

EASTMAN KODAK CO GOVERNMENT MARKETS CONTRACTS -- 199 7873,KODAK VERSA, 885 FIXER & REPL. PART A, (SEE SUPPL) -- 6750-01-353-4888

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

Product ID:199 7873,KODAK VERSA, 885 FIXER & REPL. PART A, (SEE SUPPL)

MSDS Date:02/24/2001

FSC:6750

NIIN:01-353-4888

Status Code:A

Kit Part:Y

MSDS Number: CLKCK

=== Responsible Party ===

Company Name:EASTMAN KODAK CO GOVERNMENT MARKETS
CONTRACTS

Address:343 STATE ST

City:ROCHESTER

State:NY

ZIP:14650-1115

Country:US

Info Phone Num:716-722-5151/(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

===== Composition/Information on Ingredients =====

Ingred Name:AMMONIUM THIOSULFATE

CAS:7783-18-8

RTECS #:XN6465000

Minumum % Wt:40.

Maxumum % Wt:45.

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Minumum % Wt:35.

Maxumum % Wt:40.

Ingred Name:SODIUM BISULFITE (SARA I I I) (CERCLA)

CAS:7631-90-5

RTECS #:VZ2000000

Minumum % Wt:1.

Maxumum % Wt:5.

ACGIH TLV:5 MG/M3

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:SODIUM ACETATE

CAS:127-09-3

OSHA PEL:10 PPM
ACGIH TLV:10 PPM
ACGIH STEL:15 PPM
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:SODIUM TETRABORATE, DECAHYDRATE
CAS:1303-96-4
RTECS #:VZ2275000
Minumum % Wt:1.
Maxumum % Wt:5.
ACGIH TLV:5 MG/M3

===== Hazards Identification =====

LD50 LC50 Mixture:ORAL LD50 (RAT): NOT GIVEN
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:INHALATION: EXPECTED
TO BE LOW HAZARD

FOR RECOMMENDED HANDLING. IN CONTACT WITH STRONG ACIDS OR IF
HEATED, SULFITES MAY LIBERATE SULFUR DIOXIDE GAS WHICH IS
IRRITATING TO RESPIRATORY TRACT. SOME ASTHMATICS OR HYPERSENSITIVE
INDIVIDUALS MAY EXPERIENCE DIFFICULT BREATHING. EYES: NO SPECIFIC
HAZARD KNOWN. MAY CAUSE IRRITATION. SKIN: MAY BE ABSORBED IN
TOXIC AMOUNTS THROUGH DAMAGED OR ABRADED SKIN. THIS MATERIAL HAS
LOW POTENTIAL TO CAUSE ALLERGIC SKIN REACTIONS; CASES OF HUMAN
SKIN

SENSITIZATION HAVE BEEN REPORTED. INGESTION: MAY BE HARMFUL
IF SWALLOWED. SOME ASTHMATICS OR SULFITE-SENSITIVE INDIVIDUALS MAY
HAVE ADVERSE REACTIONS.

Explanation of Carcinogenicity:CARCINOGENICITY CLASSIFICATION
(COMPONENTS PRESENT AT 0.1% OR MORE): IARC: BISULFITES (3)."THE
AGENT IS NOT CLASSIFIABLE AS TO ITS CARCINOGENICITY TO HUMANS."
ACGIH: SODIUM BISULFITE: NOT CLASSIFIABLE AS A HUMAN CARCINOGEN
(A4). NTP: NONE. OSHA: NONE.

Effects of Overexposure:INHALATION: RES
PIRATORY TRACT IRRITATION,
DIFFICULT BREATHING. EYES: TRANSIENT IRRITATION. SKIN: SKIN
SENSITIZATION. INGESTION: WHEEZING, CHEST TIGHTNESS, STOMACH UPSET,
HIVES, FAINTNESS, WEAKNESS, DIARRHEA.

Medical Cond Aggravated by Exposure:SOME ASTHMATICS OR
SULFITE-SENSITIVE INDIVIDUALS MAY EXPERIENCE DIFFICULT BREATHING,
WHEEZING, CHEST TIGHTNESS, STOMACH UPSET, HIVES, FAINTNESS,
WEAKNESS, DIARRHEA.

===== First Aid Measures =====

First Aid

:INHALATION: IF SYMPTOMATIC, MOVE TO FRESH AIR. TREAT SYMPTOMATICALLY. GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. EYES: FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR. SKIN: WASH WITH SOAP AND WATER. GET MEDICAL IF SYMPTOMS OCCUR. WASH CONTAMINATED CLOTHING BEFORE REUSE. INGESTION: ONLY INDUCE VOMITING AT THE INSTRUCTION OF MEDICAL PERSONNEL. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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

Flash Point:NONE

Extinguishing Media:FLOOD WITH WATER.

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. FIRE OR EXCESSIVE HEAT MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS, CARBON DIOXIDE, CARBON MONOXIDE, OXIDES OF NITROGEN, OXIDES OF SULFUR.

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 AMOUNTS OF WATER. OTHERWISE, ABSORB SPILL WITH VERMICULITE OR OTHER INERT MATERIAL, THEN PLACE IN A CONTAINER FOR CHEMICAL WASTE. CLEAN SURFACE THOROUGHLY TO REMOVE RESIDUAL CONTAMINATION. COLLECT IN A NONCOMBUSTIBLE CONTAINER FOR PROMPT DISPOSAL.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:KEEP CONTAINER TIGHTLY CLOSED TO PREVENT LOSS OF WATER. KEEP AWAY FROM INCOMPATIBLE SUBSTANCES (SEE INCOMPATIBILITY SECTION). DO NOT STORE OR SHIP TOGETHER WITH COMBUSTIBLE MATERIAL. STORE IN ORIGINAL CONTAINER. AVOID BREATHING MIST OR VAPOR. AVOID CONTACT WITH EYES, SKIN, AND CLOTHING.

