

EASTMAN KODAK CO GOVERNMENT MARKETS CONTRACTS -- 146 4700,CONC,KODAK DEKTOL DEVELOPER (SINGLE POWDER) -- 6750-00-945-6529

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

Product ID:146 4700,CONC,KODAK DEKTOL DEVELOPER (SINGLE POWDER)

MSDS Date:06/18/1999

FSC:6750

NIIN:00-945-6529

Status Code:A

MSDS Number: CLNVJ

=== Responsible Party ===

Company Name:EASTMAN KODAK CO GOVERNMENT MARKETS CONTRACTS

Address:343 S

TATE 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 (800) 242-2424

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

Contract Num:SP0500-96-D-9413-N858

CAGE:19139

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

Ingred Name:SODIUM CA  
RBONATE MONOHYDRATE

CAS:5968-11-6

Minumum % Wt:50.

Maxumum % Wt:55.

Ingred Name:SODIUM SULFITE

CAS:7757-83-7

RTECS #:WE2150000

Minumum % Wt:30.

Maxumum % Wt:35.

Ingred Name:HYDROQUINONE

CAS:123-31-9

RTECS #:MX3500000

= Wt:6.

OSHA PEL:2 MG/M3

ACGIH TLV:2 MG/M3

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:4-(METHYLAMINO)PHENOL SULFATE

CAS:55-55-0

:5.  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:POTASSIUM BROMIDE  
CAS:7758-02-3  
RTECS #:TS7650000  
Minumum % Wt:1.  
Maxumum % Wt:5.

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

LD50 LC50 Mixture:ORAL LD-50 (RAT): 0.5-5.0 G/KG  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:UNKNOWN IARC:YES  
Health Hazards Acute and Chronic:INHALATION: HARMFUL IF INHALED.  
AIRBORNE DUST IRRITATING. MAY CAUSE IRRITATION TO MUCOUS MEMBRANES  
AND UPPER RESPIRATORY TRACT. 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. AIRBORNE DUST IRRITATING. REPEATED EXPOSURE TO DUST MAY CAUSE EYE INJURY. SKIN: CAUSES IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION BASED ON HUMAN EXPERIENCE. INGESTION: HARMFUL IF SWALLOWED.

WALLOWED. MAY CAUSE BURNS OF THE GASTRO INTESTINAL TRACT IF SWALLOWED.

Explanation of Carcinogenicity:CARCINOGENICITY CLASSIFICATION (COMPONENTS PRESENT AT 0.1% OR MORE):INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC): HYDROQUINONE, GROUP 3 - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH) (HYDROQUINONE): A3 - ANIMAL CARCINOGEN - NATIONAL TOXICOLOGY PROGRAM (NTP): NONE - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA): NONE

Effects of Overexposure:CONTAINS: 4-(METHYLAMINO)PHENOL SULFATE. BASED ON ANIMAL DATA, MAY CAUSE ADVERSE EFFECTS ON THE FOLLOWING ORGANS/SYSTEMS: BLOOD, KIDNEY, SPLEEN. BASED ON ANIMAL DATA THIS MATERIAL CAN PRODUCE METHEMOGLOBIN WHICH, IN SUFFICIENT CONCENTRATION, CAUSES CYANOSIS, A BLUE-GRAY DISCOLORATION OF THE SKIN AND LIPS CAUSED BY A REDUCED ABILITY OF THE BLOOD TO CARRY OXYGEN.

Medical Cond Aggravated by Exposure:SOME ASTHMATICS OR SULFITE-SENSITIVE INDIVIDUALS MAY EXPERIENCE

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 OCCUR. EYES: IMMEDIATELY FLUSH WITH WATER AT LEAST 15 MINUTES. GET MEDICAL ATTENTION. SKIN: IMMEDIATELY FLUSH WITH WATER AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. IF SKIN IRRITATION OR AN ALLERGIC SKIN REACTION DEVELOPS, GET MEDICAL ATTENTION. WASH CONTAMINATED CLOTHING BEFORE REUSE. DESTROY OR THOROUGHLY CLEAN CONTAMINATED SHOES. INGESTION: ONLY INDUCE VOMITING AT THE INSTRUCTION OF MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

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

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 AMOUNTS OF WATER. OTHERWISE, SWEEP UP AND PLACE IN A CONTAINER FOR CHEMICAL WASTE. CLEAN SURFACE THOROUGHLY TO REMOVE RESIDUAL CONTAMINATION.

