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Product ID:146 3108 HYDROQUINONE

MSDS Date:06/16/1999

FSC:6750

NIIN:00-664-8269

MSDS Number: BFKTY === Responsible Party ===

Company Name: EASTMAN KODAK CO.

Address:343 STATE STREET

City:ROCHESTER

State:NY ZIP:14650 Country:US

Info Phone Num:716-724-4501/PACK=JOHN 716-588-3559

Emergency Phone Num:716-722-5151(72)/FAX 716-724-9656 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

Company Name: EASTMAN KODAK CO US CUSTOMER SERVICE/GOVERNMENT SALES

Address:800 LEE RD Box:City:ROCHESTER

State:NY

ZIP:14650-3129 Country:US

Phone:800-828-6203

CAGE:5K871

======= Composition/Information on Ingr

edients	======	=====
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Ingred Name: HYDROQUINONE

CAS:123-31-9

RTECS #:MX3500000

= Wt:100.

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

LD50 LC50 Mixture:ORAL RAT LD50 IS 400 MG/KG

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

Health Hazards Acute and Chronic:HYDROQUINONE IS GENERALLY NEGATIVE IN BACTERIAL

MUTAGENICITY TESTS; THERE IS EVIDENCE FOR THE

CLASTOGENICITY (CHROMOSOME BREAKAGE) OF HYDROQUINONE IN VIVO AND IN VITRO. THE RELEVANCE OF THE CHROMOSOMA L EFFECTS IN TEST ANIMALS IN PREDICTING HUMAN RISK IS UNCLEAR. INHALATION: HARMFUL IF INHALED. EYES: CAUSES IRRITATION. REPEATED EXPOSURE TO DUST MAY CAUSE EYE INJURY. SKIN: MAY CAUSE ALLERGIC SKIN RE ACTION BASED ON HUMAN EXPERIENCE. MAY CAUSE SKIN DEPIGMENTATION. PROLONGED OR REPEATED CONTACT WITH AQUEOUS SOLUTIONS

MAY CAUSE IRRITATION. INGESTION:

HARMFUL IF SWALLOWED. MAY CAUSE IRRITATION OF THE GASTROINTESTINAL TRACT.

Explanation of Carcinogenicity:CARCINOGENICITY CLASSIFICATION
(COMPONENTS PRESENT AT 0.1% OR MORE): - INTERNATIONAL AGENCY FOR
RESEARCH ON CANCER (IARC): GROUP 3 - NOT CLASSIFIABLE - AMERICAN
CONFERENCE OF GOVERNMENTAL INDUSTRIAL H YGIENISTS (ACGIH): A3 ANIMAL CARCINOGEN - NATIONAL TOXICOLOGY PROGRAM (NTP): NONE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

(OSHA): NONE

Effects of Overexposure:EYES: CAUSES IRRITATION. SKIN: MAY CAUSE SKIN DEPIGMENTATION. PROLONGED OR REPEATED CONTACT WITH AQUEOUS SOLUTIONS MAY CAUSE IRRITATION. INGESTION: MAY CAUSE IRRITATION OF THE GASTROINTESTINAL TRACT.

Medical Cond Aggravated by Exposure: NOT PROVIDED

First Aid:INHALATION: IF SYMPTOMATIC, 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/ ALLERGIC SKIN REACTION DEVELOPS, GET MEDICAL ATTENTION. WASH CONTAM INATED CLOTHING BEFORE REUSE. INGESTION: ONLY INDUCE VOMITING AT THE INSTRUCTION OF MEDICAL PERSONNEL. DRINK 1-2 GLASSES OF WATER. CALL A PHYSICIAN OR POISON CONTROL CENTER

