

EASTMAN KODAK COMPANY -- 882 4690,KODAK FLEXICOLOR SM TANK BLEACH/C-41SM --  
6750-01-443-3337

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

Product ID:882 4690,KODAK FLEXICOLOR SM TANK BLEACH/C-41SM

MSDS Date:09/13/2000

FSC:6750

NIIN:01-443-3337

MSDS Number: CKSQN

=== Responsible Party ===

Company Name:EASTMAN KODAK COMPANY

Address:343 STATE STREET

City:ROCHESTER

State:NY

ZIP:14650

Country:US

Info Phone Num:

716-722-5151/(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

Contract Num:SP0500-96-D-9413-M364

CAGE:19139

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

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Minumum % Wt:55.

Maxumum % Wt:

60.  
Other REC Limits:NOT PROVIDED  
Code:F  
Code:F

Ingred Name:FERRIC AMMONIUM PROPYLENEDIAMINETETRAACETIC ACID  
CAS:111687-36-6  
Minumum % Wt:10.  
Maxumum % Wt:15.  
Other REC Limits:NOT PROVIDED  
OSHA PEL:NOT PROVIDED  
ACGIH TLV:NOT PROVIDED

Ingred Name:AMMONIUM NITRATE  
CAS:6484-52-2  
RTECS #:BR9050000  
= Wt:12.  
Other REC Limits:NOT PROVIDED  
OSHA PEL:NOT PROVIDED  
ACGIH TLV:NOT PROVIDED

Ingred Name:AMMONIUM BROMIDE  
CAS:12124-97-9  
RTECS #:BO9155000  
= Wt:9.  
Other REC Limits:NOT PROVIDED  
OSHA PEL:NOT PROVI  
DED  
ACGIH TLV:NOT PROVIDED

Ingred Name:ACETIC ACID  
CAS:64-19-7  
RTECS #:AF1225000  
Minumum % Wt:1.  
Maxumum % Wt:5.  
Other REC Limits:NOT PROVIDED  
OSHA PEL:25 MG/M3;10 PPM  
ACGIH TLV:25 MG/M3;10 PPM  
ACGIH STEL:37 MG/M3;15 PPM  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:1,3-DIAMINO-2-PROPANOLTETRAACETIC ACID  
CAS:3148-72-9  
Minumum % Wt:1.  
Maxumum % Wt:5.  
Other REC Limits:NOT PROVIDED  
OSHA PEL:NOT PROVIDED  
ACGIH TLV:NOT PROVIDED

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

=====

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 RECOMMENDED HANDLING. EYES: CAUSES IRRITATION. HOWEVER, IMMEDIATE FLUSHING OF THE EYES WITH WATER WILL MINIMIZE ANY IRRITATIVE EFFECT. SKIN: CAUSES IRRITATION. HARMFUL IF ABSORBED THROUGH SKIN. INGESTION: 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): NONE - NATIONAL TOXICOLOGY PROGRAM (NTP): NONE - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA): NONE

Effects of Overexposure:EYES: CAUSES IRRITATION. SKIN: CAUSES IRRITATION.

Medical Cond Aggravated by Exposure:NOT PROVIDED

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

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 ATTENTION IF SYMPTOMS OCCUR. SKIN: IMMEDIATELY REMOVE CONTAMINATED CLOTHING AND SHOES AND WASH WITH SOAP AND PLENTY OF WATER. WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR. WASH CONTAMINATED CLOTHING BEFORE REUSE. INGESTION: ONLY INDUCE VOMITING AT THE INSTRUCTION OF MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

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

Flash Point:NONE

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE (CO2), DRY CHEMICAL, ALCOHOL FOAM

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. FIRE OR EXCESSIVE HEAT MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS. USE WATER

SPRAY TO KEEP FIRE-EXPOSED  
CONTAINERS COOL.

Unusual Fire/Explosion Hazard:SOLUTION CONTAINS A STRONG OXIDIZER.  
DRIED PRODUCT RESIDUE CAN ACT AS AN OXIDIZER. ELEVATED TEMPERATURE  
CAN CAUSE DECOMPOSITION.