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

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Handling and Storage Precautions:STORAGE-KEEP CONTAINER CLOSED. KEEP AWAY FROM INCOMPATIBLE SUBSTANCES. PERSONAL  
Other Precautions:PRECAUTIONARY MEASURES-AVOID BREATHING DUST. AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. THE ROUTINE USE OF A NONALKALINE (ACID) HAND CLEANER AND REGULAR CLEANING OF WORKING SURFACES, GLOVES, ETC. WILL MINIMIZE THE POSSIBILITY OF A SKIN REACTION.

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Exposure Controls/Personal Protection =====

Respiratory Protection: IF ENGINEERING CONTROLS DO NOT MAINTAIN AIRBORNE CONCENTRATIONS BELOW RECOMMENDED EXPOSURE LIMITS, AN APPROVED RESPIRATOR MUST BE WORN. RESPIRATOR TYPE: DUST. A RESPIRATOR SHOULD BE WORN IF HAZARDOUS DECOMPOSITION PRODUCTS ARE LIKELY TO BE OR HAVE BEEN RELEASED. RESPIRATOR: ACID GAS. IF RESPIRATORS USED, 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 & PROTECTIVE CLOTHING APPROPRIATE FOR RISK OF EXPOSURE.

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

Other Protective Equipment: WEAR A FULL-FACE RESPIRATOR, IF NEEDED. EYE BATH, WASHING FACILITIES, SAFETY SHOWER.

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health  
VENTILATION: USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR

OTHER ENGINEERING CONTROLS TO MAINTAIN AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS.

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

HCC: T6

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

Vapor Pres: @ 20°C (68°F): NEGLIGIBLE

Spec Gravity: NOT AVAILABLE

Solubility in Water: APPRECIABLE

Appearance and Odor: WHITE, ODORLESS SOLID.

Percent Volatiles by Volume: NEGLIGIBLE

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

Stability Indicator/Materials to Avoid: YES  
STRONG ACIDS.

Stability Condition to Avoid: STABLE.

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

Conditions to Avoid Polymerization: WILL NOT OCCUR.

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

Toxicological Information: HYDROQUINONE. 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.

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

Ecological:SUMMARY: DATA

FOR THE MAJOR COMPONENTS OF THIS MATERIAL HAVE

BEEN USED TO ESTIMATE THE ENVIRONMENTAL IMPACT OF THIS MATERIAL.

THIS MATERIAL FORMS A MODERATELY ALKALINE AQUEOUS SOLUTION, & THIS PROPERTY MAY CAUSE ADVERSE ENVIRONMENTAL EFFECTS. HOWEVER, THIS MATERIAL, ITSELF, HAS NOT BEEN TESTED FOR ENVIRONMENTAL EFFECTS. IT IS EXPECTED TO HAVE THE FOLLOWING PROPERTIES: A MODERATE

BIOCHEMICAL OXYGEN DEMAND & MAY CAUSE OXYGEN DEPLETION IN AQUEOUS SYSTEMS, A HIGH POTENTIAL TO AFFECT SOME

AQUATIC ORGANISMS, A HIGH

POTENTIAL TO AFFECT SECONDARY WASTEWATER TREATMENT MICROBIAL METABOLISM, A MODERATE POTENTIAL TO AFFECT THE GERMINATION.. AND/OR EAR

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

Waste Disposal Methods: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 EMPTY

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

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

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

SARA Title III Information:CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OR TITLE III OF THE SUPERSTRENGTH AND ACCUMULATION ACT.

RFUND

AMENDMENTS AND REAUTHORIZATION ACT (SARA) OF 1986 AND 40 CFR PART 372: HYDROQUINONE

Federal Regulatory Information: CARCINOGENICITY CLASSIFICATION

(COMPONENTS PRESENT AT 0.1% OR MORE):- INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC): HYDROQUINONE, GROUP 3. AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH) (HYDROQUINONE): A3 - ANIMAL CARCINOGEN. NATIONAL TOXICOLOGY PROGRAM (NTP): NONE. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA): NONE.

A): NONE.

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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mply, 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.