

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

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

CAS:5968-11-6

Minumu

m % 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

Minimum % 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

Minimum % Wt:1.

Maxumum % Wt:5.

Other REC Limits:NOT PROVIDED

Name: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

=====
ion =====

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 HYPERSENSIT
IVE 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 (IAR

C): 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
IS 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 REGUL AR CLEANING OF WORKING SURFACES, GLOVES, ETC. WILL HELP MINIMIZE THE POSSIBILITY OF A SKIN REACTION.

=====
Exposure Contr
ols/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, RES PIRATOR 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) S HOULD 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 O THER 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: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

Viscosity: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
4-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

LAWS. 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 =====

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, 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.