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EASTMAN KODAK COMPANY -- 190 2485, CONC, KODAK GBX FIXER AND REPLENISHER - 6525-01-152-7619

Product ID:190 2485, CONC, KODAK GBX FIXER AND REPLENISHER MSDS Date:10/26/2000 FSC:6525 NIIN:01-152-7619 Status Code:A **MSDS Number: CLDQR** === Responsible Party === Company Name: EASTMAN KODAK COMPANY Address:343 STATE STREET City:ROCHESTER State:NY ZIP:14650 Country:US Т nfo 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

Ingred Name:WATER CAS:7732-18-5 RTECS #:ZC0110000 Minumum % Wt:45. Maxumum % Wt:50. Other REC Li mits:NOT PROVIDED Code:F Code:F

Ingred Name: AMMONIUM THIOSULFATE CAS:7783-18-8 RTECS #:XN6465000 = Wt:39. Other REC Limits:NOT PROVIDED OSHA PEL:NOT PROVIDED ACGIH TLV:NOT PROVIDED Ingred Name:SODIUM BISULFITE CAS:7631-90-5 RTECS #:VZ2000000 Minumum % Wt:1. Maxumum % Wt:5. Other REC Limits:NOT PROVIDED ACGIH TLV:5 MG/M3 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS Ingred Name: AMMONIUM BISULFITE CAS:10192-30-0 RTECS #:WT3595000 = Wt:2. Other REC Limits:NOT PROVIDED **OSHA PEL:NOT PROVIDED** ACGIH TLV :NOT PROVIDED EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS Ingred Name: POTASSIUM ACETATE CAS:127-08-2 RTECS #:AJ3325000 Minumum % Wt:1. Maxumum % Wt:5. Other REC Limits:NOT PROVIDED **OSHA PEL:NOT PROVIDED** ACGIH TLV:NOT PROVIDED

Ingred Name:ALUMINUM SULFATE CAS:10043-01-3 RTECS #:BD1700000 Minumum % Wt:1. Maxumum % Wt:5. Other REC Limits:NOT PROVIDED OSHA PEL:NOT PROVIDED ACGIH TLV:NOT PROVIDED EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

LD50 LC50 Mixture:NOT PROVIDED

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EFFECTS OF EXPOSURE: INHALATION: EXPECTED TO BE A LOW HAZARD FOR USUAL INDUSTRIAL OR COMMERCIAL HANDLING BY TRAINED PERSONNEL. IN CONTACT WITH STRONG ACIDS OR IF HEATED, SULFITES MAY LIBERATE SULFUR D IOXIDE GAS. SULFUR DIOXIDE GAS IS IRRITATING TO THE RESPIRATORY TRACT. SOME ASTHMATICS OR HYPERSENSITIVE INDIVIDUALS MAY EXPERIENCE DIFFICULT BREATHING.

EYES: CAUSES IRRITATION. SKIN: CAUSES IRRITATIO N. THIS MATERIAL HAS A LOW POTENTIAL TO CAUSE ALLERGIC SKIN REACTIONS; HOWEVER, CASES OF HUMAN SKIN SENSITIZATION HAVE BEEN REPORTED. INGESTION: MAY BE HARMFUL IF SWALLOWED.

Explanation of Carcinogenicity:CARCINOGENICITY CLASSIFICATION (COMPONENTS PRESENT AT 0.1% OR MORE): - INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC): NONE - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH): NON E - NATIONAL TO

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

Effects of Overexposure:INHALATION: IN CONTACT WITH STRONG ACIDS OR IF HEATED, SULFITES MAY LIBERATE SULFUR DIOXIDE GAS. SULFUR DIOXIDE GAS IS IRRITATING TO THE RESPIRATORY TRACT. SOME ASTHMATICS OR HYPERSENSITIVE INDIVIDUAL S MAY EXPERIENCE DIFFICULT BREATHING. EYES: CAUSES IRRITATION. SKIN: CAUSES IRRITATION.

Medical Cond Aggravated by Exposure:SOME ASTHMATICS, HYPERSENSITIVE OR SU

LFITE-SENSITIVE INDIVIDUALS MAY EXPERIENCE DIFFICULT BREATHING, WHEEZING, CHEST TIGHTNESS, STOMACH UPSET, HIVES, FAINTNESS, WEAKNESS AND DIARRHEA.

First Aid:INHALATION: IF SYMPTOMATIC, MOVE TO FRESH AIR. TREAT SYMPTOMATICALLY. GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTEN TION IF SYMPTOMS OCCUR. SKIN: IMMEDIATELY FLUSH WIT

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PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. WASH CONTAMINATE D CLOTHING BEFORE REUSE. DESTROY OR THOROUGHLY CLEAN CONTAMINATED SHOES. INGESTION: DRINK 1-2 GLASSES OF WATER. SEEK MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

Flash Point:NONE Extinguishing Media:FLOOD WITH WATER. Fire Figh ting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. FIRE OR EXCESSIVE HEAT MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS.

Unusual Fire/Explosion Hazard: SOLUTION CONTAINS A STRONG REDUCING AGENT. DRIED PRODUCT RESIDUE CAN ACT AS A REDUCING AGENT.