IMMEDIATEL Y. NEVER GIVE ANY THING BY MOUTH TO AN UNCONSCIOUS PERSON.
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Flash Point Method:CC Flash Point:=165.C, 329.F Extinguishing Media:WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE (CO2) Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. Unusual Fire/Explosion Hazard:POWDERED MATERIAL MAY FORM EXPLOSIVE DUST- AIR MIXTURES.
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Spill Release Procedures:SWEEP UP AND PLACE IN A CONTAINER FOR CHEMICAL WASTE. CLEAN SURFACE THOROUGHLY TO REMOVE RESIDUAL CONTAMINATION. Neutralizing Agent:NOT RELEVANT
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Handling and Storage Precautions:KEEP CONTAINER CLOSED. POWDERED MATERIAL MAY FORM EXPLOSIVE DUST-AIR MIXTURES. MINIMIZE DUST GENERATION AND ACCUMULATION. USE WITH ADEQUATE VENTILATION. KEEP AWAY FROM SOURCES OF IGNITION. KEEP FROM CONTA CT WITH OXIDIZING
MATERIALS. Other Precautions:AVOID BREATHING DUST AT CONCENTRATIONS GREATER THAN THE EXPOSURE LIMITS. AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING.

====== 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.

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, BOOTS, AND PROTECTIVE CLOTHING FOR RISK OF EXPOSURE.

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

Other Protective Equipment: WEAR A FULL-FAC

E RESPIRATOR, IF NEEDED. EYE

BATH, WASHING FACILITIES, SAFETY SHOWER

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.

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

HCC:T4

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:=286.1C, 547.F Melt/Freeze Pt:=170.C, 338.F

Decomp Temp:Decomp Text:NOT PROVIDED

Vapor

Pres:(0.000018 MM HG)

Vapor Density:3.8

Spec Gravity:(59F) (WATER = 1): 1.33

pH:4.1-4.7 (5%)

Viscosity: NOT PROVIDED

Evaporation Rate & Description R

Solubility in Water:7% (MODERATE)

Appearance and Odor: WHITE (CRYSTAL) SOLID. ODOR: ODORLESS

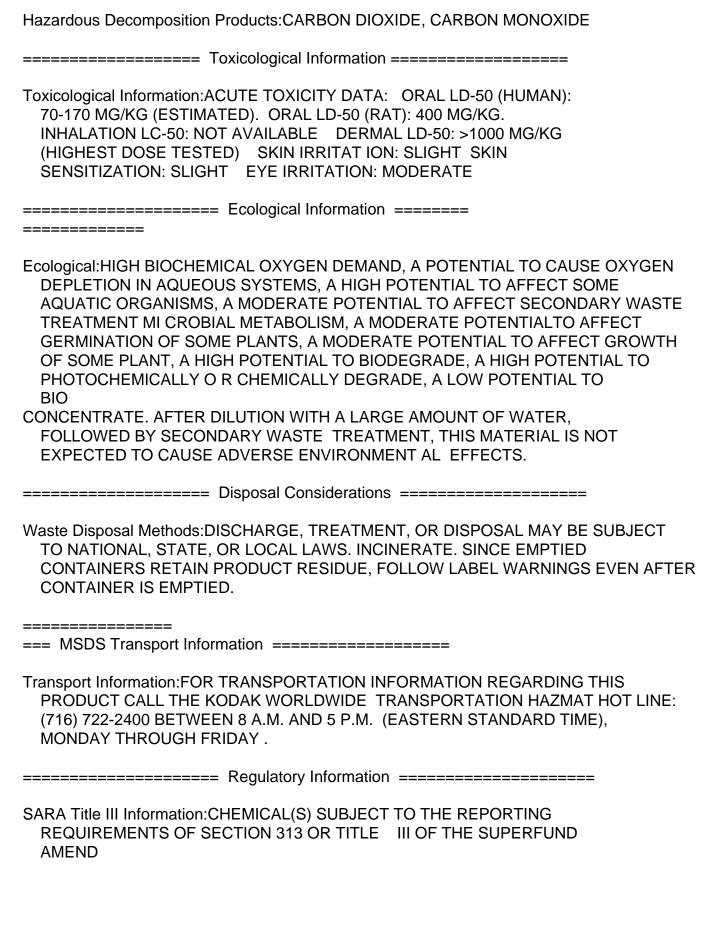
Percent Volatiles by Volume: NEGLIGIBLE

Corrosion Rate: NOT PROVIDED

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

Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS

Stability Condition to Avoid: NOT PROVIDED



MENTS 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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