

EASTMAN KODAK CO GOVERNMENT MARKETS CONTRACTS -- 146 4569, WORKING SOLUTION,
KODAK DEVELOPER D-11 -- 6750-00-266-7635

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

Product ID:146 4569, WORKING SOLUTION, KODAK DEVELOPER D-11

MSDS Date:02/02/2001

FSC:6750

NIIN:00-266-7635

Status Code:A

MSDS Number: CLHLV

=== Responsible Party ===

Company Name:EASTMAN KODAK CO GOVERNMENT MARKETS CONTRACTS

Address:343 STATE 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

Resp. Party Other MSDS Num.:200000228/F/USA

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

RTE

CS #:ZC0110000

Minumum % Wt:85.

Maxumum % Wt:90.

Ingred Name:SODIUM SULFITE

CAS:7757-83-7

RTECS #:WE2150000

Minumum % Wt:5.

Maxumum % Wt:10.

Ingred Name:SODIUM CARBONATE

CAS:497-19-8

RTECS #:VZ4050000

Minumum % Wt:1.

Maxumum % Wt:5.

Ingred Name:HYDROQUINONE

CAS:123-31-9

RTECS #:MX3500000

< Wt:1.

OSHA PEL:2 MG/M3

CAS:55-55-0
RTECS #:SL8650000
< Wt:1.

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:INHALATION: EXPECTED TO BE LOW HAZARD FOR RECOMMENDED HANDLING. SOME ASTHMATICS OR HYPERSENSITIVE INDIVIDUALS MAY EXPERIENCE DIFFICULT BREATHING. EYES: CAUSES IRRITATION. SKIN: CAUSES IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION

BASED ON HUMAN EXPERIENCE. INGESTION: MAY BE HARMFUL IF SWALLOWED. SOME ASTHMATICS OR SULFITE-SENSITIVE INDIVIDUALS MAY EXPERIENCE WHEEZING, CHEST TIGHTNESS, STOMACH UPSET , HIVES, FAINTNESS, WEAKNESS & DIARRHEA.

Explanation of Carcinogenicity:INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC): NONE - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH): HYDROQUINONE, A3; CONFIRMED ANIMAL CARCINOGEN WITH UNKNOWN RELEVANCE TO HU MANS - NATIONAL TOXICOLOGY

PROGRAM (NTP): NONE - OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (OSHA): NONE

Effects of Overexposure:INHALATION: EXPECTED TO BE LOW HAZARD FOR RECOMMENDED HANDLING. SOME ASTHMATICS OR HYPERSENSITIVE INDIVIDUALS MAY EXPERIENCE DIFFICULT BREATHING. EYES: CAUSES IRRITATION. SKIN: CAUSES IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION BASED ON HUMAN EXPERIENCE. INGESTION: MAY BE HARMFUL IF SWALLOWED. SOME ASTHMATICS OR SULFITE-SENSITIVE INDIVIDUALS MAY EXPERIENCE WHEEZING, C

HEST TIGHTNESS, STOMACH UPSET , HIVES, FAINTNESS, WEAKNESS & DIARRHEA.

Medical Cond Aggravated by Exposure:SOME ASTHMATICS OR SULFITE-SENSITIVE INDIVIDULAS MAY EXPERIENCE 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 EXIST. EYES: IMMEDIATELY FLUSH WITH PLENT

Y OF WATER FOR AT LEAST 15 MIN. GET
MEDICAL ATTENTION I F SYMPTOMS OCCUR. SKIN: IMMEDIATELY FLUSH WITH
PLENTY WATER FOR >15 MIN WHILE REMOVING CONTAMINATED CLOTHES/SHOES.
IF REACTION OCCURS GET MEDICAL ATTENTION. WAH CLOTHES BEFORE REUSE.
DESTROY CONTAMINA TED SHOES. INGESTION: DRINK 1-2 GLASSES OF WATER.
SEEK MEDICAL ATTENTION. NEVEGIVE ANYTHING BY MOUTH TO UNCONSCIOUS
PERSON.

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

Flash Point:NONE, NOT FL

AMM

Extinguishing Media:USE APPROPRIATE AGENT FOR ADJACENT FIRE.

