

EASTMAN KODAK COMPANY -- 818 3428,FLEXICOLOR AR DEVELOPER REPLENISHER PART C --
6750-01-285-1765

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

Product ID:818 3428,FLEXICOLOR AR DEVELOPER REPLENISHER PART C

MSDS Date:07/24/2000

FSC:6750

NIIN:01-285-1765

Status Code:A

Kit Part:Y

MSDS Number: CKTGD

=== 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

CAGE:19139

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

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Minumum % Wt:50.

Maxumum % Wt:55

Other REC Limits:NOT PROVIDED

Code:F

Code:F

Ingred Name:4-(N-ETHYL-N-2-HYDROXYETHYL)-2-METHYLPHENYLENEDIAMINE
SULFATE

CAS:25646-77-9

Code:F

RTECS #:KJ6477000

Minumum % Wt:45.

Maxumum % Wt:50.

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:5 PPM (SO2)

ACGIH TLV:5 MG/M3

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

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==== Hazards Identification =====

LD50 LC50 Mixture:NOT PROVIDED

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 DAMAGE BASED ON ANIMAL DATA. INHALATION: LIBERATES
SULFUR DIOXIDE GAS WHICH CAN CAUSE IRRITATION TO THE RESPIRATORY
TRACT. SOME ASTHMATICS OR HYPERSENSITIVE INDIVIDUALS MAY EXPERIENCE
DIFFICULT BREAT

HING. EYES: CAUSES IRRITATION. SKIN: CAUSES

IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. INGESTION: MAY BE
FATAL IF SWALLOWED. MAY CAUSE IRRITATION OF THE GASTROINTESTINAL
TRACT. SOME ASTHMATICS OR SULFITE-SENSITIVE INDIVIDUALS MAY
EXPERIENCE WHEEZING, CHEST TIGHTNESS, STOMACH UPSET, HIVES ,
FAINTNESS, WEAKNESS AND DIARRHEA.

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: INHALATION: LIBERATES SULFUR DIOXIDE GAS WHICH CAN CAUSE IRRITATION TO THE RESPIRATORY TRACT. EYES: CAUSES IRRITATION. SKIN: CAUSES IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. INGESTION: MAY CAUSE IRRITATION OF THE GASTROINTESTINAL TRACT.

Medical Cond Ag

gravated 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 MED

ICAL ATTENTION. SKIN: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. WASH CONTAMINATED CLOTHING BEFORE REUSE. DESTROY OR THOROUGHLY CLEAN CONTAMINATED SHOES. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR. 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: NONE

Extinguishing Media: WATER, 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: ELEVATED TEMPERATURE CAN CAUSE DECOMPOSITION.

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

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Spill Release Procedures:PREVENT RUNOFF FROM ENTERING DRAINS, SEWERS, OR STREAMS. ABSORB SPILL WITH VERMICULITE OR OTHER INERT MATERIAL, THEN PLACE IN A CONTAINER FOR CHEMICAL WASTE.

Neutralizing Agent:NOT PROVIDED

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

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

AUTON IF

HEATING, ESPECIALLY IN A CLOSED CONTAINER.

Other Precautions:AVOID BREATHING MIST OR VAPOR AT CONCENTRATIONS GREATER THAN THE EXPOSURE LIMITS. AVOID CONTACT WITH EYES AND PROLONGED OR REPEATED CONTACT WITH SKIN. USE ONLY 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 APPROPRIATE FOR RISK OF EXPOSURE.

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

Other Protective

Equipment:EYE BATH, SAFETY SHOWER, WASHING FACILITIES.

WEAR PROTECTIVE CLOTHING APPROPRIATE FOR RISK OF EXPOSURE.

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, HEATING, ETC.

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

HCC:C2

NRC/S

tate Lic Num:NOT RELEVANT
Boiling Pt:>100.C, 212.F
Melt/Freeze Pt:M.P/F.P Text:NOT PROVIDED
Decomp Temp:>170.C, 338.F
Vapor Pres:18.0 MM HG @ 68F
Vapor Density:0.6
Spec Gravity:1.19
pH:2.1
Viscosity:NOT PROVIDED
Evaporation Rate & Reference:NEGLIGIBLE
Solubility in Water:COMPLETE
Appearance and Odor:YELLOW LIQUID, STRONG SULFUR DIOXIDE ODOR
Percent Volatiles by Volume:50-60 BY WT
Corrosion Rate:NOT PROVIDED

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

Stability Indic

ator/Materials to Avoid:YES

STRONG BASES, STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:STABLE; HOWEVER, MATERIAL CAN DECOMPOSE
ABOVE 170C (338F). AVOID TEMPERATURES ABOVE 70C (158F).

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

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

Toxicological Information:DATA FOR

4-(N-ETHYL-N-2-HYDROXYETHYL)-2-METHYLPHENYLENEDIAMINE SULFATE.

ACUTE TOXICITY DATA:

ORAL LD50 (MALE RAT): 25-50 MG/KG (TARGET

ORGAN EFFECTS: KIDNEY). ORAL LD50 (FEMALE RAT): 30 MG/KG (TARGET

ORGAN EFFECTS: KIDNEY). ORAL LD50 (MOUSE): 141 MG/KG (TARGET ORGAN

EFFECTS: KIDNEY). DERMAL LD50: > 2000 MG/KG. SKIN IRRITATION:

MODERATE. REPEATED SKIN APPLICATION: MODERATE IRRITATION. SKIN

SENSITI ZATION: MODERATE TO STRONG. SKIN SENSITIZATION (HUMAN):

POSITIVE. EYE IRRITATION (UNWASHED EYES): MODERATE. EYE IRRITATION

(WASHED EYES): SLIGHT. INHALATION STUDY

(164 MG/M3, 6 HOURS, RAT):

0/10 DIED.

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

Ecological:THIS MATERIAL IS A STRONGLY ACIDIC AQUEOUS SOLUTION AND
EXPECTED TO HAVE THE FOLLOWING PROPERTIES: A LOW BIOCHEMICAL OXYGEN
DEMAND, A LITTLE POTENTIAL TO CAUSE OXYGEN DEPLETION IN AQUEOUS
SYSTEMS, A HIGH POTENTIAL TO AFFECT SECONDARY WASTE TREATMENT
MICROBIAL METABOLISM, A MODERATE POTENTIAL TO AFFECT GERMINATION
AND/OR EARLY GROWTH OF SOME PLANTS, A LO

W POTENTIAL TO PERSIST IN THE ENVIRONMENT, A LOW POTENTIAL TO BIOCONCENTRATE. AFTER 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:CONTRACT WITH A LICENSED CHEMICAL DISPOSAL AGENCY.

===== 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 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) OF 1986 AND 40 CFR PART 372: NONE.

Federal Regulator

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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