREX DEVELOPER REPLENISHER

MSDS Date:04/08/1998

FSC:6750

NIIN:01-353-4889

Status Code:A

Kit Part:Y

MSDS Number: CKZNG

=== Responsible Party ===

Company Name:EASTMAN KODAK CO.

Address:343 STATE STREET

City:ROCHESTER

State:NY

ZIP:1465

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Country:US

Info Phone Num:716-722-5151

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

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

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

Ingred Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Minumum % Wt:60.  
Maxumum % Wt:65.  
Other REC Limits:NOT PROVIDED

Ingred Name:POTASSIUM SULFITE  
CAS:10117-38-1  
RTECS #:WT3530000  
Minumum % Wt:20.  
Maxumum % Wt:25.  
Other REC Limits:NOT PROVIDED

Ingred Name:HYDROQUINONE  
CAS:123-31-9  
RTECS #:MX3500000  
= Wt:9.  
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 CAR  
BONATE  
CAS:584-08-7  
RTECS #:TS7750000  
Minumum % Wt:1.  
Maxumum % Wt:5.  
Other REC Limits:NOT PROVIDED

Ingred Name:SODIUM BROMIDE  
CAS:7647-15-6  
RTECS #:VZ3150000  
Minumum % Wt:1.  
Maxumum % Wt:5.  
Other REC Limits: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

PERSONNEL. IN CONTACT WITH STRONG ACIDS OR IF HEATED, SULFITES MAY LIBERATE SULFUR DIOXIDE GAS. SULFUR DI OXIDE 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 BASE D ON HUMAN EXPERIENCE. PROLONGED OR REPEATED CONTACT WITH AQUEOUS SOLUTIONS MAY CAUSE IRRITATION. MAY CAUSE SKIN DEPIGMENTATION. INGESTION: HARMFUL IF S WALLOWED. MAY CAUSE IRRITATION OF THE GASTROINTE STINAL TRACT.

Explanation of Carcinogenicity:(COMPONENTS PRESENT AT 0.1% OR MORE): - INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC): NONE - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH): NONE - NATIONAL TOXICOLOGY PROGRAM (NTP): NONE - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (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. SOME ASTHMATICS OR HYPERSENSITIVE INDIVIDUAL S MAY EXPERIENCE DIFFICULT BREATHING. EYES: CAUSES IRRITATION. SKIN: MAY CAUSE ALLERGIC SKIN REACTION BASED ON HUMAN EXPERIENCE. PROLONGED OR REPEATED CONTACT WITH AQUEOUS SOLUTIONS MAY CAUSE IRRITATI ON. MAY CAUSE SKIN DEPIGMENTATION. INGESTION: MAY CAUSE IRRITATION OF THE GASTROINTESTINAL TRACT.

Medical Cond Aggravated by Exposure:SOME ASTHMATICS, HY PERSENSITIVE 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 PLENTY OF WATER FOR 15 MINUTES. GET MEDICAL ATTENTION IF S YMPTOMS OCCUR. SKIN: IMMEDIAT ELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. IF SKIN IRRITATION/ ALLERGIC SKIN REACTION DEVELOPS, GET MEDICAL ATTENTION. W ASH CONTAMINATED CLOTHING BEFORE REUSE. CLEAN CONTAMINATED SHOES. INGESTION: ONLY INDUCE VOMITING AT INSTRUCTION OF MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO UNCONSCIOUS PERSON. CALL PHYSICIA N OR POISON CONTROL CENTER IMMEDIATELY.

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

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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 MATE  
RIAL,  
THEN PLACE IN A CONTAINER FOR CHEMICAL WASTE. CLEAN SURFACE  
THOROUGHLY TO REMOVE RESIDUAL C ONTAMINATION.  
Neutralizing Agent:NOT PROVIDED

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

Handling and Storage Precautions:KEEP CONTAINER TIGHTLY CLOSED. KEEP  
AWAY FROM INCOMPATIBLE SUBSTANCES.  
Other Precautions:AVOID PROLONGED OR REPEATED BREATHING OF MIST. 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 POSSIBILIT Y OF  
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.  
Ventilation:G  
OOD GENERAL VENTILATION (TYPICALLY 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:SAFETY GLASSES WITH SIDE SHIELDS (OR GOGGLES) AND A FACE  
SHIELD.  
Other Protective Equipment:EYE BATH, WASHING FACILITIES, SAFETY SHOWER.  
Work Hygienic Practices:WASH AFTER HANDLING AND BEFORE EATING,  
DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHIN

G BEFORE REUSE.

Supplemental Safety and Health

USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO MAINTAIN AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS. 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:F6

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:24 MBAR 18 MMHG @ 68F

Vapor Density:0.6

Spec Gravity:1.310

pH:12.0

Viscosity:NOT PROVIDED

Evaporation Rate & Reference:NOT PROVIDED

Solubility in Water:COMPLETE

Appearance and Odor:LIQUID, OFF-WHITE, ODORLESS.

Percent Volatiles by Volume:60-65 WT

Corrosion Rate:NOT PROVIDED

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

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS.

Stabi

lity Condition to Avoid:STABLE

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

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

Toxicological Information:INGESTION OF BROMIDE SALTS CAN CAUSE NAUSEA, VOMITING, HEADACHE, IRRITABILITY, DELIRIUM, MEMORY LOSS, DECREASED APPETITE, JOINT PAIN, HALLUCINATIONS, STUPOR, COMA, AND ACNELIKE RASH ON FACE, LEGS, AND TRUNK. IN F-344 RATS, CHRONIC ORAL ADMINISTRATION OF HYDROQUINON

E HAS RESULTED IN  
THE FORMATION OF BENIGN KIDNEY TUMORS THOUGHT TO BE SECONDARY  
TO NEPHROPATHY.

===== 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: 70%): YES (7 DAYS). POTENTIAL BIOACCUMULATION: LOG  
POW 100.

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

Waste Disposal Method

s:DISCHARGE, TREATMENT, OR DISPOSAL MAY BE SUBJECT  
TO NATIONAL, STATE, OR LOCAL LAWS. FLUSH TO SEWER WITH LARGE  
AMOUNTS 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 FR IDAY.

===== 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 =====

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