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

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

Product ID:190 2485, WKG SOL, KODAK GBX FIXER AND REPLENISHER

MSDS Date: 10/26/2000

FSC:6525

NIIN:01-152-7619 Status Code:A

MSDS Number: CLDQS === 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:WATER CAS:7732-18-5

RTECS #:ZC0110000 Minumum % Wt:85. Maxumum % Wt:90.

Other R

EC Limits:NOT PROVIDED Code:F

Ingred Name: AMMONIUM THIOSULFATE

CAS:7783-18-8 RTECS #:XN6465000 Minumum % Wt:5. Maxumum % Wt:10.

Other REC Limits:NOT PROVIDED

OSHA PEL:NOT PROVIDED ACGIH TLV:NOT PROVIDED

Ingred Name:SODIUM BISULFITE

CAS:7631-90-5 RTECS #:VZ2000000

< Wt:1.

Code:F

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:1.

Other REC Limits: NOT PROVIDED

OSHA PEL:NOT PROVIDE

D

ACGIH TLV:NOT PROVIDED

EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name: POTASSIUM ACETATE

CAS:127-08-2

RTECS #:AJ3325000

< Wt:1.

Other REC Limits:NOT PROVIDED

OSHA PEL:NOT PROVIDED ACGIH TLV:NOT PROVIDED

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 COMMERCI

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: NO SPECIFIC HAZARD KNOWN. MAY CAUSE TRAN SIENT IRRITATION. SKIN: THIS MATERIAL HAS LOW POTENTIAL TO CAUSE ALLERGIC SKIN REACTIONS; HOWEVER, CASES OF HUMAN SKIN SENSITIZATION HAVE BEEN REPORTED. INGESTI

ON: 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
TOXICOLOGY 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 SULFU

R DIOXIDE GAS. SULFUR DIOXIDE GAS IS IRRITATING TO THE RESPIRATORY TRACT. EYES: MAY CAUSE TRANSIENT IRRITATION.

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:INHALATION: IF SYMPTOMATIC, MOVE TO FRESH AIR. TREAT SYMPTOMAT

ICALLY. GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. EYES:
ANY MATERIAL THAT CONTACTS THE EYE SHOULD BE WASHED OUT IMMEDIATELY
WITH WATER. G ET MEDICAL ATTENTION IF SYMPTOMS OCCUR. SKIN: WASH
WITH SOAP AND WATER. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR.
INGESTION: DRINK 1-2 GLASSES OF WATER. SEEK MEDICAL ATTENTION.
NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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

Flash Point:NONE 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: SOLUTION CONTAINS A STRONG REDUCING AGENT. DRIED PRODUCT RESIDUE CAN ACT AS A REDUCING AGENT.

========= Accidental Release Measures =============

Spill Release Procedures:FLUSH TO SEWER WITH LARGE AMOUNT OF WATER. OTHERWISE, ABSORB SPI

LL WITH VERMICULITE OR OTHER INERT MATERIAL,
THEN PLACE IN A CONTAINER FOR CHEMICAL WASTE. CLEAN SURFACE
THOROUGHLY TO REMOVE RESIDUAL C ONTAMINATION.
Neutralizing Agent:NOT PROVIDED

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

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

Other Precautions: AVOID BREATHING MIST OR VAPOR. AVOID CONTACT WITH

EYES AND PROLONGED OR REPEATED CONTACT WITH SKIN. 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 AND REACTIVITY SECTION. IF RESPI RATORS ARE USED, A PROGRAM SHOULD BE INSTITUTED TO ASS

URE 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:FOR PROLONGED OR REPEATED SKIN CONTACT, IMPERVIOUS GLOVES SHOULD BE WORN.

Eye Protection:WEAR SAFETY GLASSES WITH SIDE SHIELDS (OR GOGGLES). Other Protective Equipment:EYE BATH, WASHING FACILITIES, SAFETY SHOWER. Work Hygienic Practices:IT IS A GOOD INDUSTRIAL HYGIENE PRACTICE T

0

MINIMIZE EYE CONTACT. IT IS A GOOD INDUSTRIAL HYGIENE PRACTICE TO MINIMIZE SKIN CONTACT.

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.

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

HCC:C3

NRC/State Lic Num:NOT REL

EVANT

Boiling Pt:100.

DAPHNID EC50 MG/L: >100. ALGAL IC50 MG/L: >100. ORGANICS READILY DEGRAD ABLE (>70%): YES (7 DAYS). POTENTIAL BIOACCUMULATION: LOG POW 100. AFT ER 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, S

TATE, OR LOCAL LAWS. FLUSH TO SEWER WITH LARGE AMOUNT OF WATER.

======== 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 FR IDAY.

SARA Title III Information:CHEMICAL(S) SUBJECT TO T HE 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

====== Other Information ============

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