

EASTMAN KODAK COMPANY -- 146 4726,CONC,KODAK DEKTOL DEVELOPER (SINGLE POWDER) --  
6750-01-398-4609

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

Product ID:146 4726,CONC,KODAK DEKTOL DEVELOPER (SINGLE POWDER)

MSDS Date:06/18/1999

FSC:6750

NIIN:01-398-4609

Status Code:A

MSDS Number: CKYHS

=== Responsible Party ===

Company Name:EASTMAN KODAK COMPANY

Address:343 STATE STREET

City:ROCHESTER

State:NY

ZIP:14650

Co

untry: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:SODIUM CARBONATE, MONOHYDRATE (ANHYDROUS: 497-19-8)

CAS:5968-11-6

Minumum

% Wt:50.

Maxumum % Wt:55.

Other REC Limits:NOT PROVIDED

OSHA PEL:NOT PROVIDED

ACGIH TLV:NOT PROVIDED

Ingred Name:SODIUM SULFITE

CAS:7757-83-7

RTECS #:WE2150000

Minumum % Wt:30.

Maxumum % Wt:35.

Other REC Limits:NOT PROVIDED

OSHA PEL:NOT PROVIDED

ACGIH TLV:NOT PROVIDED

Ingred Name:SODIUM HEXAMETAPHOSPHATE

CAS:10124-56-8

RTECS #:OY3675000

Minumum % Wt:1.

Maxumum % Wt:5.

me:POTASSIUM BROMIDE  
CAS:7758-02-3  
RTECS #:TS7650000  
Fraction by Wt: 1 - 5%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:HYDROQUINONE  
CAS:123-31-9  
RTECS #:MX3500000  
= Wt:6.  
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:4-(METHYLAMINO) PHENOL SULFATE  
CAS:55-55-0  
RTECS #:SL8650000  
Minumum % Wt:1.  
Maxumum % Wt:5.  
Other REC Limits:NOT PROVIDED  
OSHA PEL:NOT PROVIDED  
ACGIH TLV:NOT PROVIDED

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n =====  
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Hazards Identificatio

LD50 LC50 Mixture:ORAL LD-50 (RAT): 0.5-5.0 G/KG  
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:EFFECTS OF EXPOSURE: INHALATION:  
HARMFUL IF INHALED. AIRBORNE DUST IRRITATING. MAY CAUSE  
IRRITATION TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT. IN  
CONTACT WITH STRONG ACIDS OR HEATED, SULFITES MAY LIBERATE SULFUR  
DIOXIDE GAS. SULFUR DIOXIDE GAS IS IRRITATING TO RESPIRATORY TRACT.  
ASTHMATICS OR HYPERSENSITIV  
E INDIVIDUALS MAY EXPERIENCE DIFFICULT  
BREATHING. EYES: CAUSES IRRITATION. AIRBORNE DUST IRRITATING.  
REPEATED EXPOSURE TO DUST CAUSE EYE INJURY. SKIN: CAUSES  
IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION BASED ON HUMAN  
EXPERIENCE. INGESTION: HARMFUL IF SWALLOWED. MAY CAUSE BURNS OF G  
ASTROINTESTINAL 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: INHALATION: AIRBORNE DUST IRRITATING. MAY CAUSE  
IRRITATION TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT. IN  
CONTACT WITH STRONG ACIDS OR HEATED, SULFITES MAY LIBERATE SULFUR  
DIOXIDE GAS. SULFUR DIOXIDE GAS I

IRRITATING TO RESPIRATORY  
TRACT. ASTHMATICS OR HYPERSENSITIVE INDIVIDUALS MAY EXPERIENCE  
DIFFICULT BREATHING. EYES: CAUSES IRRITATION. AIRBORNE DUST  
IRRITATING. SKIN: CAUSES IRRITATION. MAY CAUSE ALLERGIC SKIN  
REACTION BASED ON HUMAN EXPERIENCE. INGESTION: MAY CAUSE BURNS OF  
GASTROINTESTINAL TRACT IF SWALLOWED.

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 OCCUR. EYES: IMMEDIATELY FLUSH WITH  
PLENTY OF WATER AT LEAST 15 MINUTES. GET MEDICAL ATTENTION. SKIN:  
IMMEDIATELY FLUSH WITH PLENTY OF WATER AT LEAST 15 MINUTES 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.

===== 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 =====

Handling and Storage Precautions:KEEP CONTAINER CLOSED. KEEP AWAY FROM INCOMPATIBLE SUBSTANCES (SEE INCOMPATIBILITY SECTION).

Other Precautions: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) 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 Control  
s/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. FOR HAZARDOUS DECOMPOSITION PRODUCTS, 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) AND A FACE SHIELD.

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

Work Hygienic Practices:NOT PROVIDED

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.

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Physical/Chemical Properties =====

HCC:B3

NRC/State Lic Num:NOT RELEVANT

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

Decomp Temp:Decomp Text:NOT PROVIDED

Vapor Pres:NEGLIGIBLE

Spec Gravity:NOT AVAILABLE

V

iscosity:NOT PROVIDED  
Evaporation Rate & Reference:NOT PROVIDED  
Solubility in Water:APPRECIABLE  
Appearance and Odor:WHITE SOLID. ODOR: ODORLESS.  
Percent Volatiles by Volume:NEGLIGIBLE  
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: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. IN F-344 RATS, CHRONIC ORAL ADMINISTRATION OF  
HYDROQUINONE  
HAS RESULTED IN THE FORMATION OF BENIGN KIDNEY TUMORS THOUGHT TO BE  
SECONDARY TO NEPHROPATHY.

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

Ecological:IT IS EXPECTED TO HAVE THE FOLLOWING PROPERTIES: A MODERATE  
BIOCHEMICAL OXYGEN DEMAND AND MAY CAUSE OXYGEN DEPLETION IN  
AQUEOUS SYSTEMS, A HIGH POTENTIAL TO AFFECT SOME AQUATIC  
ORGANISMS, A HIGH POTENTIAL TO AFFECT SECONDARY WASTE TREATMENT  
MICROBIAL METABOLISM, A MODERATE POTENTIAL  
TO AFFECT THE  
GERMINATION AND/OR EARLY GROWTH OF SOME PLANTS, A LOW POTENTIAL TO  
BIOCONCENTRATE, A LOW POTENTIAL TO PERSIST IN THE ENVIRONMENT.  
AFTER DILUTION WITH A LARGE AMOUNT OF WATER, FOLLOWED BY SECONDARY  
WASTE TREATMENT, THIS MATERIAL IS NOT EXPECTED TO CAUSE ADVERSE  
ENVIRONMENTAL EFFECTS.

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

Waste Disposal Methods:DISCHARGE, TREATMENT, OR DISPOSAL MAY BE SUBJECT  
TO NATIONAL, STATE, OR LOCAL LA

WS. FLUSH TO SEWER WITH LARGE AMOUNTS OF WATER. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUE, FOLLOW LABEL WARNINGS E VEN 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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