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EASTMAN KODAK COMPANY -- 813 5048 3000 FIXER AND REPLENISHER, PART A 6750-01-363-8343

Product ID:813 5048 3000 FIXER AND REPLENISHER, PART A MSDS Date:02/25/1998 FSC:6750 NIIN:01-363-8343 MSDS Number: CHHVX === Responsible Party === Company Name: EASTMAN KODAK COMPANY Address:343 STATE STREET City:ROCHESTER State:NY ZIP:14650 Country:US Info Phone Num:716-477-3 194 MSDS :800- 242-2424 Emergency Phone Num:716-722-5151 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 Ingred

Ingred Name:WATER CAS:7732-18-5 RTECS #:ZC0110000 Fraction by Wt: 40-45% Other REC Limits:NONE RECOMMENDED

Ingred Name:AMMONIUM THIOSULFATE CAS:7783-18-8 RTECS #:XN6465000 Fraction by Wt: 40-45% Other REC Limits:NONE RECOMMENDED

Ingred Name:SODIUM ACETATE CAS:127-09-3 RTECS #:AJ4300010 Fraction by Wt: 5-10% Other REC Limits:NONE RECOMMENDED

Ingred Name:BORIC ACID CAS:10043-35-3 RTECS #:ED4550000 Fraction by Wt: 1-5% Other REC Limits:NONE RECOMMENDED OSHA PEL:10 MG BORATE S/M3 ACGIH TLV:5 MG BORATES/M3

Ingred Name:AMMONIUM SULFITE (CERCLA) CAS:10196-04-0 Fraction by Wt: 1-5% Other REC Limits:NONE RECOMMENDED EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:ACETIC ACID (CERCLA) CAS:64-19-7 RTECS #:AF1225000 Fraction by Wt: 1-5% Other REC Limits:NONE RECOMMENDED OSHA PEL:10 PPM ACGIH TLV:10 PPM/15 STEL; 9596 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:SODIUM BISULFITE (SASA III) (CERCLA) CAS:7631-90-5 RTECS #:VZ2000000 Fraction by Wt: < 1% Other REC Limits:NONE RECOMMENDED OSHA PEL:5 MG/M3 ACGIH TLV:5 MG/M3; 9596 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

LD50 LC50 Mixture: ORAL LD50 RAT > 2540 MG/KG Routes of Entry: Inhalation:NO Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: EXPECTED TO BE A LOW INHALATION HAZARD. MAY LIBERATE SULFUR DIOXIDE GAS WHICH IS IRRITATING TO **RESPIRATORY TRACT. MAY CAUSE** TRANSIENT EYE IRRITATION. MAY BE ABSORBED IN TOXIC AMOUNTS THROUGH DAMAGED S KIN. MAY BE HARMFUL IF SWALLOWED. Explanation of Carcinogenicity: THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS. Effects of Overexposure: RESPIRATORY TRACT IRRITATION, EYE IRRITATION, SKIN IRRITATION, DIFFICULT BREATHING, SKIN SENSITIZATION, CHEST TIGHTNESS, STOMACH UPSET, HIVES, FAINTNESS, WEAKNESS, DIARRHEA. BASED ON REP EATED-DOSE ING ESTION STUDIES IN ANIMALS, MAY CAUSE ADVERSE REPRODUCTIVE & DEVELOPMENTAL EFFECTS. Medical Cond Aggravated by Exposure:SOME ASTHMATICS OR SULFITE-SENSITIVE INDIVIDUALS MAY EXPERIENCE WHEEZING, CHEST TIGHTNESS, STOMACH UPSET, HIVES, FAINTNESS, WEAKNESS & DIARRHEA.

First Aid:INHALATION: IF SYMPTOMATIC, MOVE TO FRESH AIR. GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. EYES: ANY MATERIAL THAT CONTACTS

EYES SHOULD BE WASHED OUT IMEEDIATELY WITH WATER. GET MEDICAL ATTENTION IF SY MPTOMS OCCUR. SKIN: WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR. INGESTION: ONLY INDUCE VOMITING AT THE INSTRUCTION OF MEDICAL PERSONNEL. CALL PHYSICIAN OR POISON CONTROL ASAP.

Flash Point:NONFLAMMABLE Lower Limits:NOT GIVEN Upper Limits:NOT GIVEN Extinguishing Media:USE APPROPRIATE AGENT FOR ADJACENT FIRE. F ire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS & PROTECTIVE CLOTHING. FIRE OR EXCESSIVE HEAT MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS.

Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.

Spill Release Procedures: MAY REQUIRE NEUTRALIZATION. FLUSH TO SEWER WITH LARGE AMOUNTS OF WATER.OTHERWISE, ABSORB SILL W/VERMICULITE OR OTHER INERT MATL.THEN PLACE IN CNTNR FOR CHEMICAL WASTE.CLEA N

SURFACE THOROUGHLY TO REMOV E RESIDUAL CONTAMINATION. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

 Handling and Storage Precautions: AVOID BREATHING MIST OR VAPOR. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. USE WITH ADEQUATE VENTILATION. KEEP FROM CONTACT WITH OXIDIZING MATERIALS.
Other Precautions: KEEP CONTAINER TIGHTLY CLOSED. KEEP FROM CONTACT WITH INCOMPATIBLE SUBSTANCES.

======== Exposure Co ntrols/Personal Protection ==============

Respiratory Protection:NONE SHOULD BE NEEDED. A FULL-FACE POSITIVE-PRESSURE AIR-SUPPLIED RESPIRATOR MUST BE WORN IF HAZARDOUS DECOMPOSITION PRODUCTS ARE LIKELY TO BE RELEASED OR HAVE BEEN RELEASED.

Ventilation:GOOD GENERAL VENTILATION(TYICALLY 10AIR CHANGES/HR)SHOULD BE USED.VENTILATION RATES SHOULD BE MATCHED TO CONDITIONS. Protective Gloves:IMPERVIOUS GLOVES FOR RE/PROL CONTACT. Eye Protection:SAFETY GLASSES W/SIDE SHIELDS. Other Prote ctive Equipment:CHEMICAL RESISTANT CLOTHING AS NECESSARY TO

PREVENT SKIN CONTACT. AN EMERGENCY EYEWASH AND SHOWER SHOULD BE AVAILABLE.

Work Hygienic Practices:WASH HANDS THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. Supplemental Safety and Health KEY1: C3.

HCC:C1 Boiling Pt:B.P. Text:>212F,>100C

Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN Decomp Temp:Decomp Text:NOT GIVEN Va por Pres:18MM Vapor Density:0.6 Spec Gravity:1.32 pH:5.0 Evaporation Rate & amp; Reference:NOT GIVEN Solubility in Water:COMPLETE. Appearance and Odor:LIQUID, LIGHT YELLOW, SLIGHT SULFUR & ACETIC ACID ODOR. Percent Volatiles by Volume:40-45

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Stability Indicator/Materials to Avoid:YES

BASES, SODIUM HYPOCHLORITE (BLEACH), STRONG OXIDIZING AGENTS, STRONG ACIDS. CONTACT W/BASE LIBERATES FLAMM MATL. Stability Condition to Avo

id:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products: AMMONIA, NITROGEN OXIDES (NOX), SULFUR DIOXIDE, CHLORAMINE, CARBON MONOXIDE, CARBON DIOXIDE

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

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