

EASTMAN KODAK COMPANY -- 192 7698, PT C, KODAK FLEXICOLOR DEVELOPER --  
6750-01-050-7789

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

Product ID:192 7698, PT C, KODAK FLEXICOLOR DEVELOPER

MSDS Date:07/26/2000

FSC:6750

NIIN:01-050-7789

Status Code:A

Kit Part:Y

MSDS Number: CLDNB

=== 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

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

Contra

t Num:SP0500-96-D-9413M387  
CAGE:5K871

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

Ingred Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Minumum % Wt:70.  
Maxumum % Wt:75.  
Other REC Limits:NOT PROVIDED  
Code:F  
Code:F

Ingred Name:4-(N-ETHYL-N-2-HYDROXYETHYL)-2-METHYLPHENYLENEDIAMINE  
SULFATE  
CAS:25646-77-9  
RTECS #:KJ6477000  
Minumum % Wt:25.  
Maxumum % Wt:30.  
Other REC Limits:0.1 MG/M3 (MFR)  
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  
OSHA PEL:NOT PROVIDED  
ACGIH TLV:5 MG/M3  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

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

LD50 LC50 Mixture:ORAL LD-50 (MALE RAT): 25-50 MG/KG  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:EFFECTS OF EXPOSURE: CONTAINS  
4-(N-ETHYL-N-2-HYDROXYETHYL)-2-METHYLPHENYLENEDIAMINE SULFATE. MAY  
CAUSE KIDNEY DAMA

GE BASED ON ANIMAL DATA. INHALATION: MAY BE HARMFUL IF INHALED. LIBERATES SULFUR DIOXIDE GAS WHICH CAN CAUSE IRRITATION TO THE RESPIRATORY TRACT. SOME ASTHMATICS OR HYPERSENSITIVE INDIVIDUALS MAY EXPERIENCE DIFFICULT BREATHING. EYES: CAUSES IRRITATION. VAPOR IRRITATING. SKIN: CAUSES IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION BASED ON HUMAN EXPERIENCE. INGESTION: HARMFUL IF SWALLOWED. MAY CAUSE KIDNEY DAMAGE BASED ON ANIMAL DATA. MAY CAUSE IRRITATION OF THE GAS

GASTROINTESTINAL TRACT.

Explanation of Carcinogenicity:INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC): NONE - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH): SODIUM BISULFITE, A4, NOT CLASSIFIABLE AS A HUMAN CARCINOGEN; SULFUR DIOXIDE, A4, NOT CLASSIFIABLE AS A HUMAN CARCINOGEN. - NATIONAL TOXICOLOGY PROGRAM (NTP): NONE - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA): NONE

Effects of Overexposure:INHALATION: LIBERATES SULFUR DIOXIDE GAS WHICH

CAN CAUSE IRRITATION TO THE RESPIRATORY TRACT. EYES: CAUSES IRRITATION. VAPOR IRRITATING. SKIN: CAUSES IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION BASED ON HUMAN EXPERIENCE. MAY CAUSE IRRITATION OF THE GASTROINTESTINAL TRACT.

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 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. SKIN: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, REMOVING CONTAMINATED CLOTHING AND SHOES. WASH CONTAMINATED CLOTHING BEFORE REUSE. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR. DESTROY OR THOROUGH

LY CLEAN CONTAMINATED SHOES.

INGESTION: INDUCE VOMITING AS DIRECTED BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

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

Flash Point:NONFLAMMABLE

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

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. FIRE OR E

EXCESSIVE HEAT MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS. USE WATER SPRAY TO KEEP FIRE-EXPOSED CONTAINERS COOL.

Unusual Fire/Explosion Hazard:ELEVATED TEMPERATURE CAN CAUSE DECOMPOSITION.

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

Spill Release Procedures:FLUSH TO SEWER WITH LARGE AMOUNT 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.

Neutralizing Agent:NOT PROVIDED

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

Handling and Storage Precautions:KEEP CONTAINER CLOSED. STORE IN A COOL PLACE. KEEP FROM CONTACT WITH OXIDIZING MATERIALS. KEEP AWAY FROM HEAT.

Other Precautions:DO NOT GET IN EYES, ON SKIN, ON CLOTHING. AVOID BREATHING MIST OR VAPOR AT CONCENTRATIONS GREATER THAN THE EXPOSURE LIMITS. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING.

=====

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

Respiratory Protection:IF ENGINEERING CONTROLS DO NOT MAINTAIN AIRBORNE CONCENTRATIONS BELOW RECOMMENDED EXPOSURE LIMITS, AN APPROVED RESPIRATOR MUST BE WORN. RESPIRATOR TYPE: ACID GAS. 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: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.

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

HCC:C2  
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: 24 MBAR(18 MM HG)  
Vapor Density:0.6  
Spec Gravity:1.10  
pH:2.1  
Viscosity:NOT PROVIDED  
Evaporation Rate & Reference:NOT PROVIDED  
Solubility in Water:COMPLETE  
Appearance and Odor:REDDISH-BROWN LIQUID, SULFUR  
DIOXIDE ODOR.  
Percent Volatiles by Volume:70-75 WT  
Corrosion Rate:NOT PROVIDED

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

Stability Indicator/Materials to Avoid:YES  
STRONG OXIDIZING AGENTS.  
Stability Condition to Avoid:STABLE; MATERIALS CONTAINING SIMILAR  
STRUCTURAL GROUPS CAN DECOMPOSE IF HEATED ABOVE 172C (342F).  
Hazardous Decomposition Products:CARBON DIOXIDE, CARBON MONOXIDE,  
OXIDES OF NITROGEN, OXIDES OF SULFUR.

===== Toxicological Informa  
tion =====

Toxicological Information:DATA FOR  
4-(N-ETHYL-N-2-HYDROXYETHYL)-2-METHYLPHENYLENEDIAMINE SULFATE. ORAL  
LD-50 (MALE RAT): 25-50 MG/KG (TARGET ORGAN EFFECTS: KIDNEY) ORAL  
LD-50 (FEMALE RAT): 30 MG/KG (TARGET ORGAN EFFECTS: KIDN EY) ORAL  
LD-50 (MOUSE): 141 MG/KG (TARGET ORGAN EFFECTS: KIDNEY) DERMAL  
LD-50: >2000 MG/KG SKIN IRRITATION: MODERATE REPEATED SKIN  
APPLICATION: MODERATE IRRITATION SKIN SENSITIZATION: MODERATE TO  
ST RONG SKIN SENSITI

ZATION (HUMAN): POSITIVE EYE IRRITATION  
(UNWASHED EYES): MODERATE. INTRAPERITONEAL INJECTION STUDY LD-50  
(RAT) 10-25 MG/KG INTRAPERITONEAL INJECTION STUDY LD-50 (MOUSE)  
10-25 MG/KG

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

Ecological:THE FOLLOWING PROPERTIES ARE ESTIMATED FROM THE COMPONENTS  
OF THE PREPARATIONS. POTENTIAL TOXICITY: FISH LC50 MG/L: < 1.  
DAPHNID EC50 MG/L: 1-10. ALGAL IC50 MG/L: 10-100. ORGANICS  
READILY DEGRA DABLE (>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.

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

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 PRODUCT RESIDUE,  
FOLLOW  
LABEL WARNINGS EV EN 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 REPORT  
ING  
REQUIREMENTS OF SECTION 313 OR TITLE III OF THE SUPERFUND  
AMENDMENTS AND REAUTHORIZATION ACT (SARA) OF 1986 AND 40 CFR  
PART 372: NONE

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.