Other Precautions:USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. KEEP AWAY FROM COMBUSTIBLE MATERIAL. REMOVE

VE AND WASH

CONTAMINATED CLOTHING PROMPTLY. KEEP FROM CONTACT WITH OXIDIZING MATERIALS, HIGHLY OXYGENATED OR HALOGENATED SOLVENTS, ORGANIC COMPOUNDS CONTAINING REDUCIBLE FUNCTIONAL GROUPS.

===== 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. I

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 AND PROTECTIVE CLOTHING APPROPRIATE FOR RISK OF EXPOSURE

Eye Protection:WEAR SAFETY GLASSES WITH SIDE SHIELDS (OR GOGGLES).

Other Protective Equipment:PROVIDE EYE BATH, WASHING FACILITIES, SAFETY

SHOWER.USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO MAINTAIN AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS.

Work Hygienic Practices:IT IS A GOOD INDUSTRIAL HYGIENE PRACTICE TO MINIMIZE EYE CONTACT. IT IS A GOOD INDUSTRIAL HYGIENE PRACTICE TO MINIMIZE SKIN CONTACT.

Supplemental Safety and Health

THIS ENTRY DESCRIBES "PART A" , MSDS SERIAL NUMBER (CLKCK) IN THE "KODAK VERSAMAT 885 FIXER AND REPLENISHER KIT", A THREE PART KIT.

SEE THIS SAME NSN, MSDS SERIAL NUMBER (CLJZB) FOR REPLENISHER PART OF KIT AND MSDS SERIAL NUMBER (CLKCX) FOR PART B OF KIT.

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

HCC:C1

Boiling Pt:>100.C, 212.F

Vapor Pres:24 MBAR (18 MM HG) @ 68F

Vapor Density:0.6(AIR =1

Spec Gravity:1.33 (WATER=1)

pH:5.3

Viscosity:NOT GIVEN

Evaporation Rate & Reference:NOT GIVEN

Solubility in Water:COMPLETE

Appearance and Odor:COLORLESS LIQUID, VINEGAR ODOR.

Percent Volatiles by V

Volume:40-45 WT

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

Stability Indicator/Materials to Avoid: YES

STRONG OXIDIZING AGENTS, STRONG ACIDS, BASES, SODIUM HYPOCHLORITE (BLEACH), COMBUSTIBLE MATERIAL, HALOGENATED MATERIALS. CONTACT WITH BASE LIBERATES FLAMMABLE MATERIAL.

Stability Condition to Avoid: STABLE

Hazardous Decomposition Products: CARBON DIOXIDE, CARBON MONOXIDE, OXIDES OF NITROGEN, OXIDES OF SULFUR. AMMONIA, SULFUR DIOXIDE, CHLORAMINE.

=====

===== Toxicological Information =====

Toxicological Information: EFFECTS OF EXPOSURE: GENERAL: CONTAINS SODIUM TETRABORATE. BASED ON REPEATED-DOSE INGESTION STUDIES IN ANIMALS, MAY CAUSE ADVERSE REPRODUCTIVE EFFECTS. HOWEVER, THE DOSES ADMINISTERED WERE MANY TIMES THOSE TO WHICH HUMANS WOULD NORMALLY BE EXPOSED. HMIS HAZARD RATINGS: HEALTH: 0; FLAMMABILITY: 1; REACTIVITY: 0; PERSONAL PROTECTION: B. NFPA HAZARD RATINGS: HEALTH: 0; FLAMMABILITY: 1; REACTIVITY (STABILITY): 0.

===== Ecological Information =====

Ecological: THE FOLLOWING PROPERTIES ARE ESTIMATED FROM THE COMPONENTS OF THE PREPARATIONS. POTENTIAL TOXICITY: FISH, LC50: >100 MG/L; DAPHNID, EC50: >100 MG/L; ALGAL, IC50: >100 MG/L. ORGANICS READILY DEGRADABLE (>70%): YES (7 DAYS). POTENTIAL BIOACCUMULATION: LOG POW 100 MG/L.

===== Disposal Considerations =====

Waste Disposal Methods: DISCHARGE, TREATMENT, OR DISPOSAL MAY BE SUBJECT TO NATIONAL, STATE, OR LOCAL LAWS. FLUSH TO SEWER WITH LARGE AMOUNTS OF WATER. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUE, FOLLOW LABEL WARNINGS EVEN AFTER CONTAINER IS EMPTIED

===== MSDS Transport Information =====

Transport Information: TRANSPORTATION PER KODAK FOR THREE PART KIT: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (ALUMINUM SULFATE), 8, UN 3264, III. TRANSPORTATION FOR THIS ITEM ALONE: NOT R

REGULATED
PER DSCR VBA.

===== Regulatory Information =====

SARA Title III Information:CHEMICALS 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: NONE.

State Regulatory Information:MATERIALS KNOWN TO THE STATE OF CALIFORNIA
TO CAUSE CANCER: NONE. MATERIALS KNOWN TO THE STATE OF CALIFORNIA
TO CAUSE ADVERSE REPRODUCTIVE EFFECTS: NONE.

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

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.