Fire Fighting Procedures:FIRE OR EXCESSIVE HEAT MAY PRODUCE HAZARDOUS
DECOMPOSITION PRODUCTS. WEAR SELF-CONTAINED BREATHING APPARATUS AND
PROTECTIVE CLOTHING.

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 THOROU

GHLY TO REMOVE RESIDUAL CONTAMINATION.

Neutralizing Agent:NONE

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

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

Other Precautions:AVOID BREATHING MIST OR VAPOR. AVOID CONTACT WITH
EYES, SKIN & CLOTHING. USE WITH ADEQUATE VENTILATION. WASH
THOROUGHLY AFTER HANDLING.

===== 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 &
REACTIVITY SECTION. IF RESPIR ATORS ARE USED, A PROGRAM SHOULD BE
INSTITUTED TO ASSURE COMPLIANCE WITH 29 CFE 1910.134.

Ventilation:GOOD GENERAL VENTILATION (TYPICALLY 10 AIR CHANGES PER
HOUR) SHOULD BE USED. VENTILATION RATES SHOULD BE MATCHED TO
CONDITIONS.

Protective Gloves:WE

AR IMPERVIOUS GLOVES & PROTECTIVE CLOTHING

APPROPRIATE FOR RISK OF EXPOSURE.

Eye Protection:WEAR SAFETY GLASSES WITH SIDE SHIELDS (OR GOGGLES)

Other Protective Equipment:EYE BATH, SAFETY SHOWER, WASHING FACILITIES.

Work Hygienic Practices:NOT PROVIDED

Supplemental Safety and Health

THE NSN PURCHASED IS FOR THE CONCENTRATE. THIS ENTRY IS FOR THE WORKING SOLUTION WHICH IS MADE FROM DILUTING THE CONCENTRATE AT THE TIME OF USE.

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

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HCC:N1

Vapor Pres:18 MM HG

Vapor Density:0.6

Spec Gravity:1.096

pH:9.9-10.0

Solubility in Water:COMPLETE

Appearance and Odor:COLORLESS LIQUID, ODORLESS

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

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS

Stability Condition to Avoid:STABLE

Hazardous Decomposition Products:SULFUR DIOXIDE

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

Toxicological Information:IN F-344 RATS, CHRONIC ORAL ADMINISTRATION OF

HYDROQUINONE RESULTED IN FORMATION OF BENIGN KIDNEY TUMORS THOUGHT TO BE SECONDARY TO NEPHROPATHY. HYDROQUINONE-INDUCED NEPHROPATHY FOLLOWING ORAL ADMINISTRATION HAS BEEN NOTED IN MALE F-344 RAT, BUT NOT IN OTHER SPECIES OR RAT STRAINS TESTED. ALTHOUGH INCREASE IN MONONUCLEAR CELL LEUKEMIA IN F-344 FEMALE RATS HAS BEEN REPORTED FOLLOWING CHRONIC ORAL ADMINISTRATION OF HYDROQUINONE, THIS FINDING NOT REPRODUCED IN SUBSEQUENT STUDY. NO EVIDENCE OF CAR

CINOGENITY IN MALE MICE FOLLOWING ORAL ADMINISTRATION OF
HYDROQUINONE, SOME EVIDENCE SHOWN IN FEMALES (SEE OTHER
INFORMATION)

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

Ecological:ESTIMATED DATA BASED ON HYDROQUINONE: FISH LC50: 1-10 MG/L,
DAPHNID EC50: 70%): YES (7 DAYS), POTENTIAL BIOACCUMULATION: LOG POW
100 MG/L

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

Waste Disposal Methods:DISCHARGE, TREATMENT, OR DISPOSAL MAY BE SUB
JECT
TO NATIONAL, STATE, OR LOCAL LAWS. FLUSH TO SEWER WITH LARGE
AMOUNTS OF WATER.

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

Transport Information:NOT REGULATED PER KODAK TRANSPORTATION HOTLINE.

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

SARA Title III Information:HYDROQUINONE IS 313 CHEMICAL. EHS RQ IS 100
LB. HOWEVER, CONCENTRATION IS