

EASTMAN KODAK COMPANY -- 812 1188,PT A,KODAK T-MAX 100 DIRECT POSITIVE (SEE SUPPL) --  
6750-01-097-0773

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

Product ID:812 1188,PT A,KODAK T-MAX 100 DIRECT POSITIVE (SEE SUPPL)

MSDS Date:03/09/2001

FSC:6750

NIIN:01-097-0773

Status Code:A

Kit Part:Y

MSDS Number: CLHHN

=== Responsible Party ===

Company Name:EASTMAN KODAK COMPANY

Address:343 STATE STREET

City:ROCHESTER

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tate:NY

ZIP:14650

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

Minimum % Wt:80.

Maxumum % Wt:85.  
Other REC Limits:NOT PROVIDED  
Code:F  
Code:F

Ingred Name:POTASSIUM SULFITE  
CAS:10117-38-1  
RTECS #:WT3530000  
Minumum % Wt:5.  
Maxumum % Wt:10.  
Other REC Limits:NOT PROVIDED  
OSHA PEL:NOT PROVIDED  
ACGIH TLV:NOT PROVIDED

Ingred Name:POTASSIUM CARBONATE  
CAS:584-08-7  
RTECS #:TS7750000  
Minumum % Wt:5.  
Maxumum % Wt:10.  
Other REC Limits:NOT PROVIDED  
OSHA PEL:NOT PROVIDED  
ACGIH TLV:NOT PROVIDED

Ingred Name:PENIETIC ACID, PENTA SODIUM SALT  
CAS:140-01-2  
&lt; Wt:1.  
Other REC Limits:NOT PRO  
VIDED  
OSHA PEL:NOT PROVIDED  
ACGIH TLV:NOT PROVIDED

Ingred Name:HYDROQUINONE  
CAS:123-31-9  
RTECS #:MX3500000  
= Wt:4.  
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

===== 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 TRaine

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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: CAUSES IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION BASED ON HUMAN EXPERIENCE. MAY CAUSE SKIN DEPIGMENTATION. INGESTION: HARMFUL IF SWALLOWED. MAY CAUSE IRRITATION OF THE GASTROINTESTINAL TRACT.

Expla

nation of Carcinogenicity:(IARC): HYDROQUINONE, SULFUR DIOXIDE, SOME SULFITES, BISULFITES AND METASULFITES, GROUP 3; NOT CLASSIFIABLE. (ACGIH): HYDROQUINONE, A3; CONFIRMED ANIMAL CARCINOGEN WITH UNKNOWN RELEVANCE HUMANS. SODIUM BISULFITE, A4; NOT CLASSIFIABLE AS HUMAN CARCINOGEN. 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 RESPIRATORY TRACT. EYES: CAUSES IRRITATION. SKIN: CAUSES IRRITATION. MAY CAUSE SKIN DEPIGMENTATION. 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.

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===== 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 AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR. SKIN: IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES, WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. IF SKIN IRRITATION OR ALLERGIC SKIN REACTION OCCURS, GET MEDICAL ATTENTION. WASH CONTAMINATED CLO

THING BEFORE REUSE. INGESTION:

ONLY INDUCE VOMITING AT THE INSTRUCTION OF MEDICAL PERSONNEL. CALL PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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

Flash Point:NONFLAMMABLE

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.

Other Precautions:AVOID BREATHING MIST AT CONCENTRATIONS GREATER THAN EXPOSURE LIMITS. AVOID CONTACT WITH EYES, SKIN, CLOTHING. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. ROUTINE USE OF NONALKALINE (ACID) TYPE HAND CLEANER AND REGULAR CLEANING OF WORKING SURFACES, GLOVES, ETC. MINIMIZE POSSIBILITY 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. 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 Hygienic Practices:NOT PROVIDED

Supplemental Safety and Health

CONTD FROM PRODUCT ID: FILM REDEVELOPER. THIS IS A KIT. THE OTHER MSDS SERIAL NUMBER: CLHHP.

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

HCC:B3

NRC/State Lic Num:NOT RELEVANT

Boil

ing Pt:>100.C, 212.F  
Melt/Freeze Pt:M.P/F.P Text:NOT PROVIDED  
Decomp Temp:Decomp Text:NOT PROVIDED  
Vapor Pres:68F: 24MBAR (18 MM HG)  
Vapor Density:0.6  
Spec Gravity:1.13  
pH:10.1  
Viscosity:NOT PROVIDED  
Evaporation Rate & Reference:NOT PROVIDED  
Solubility in Water:COMPLETE  
Appearance and Odor:YELLOW ODORLESS, LIQUID.  
Percent Volatiles by Volume:80-85 WT  
Corrosion Rate:NOT PROVIDED

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

Stability Indicator/Materials to Avoid:YES  
ST  
RONG 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 NOT  
ED 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 RA TS 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 =====

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