===== 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. FLUSH SPILL AREA WITH  
WATER SPRAY.  
Neutralizing Agent:NOT PROVIDED

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

Handling and Storage Precautions:DO NOT STORE/SHIP TOGETHER WITH  
COMBUSTIBLE MATERIAL. STORE IN ORIGINAL CONTAINER. KEEP CONTAINER  
TIGHTLY CLOSED TO PREVENT LOSS OF WATER. KEEP AWAY FROM  
INCOMPATIBLE SUBSTANCES. KEEP AWAY FROM COMBUSTIBLE MATERIAL.  
KEEP AWAY FROM HEAT. EXERCISE CAUTION IN HEATING, ESPECIALLY IN A  
CLOSED CONTAINER.  
Other Precautions:AVOID BREATHING MIST OR VAPOR. AVOID CONTACT WITH  
EYES, SKIN, AND CLOTHING. USE WITH ADEQUATE VENTILATION. WASH  
THOROUGHLY AFTER HANDLING. REMOVE AND WASH CONTAMINATED CLOTHING  
PROMPTLY.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:IF ENGINEERING CONTROLS DO NOT MAINTAIN AIRBORNE  
CONCENTRATIONS BELOW EXPOSURE LIMITS, AN APPROVED RESPIRATOR MUST  
BE WORN. RESPIRATOR TYPE: FULL-FACE ORGANIC VAPOR CARTRIDGE: IF  
HAZARDOUS DECOMPOSITION PRODUCTS ARE LIKELY TO BE/HAVE BEEN  
RELEASED. A FULL-FACE POSITIVE-PRESSURE AIR-SUPPLIED NEEDED. 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:EYE BATH, WASHING FACILITIES, SAFETY SHOWER

Work Hygienic Practices:NOT PROVIDED

Supplemental Safety and Health

SUPPLEMENTARY LOCAL EXHAUST VENTILATION, CLOSED SYSTEMS, OR RESPIRATORY PROTECTION MAY BE NEEDED IN SPECIAL CIRCUMSTANCES SUCH AS POORLY VENTILATED SPACES, EVAPORATION FROM LARGE SURFACES, SPRAYING, H

EATING, ETC. N/A = NOT APPLICABLE. N/P = NOT PROVIDED. N/R = NOT

RELEVANT. N/D = NOT DETERMINED. N/E = NOT ESTABLISHED.

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

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:>215.C, 419.F

Vapor Pres:(68F): 23 MBAR (18 MM HG)

Vapor Density:0.6

Spec Gravity:1.17

pH:4.5

Viscosity:NOT PROVIDED

Evaporation Rate & Reference:NOT PROVIDED

Solubility in Water:COMPLETE

Appearance and Odor:GREEN - BROWN LIQUID. ODO

R: SLIGHT ACETIC ACID

Percent Volatiles by Volume:55-60 WT

Corrosion Rate:NOT PROVIDED

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

Stability Indicator/Materials to Avoid:YES

MATERIAL CAN REACT VIOLENTLY WITH COMBUSTIBLE MATERIAL, STRONG REDUCING AGENTS. BASES, SODIUM HYPOCHLORITE (BLEACH).

Stability Condition to Avoid:STABLE. SAFE HANDLING TEMPERATURES ARE DEPENDENT ON SPECIFIC CONDITIONS OF USE AND ARE TYPICALLY SUBSTANTIALLY BELOW THE ONSET TEMPERATURE. CO

NSULT YOUR TECHNICAL SAFETY EXPERTS.

Hazardous Decomposition Products:AMMONIA, CHLORAMINE, HYDROGEN BROMIDE, CARBON DIOXIDE, CARBON MONOXIDE, OXIDES OF NITROGEN

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

Toxicological Information:CONTAINS: FERRIC AMMONIUM

PROPYLENEDIAMINETETRAACETIC ACID (111687-36-6). EXPOSURE TO HIGH CONCENTRATIONS MAY CAUSE INCREASED URINARY EXCRETION OF ZINC AND CALCIUM. THIS COMPOUND CAN CHELATE METALS AND MAY ALTER

C

ALCIUM AND OTHER CATION BALANCES. CONTAINS:

1,3-DIAMINO-2-PROPANOLTETRAACETIC ACID (003148-72-9). BASED ON ANIMAL DATA THIS MATERIAL CAN PRODUCE METHEMOGLOBIN WHICH, IN SUFFICIENT CONCENTRATION, CAUSES CYANOSIS, A BLUE-GRAY DISCOLORATION OF THE SKIN AND LIPS CAUSED BY A REDUCED ABILITY OF THE BLOOD TO CARRY OXYGEN. SEE NOTE TO PHYSICIANS IN THE FIRST AID SECTION.

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

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: 10-100. ORGANICS READILY DEGRADABLE (>70%): YES (14 DAYS). POTENTIAL BIOACCUMULATION: LOG POW 100.

=====  
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: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 .

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

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: NITRATE COMPOUNDS (WATER DIS SOLCIABLE), (AMMONIUM NITRATE); AMMONIUM BROMIDE, AMMONIUM NITRATE 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 =====

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.