Spill Release Procedures: FLUSH TO SEWER WITH LARGE AMOUNT OF WATER. OTHERWISE, ABSORB SPILL WITH VERMICULITE OR OTHER INERT MATERIAL, TH

EN PLACE IN A CONTAINER FOR CHEMICAL WASTE, CLEAN SURFACE THOROUGHLY TO REMOVE RESIDUAL C ONTAMINATION. COLLECT IN A NONCOMBUSTIBLE CONTAINER FOR PROMPT DISPOSAL. Neutralizing Agent:NOT PROVIDED

Handling and Storage Precautions: KEEP CONTAINER TIGHTLY CLOSED TO PREVENT THE LOSS OF WATER. KEEP AWAY FROM INCOMPATIBLE SUBSTANCES. DO NOT STORE OR SHIP TOGETHER WITH COMBUSTIBLE MATERIAL. STORE IN **ORIGINAL CONTAIN**

ER. REMOVE AND WAS H CONTAMINATED CLOTHING PROMPTLY.

Other Precautions: AVOID BREATHING MIST OR VAPOR. AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. KEEP AWAY FROM COMBUSTIBLE MATERIAL. KEEP FROM CONTACT WITH OXIDIZING MATERIALS, HIGHLY OXYGENATED OR HALOGENATED SOLVENTS. ORGANIC COMPOUNDS CONTAINING REDUCIB LE FUNCTIONAL GROUPS

Respiratory P

rotection: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 AND REACTIVITY SECTION. IF RESPI RATORS 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:WE

AR IMPERVIOUS GLOVES AND PROTECTIVE CLOTHING APPROPRIATE FOR RISK OF EXPOSURE Eye Protection: WEAR SAFETY GLASSES WITH SIDE SHIELDS (OR GOGGLES). Other Protective Equipment: EYE BATH, WASHING FACILITIES, SAFETY SHOWER Work Hygienic Practices:NOT PROVIDED Supplemental Safety and Health 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, CNS = CENTRAL NERVOUS SYSTEM, GI = GASTROI NTESTINAL. SCBA = SELF CONTAINED BREATHING APPARATUS. HCC:C3 NRC/State Lic Num:NOT RELEVANT Boiling Pt:>100.C, 212.F Melt/Freeze Pt:M.P/F.P Text:NOT PROVIDED Decomp Temp:Decomp Text:NOT PROVIDED Vapor Pres:68F: 24MBAR (18 MM HG) Vapor Density:0.6 Spec Gravity:1.297 pH:4.9 Viscosity:NOT PROVIDED Evaporation Rate & amp; Reference: NOT PROVIDED Solubility in Water:COMPLETE Appearance and Odor:COLORLESS LIQUID, AMMONIA ODOR Percen t Volatiles by Volume:48 WT Corrosion Rate:NOT PROVIDED

Stability Indicator/Materials to Avoid:YES
BASES, SODIUM HYPOCHLORITE (BLEACH), STRONG OXIDIZING AGENTS, COMBUSTIBLE MATERIAL, HALOGENATED MATERIALS, STRONG ACIDS. CONTACT WITH BASE LIBERATES FLAMMABLE MATERIAL.
Stability Condition to Avoid:NOT PROVIDED
Hazardous Decomposition Products:SULFUR DIOXIDE, AMMONIA, CHLORAMINE, OXIDES OF NITROGEN, OXIDES OF SULFUR. Toxicological Information:EFFECTS OF EXPOSURE: INHALATION: EXPECTED TO BE A LOW HAZARD FOR USUAL INDUSTRIAL OR COMMERCIAL HANDLING BY TRAINED PERSONNEL. IN CONTACT WITH STRONG ACIDS OR IF HEATED, SULFITES MAY LIBERATE SULFUR D IOXIDE GAS. SULFUR DIOXIDE GAS IS IRRITATING TO THE RESPIRATORY TRACT. SOME ASTHMATICS OR HYPERSENSITIVE INDIVIDUALS MAY EXPERIENCE DIFFICULT BREATHING. EYES: CAUSES IRRITATION. SK

IN: CAUSES IRRITATIO N. THIS MATERIAL HAS A LOW POTENTIAL TO CAUSE ALLERGIC SKIN REACTIONS; HOWEVER, CASES OF HUMAN SKIN SENSITIZATION HAVE BEEN REPORTED. INGESTION: MAY BE HARMFUL IF SWALLOWED.

Ecological:THE FOLLOWING PROPERTIES ARE ESTIMATED FROM THE COMPONENTS OF THE PREPARATIONS. POTENTIAL TOXICITY: FISH LC50 MG/L: >100. DAPHNID EC50 MG/L: >100. ALGAL IC50 MG/L: >100. ORGANICS READILY DEGRAD

ABLE (>70%): YES (7 DAYS). POTENTIAL

BIOACCUMULATION: LOG POW 100. A FTER DILUTION WITH A LARGE AMOUNT OF WATER, FOLLOWED BY SECONDARY WASTE TREATMENT, THIS MATERIAL IS NOT EXPECTED TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS.

Waste Disposal Methods:DISCHARGE, TREATMENT, OR DISPOSAL MAY BE SUBJECT TO NATIONAL, STATE, OR LOCAL LAWS. FLUSH TO SEWER WITH LARGE AMOUNT OF WATER. SINCE EMPTIED CONTAINERS RETAIN PRODU CT RESIDUE, FOLLOW

LABEL WARNINGS EV EN 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 FR IDAY.

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: AMMONIUM THIOSULFATE, AMMONI UM BISULFITE; AS SOURCES OF AQUEOUS AMMONIA.

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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