

EASTMAN KODAK CO GOVERNMENT MARKETS CONTRACTS -- 139 7215,PT C,KODAK INDUSTREX
DEVELOPER REPLENISHER -- 6750-01-353-4889

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

Product ID:139 7215,PT C,KODAK INDUSTREX DEVELOPER REPLENISHER
MSDS Date:04/08/2001
FSC:6750
NIIN:01-353-4889
Status Code:A
Kit Part:Y
MSDS Number: CLKVQ
=== Responsible Party ===
Company Name:EASTMAN KODAK CO GOVERNMENT MARKETS CONTRACTS
Address:343 STATE ST
City:ROCHESTER
State:NY
ZIP:14650-1115
Country:U
S
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
Contract Num:SP0500-96D-9413-N293
CAGE:19139

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

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000
Minumum % Wt:65.
Maxumum % Wt:70.

Ingred N

ame:GLUTARALDEHYDE BIS(SODIUM BISULFITE)

CAS:7420-89-5

Minumum % Wt:20.

Maxumum % Wt:25.

Ingred Name:GLUTARALDEHYDE

CAS:111-30-8

RTECS #:MA2450000

Minumum % Wt:10.

Maxumum % Wt:15.

ACGIH STEL:C0.82 MG/M3;C0.2 PPM

Ingred Name:ACETIC ACID

CAS:64-19-7

RTECS #:AF1225000

< Wt:1.

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

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

LD50 LC50 Mixture:ORAL LD-50

(MALE RAT): 476 MG/KG

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:INHALATION: VAPOR IRRITATING. ALTHOUGH IT IS KNOWN THAT GLUTARALDEHYDE IS A RESPIRATORY TRACT IRRITANT AND MAY AGGRAVATE PRE-EXISTING ASTHMATIC DISORDERS, THE SUPPORTING DATA FOR RESPIRATORY SENSITIZA TION ARE LESS CONCLUSIVE. EYES: CAUSES BURNS. VAPOR IRRITATING. HOWEVER, IMMEDIATE FLUSHING OF THE EYES WITH WATER

WILL MINIMIZE ANY IRRITATIVE EFFECT. SKIN: CAUSES IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. INGESTION: HARMFUL IF SWALLOWED. MAY CAUSE IRRITATION OF THE GASTROINTESTINAL TRACT.

Explanation of Carcinogenicity:INTL AGENCY FOR RESEARCH ON CANCER (IARC): HYDROQUINONE, GROUP 3; NOT CLASSIFIABLE. AMERICAN CONFERENCE OF GOVTL INDUSTRIAL HYGIENISTS (ACGIH): GLUTARALDEHYDE, A4; NOT CLASSIFIABLE AS A HUMAN CARCINOGEN. HYDROQUINONE, A3; CONFIRMED ANIMAL CARCINOGEN W/UNKNOWN R

ELEVANCE TO HUMANS. NATL

TOXICOLOGY PROGRAM (NTP): NONE - OCCUPATION SAFETY/HEALTH ADMIN

OSHA: NONE

Effects of Overexposure:INHALATION: VAPOR IRRITATING. ALTHOUGH IT IS KNOWN THAT GLUTARALDEHYDE IS A RESPIRATORY TRACT IRRITANT AND MAY AGGRAVATE PRE-EXISTING ASTHMATIC DISORDERS, THE SUPPORTING DATA FOR RESPIRATORY SENSITIZATION ARE LESS CONCLUSIVE. EYES: CAUSES BURNS. VAPOR IRRITATING. HOWEVER, IMMEDIATE FLUSHING OF THE EYES WITH WATER WILL MINIMIZE ANY IRRITATIVE EFF

ECT. SKIN: CAUSES IRRITATION.

MAY CAUSE ALLERGIC SKIN REACTION. INGESTION: HARMFUL IF SWALLOWED.

MAY CAUSE IRRITATION OF THE GASTROINTESTINAL TRACT.

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

First Aid:INHALATION:IF SYMPTOMATIC, MOVE TO FRESH AIR. TREAT SYMPTOMATICALLY. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR. EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IMMEDIATELY. IN CASE OF IRRITATION FROM AIRBORNE

EXPOSURE, MOVE TO FRESH AIR. SKIN: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. GET MEDICAL ATTENTION IMMEDIATELY. WASH CONTAMINATED CLOTHING BEFORE REUSE. DESTROY OR THOROUGHLY CLEAN CONTAMINATED SHOES. INGESTION: DO NOT INDUCE VOMITING. GIVE VICTIM A GLASS OF WATER. CALL 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.

Unusual Fire/Explosion Hazard:MAY CAUSE SPONTANEOUS HEATING AND IGNITION WHEN ABSORBED ON COMBUSTIBLE, POROUS MATERIAL (E.G. RAGS, PAPER, SAWDUST, COTTON, CLOTHING).

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

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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.

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

Handling and Storage Precautions: KEEP CONTAINER CLOSED. REMOVE AND WASH CONTAMINATED CLOTHING PROMPTLY. KEEP FROM CONTACT WITH OXIDIZING MATERIALS.

Other Precautions: DO NOT

GET IN EYES AND AVOID CONTACT WITH SKIN AND CLOTHING. AVOID BREATHING 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: FULL-FACE ORGANIC VAPOR CARTRIDGE. 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 VAPOR-TIGHT CHEMICAL GOGGLES IF FULL FACE RESPIRATOR NOT WORN.

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

Supplemental Safety and Health

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

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

HCC: C2

Boiling Pt: >100.C, 212.F

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

Vapor Density: 0.6

Spec Gravity: 1.155

pH: 3.0

Solubility in Water: COMPLETE

Appearance and Odor: CLEAR, BROWN LIQUID. ODOR: ALDEHYDE.

Percent Volatiles by Volume

me:75-80 WT

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

Stability Indicator/Materials to Avoid: YES

STRONG OXIDIZING AGENTS

Stability Condition to Avoid: STABLE

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

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

Ecological: POTENTIAL TOXICITY- FISH LC50 MG/L: 10-100, DAPHNID EC50
MG/L: >100, ALGAL IC50 MG/L: >100. ORGANICS READILY DEGRADABLE
(>70%): YES (7 DA
YS). POTENTIAL BIOACCUMULATION: LOG POW 100.

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

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

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

Transport Information: FOR TRANSPORTATION INFORMATION REGARDING THIS

PRODUCT CALL THE KODAK WORLDWIDE TRANSPORTATION HAZMAT HOT LINE:
(716) 722-2400 BETWEEN 8 AM AND 5 PM (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: NONE.

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):

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