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EASTMAN KODAK CO. -- 146 3108 HYDROQUINONE -- 6750-00-664-8269

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:716-7 22-5151(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 Ingre

dients =========

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 M** UTAGENICITY 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 M AY 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 IMMEDIATELY

. NEVER GIVE ANY THING BY MOUTH TO AN UNCONSCIOUS PERSON.

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

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 CONTAC
T 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. I F 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-FACE **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. 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

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

Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS Stability Condition to Avoid:NOT PROVIDED H

Pres:(0.000018 MM HG)

Viscosity:NOT PROVIDED

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

Solubility in Water:7% (MODERATE)

Corrosion Rate:NOT PROVIDED

Percent Volatiles by Volume:NEGLIGIBLE

Evaporation Rate & amp; Reference: NEGLIGIBLE

Vapor Density:3.8

pH:4.1-4.7 (5%)

azardous Decomposition Products:CARBON DIOXIDE, CARBON MONOXIDE

Toxicological Information:ACUTE TOXICITY DATA: ORAL LD-50 (HUMAN): 70-170 MG/KG (ESTIMATED). ORAL LD-50 (RAT): 400 MG/KG. INHALATION LC-50: NOT AVAILABLE DERMAL LD-50: >1000 MG/KG (HIGHEST DOSE TESTED) SKIN IRRITAT ION: SLIGHT SKIN SENSITIZATION: SLIGHT EYE IRRITATION: MODERATE

Ecological:HIGH BIOCHEMICAL OXYGEN DEMAND, A POTENTIAL TO CAUSE OXYGEN DEPLETION IN AQUEOUS SYSTEMS, A HIGH POTENTIAL TO AFFECT SOME AQUATIC ORGANISMS, A MODERATE POTENTIAL TO AFFECT SECONDARY WASTE TREATMENT MI CROBIAL METABOLISM, A MODERATE POTENTIALTO AFFECT GERMINATION OF SOME PLANTS, A MODERATE POTENTIAL TO AFFECT GROWTH OF SOME PLANT, A HIGH POTENTIAL TO BIODEGRADE, A HIGH POTENTIAL TO PHOTOCHEMICALLY O R CHEMICALLY DEGRADE, A LOW POTENTIAL TO BIOC

ONCENTRATE. AFTER DILUTION WITH A LARGE AMOUNT OF WATER, FOLLOWED BY SECONDARY WASTE TREATMENT, THIS MATERIAL IS NOT EXPECTED TO CAUSE ADVERSE ENVIRONMENT AL EFFECTS.

Waste Disposal Methods:DISCHARGE, TREATMENT, OR DISPOSAL MAY BE SUBJECT TO NATIONAL, STATE, OR LOCAL LAWS. INCINERATE. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUE, FOLLOW LABEL WARNINGS EVEN AFTER CONTAINER IS EMPTIED.

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.

SARA Title III Information:CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OR TITLE III OF THE SUPERFUND AMENDM

ENTS 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

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