

EASTMAN KODAK COMPANY -- 150 0719 DEVELOPER SYSTEM CLEANER AND NEUTRALIZER, W.S.
-- 6850-01-439-7872

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

Product ID:150 0719 DEVELOPER SYSTEM CLEANER AND NEUTRALIZER, W.S.

MSDS Date:02/04/2001

FSC:6850

NIIN:01-439-7872

Kit Part:Y

MSDS Number: CHHZK

=== Responsible Party ===

Company Name:EASTMAN KODAK COMPANY

Address:343 STATE STREET

City:ROCHESTER

State:NY

ZIP:14650

Country:US

Info Phone Num: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

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

CAGE:5K871

===== Composition/Infor

mation on Ingredients =====

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000
Minumum % Wt:95.
Maxumum % Wt:100.
Other REC Limits:NONE RECOMMENDED

Ingred Name:SULFURIC ACID
CAS:7664-93-9
RTECS #:WS5600000
Minumum % Wt:1.
Maxumum % Wt:5.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3/3 STEL; 9596
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:POTASSIUM PERMANGANATE
CAS:7722-64-7
RTECS #:SD6475000
< Wt:1.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:C 5 MG
(MN)/M3
ACGIH TLV:5 MG(MN)/M3; 9596
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO
Health Hazards Acute and Chronic:INHALATION: EXPECTED TO BE A LOW
HAZARD FOR RECOMMENDED HANDLING. EYES: NO SPECIFIC HAZARD KNOWN.
MAY CAUSE TRANSIENT IRRITATION. SKIN: LOW HAZARD FOR RECOMMENDED
HANDLING. INGESTION: EXPECTED TO
BE A LOW INGESTION HAZARD.

Explanation of Carcinogenicity:INTERNATIONAL AGENCY FOR RESEARCH ON
CANCER (IARC): GROUP 1, STRONG INORGANIC MISTS OR VAPORS CONTAINING
SULFURIC ACID - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL
HYGIENISTS (ACGIH) (SULFURIC ACID): SUSPECTED HUMAN CARCINOGEN
(A2) - NATIONAL TOXICOLOGY PROGRAM (NTP): NONE - OCCUPATIONAL
SAFETY AND HEALTH ADMINISTRATION (OSHA): NONE

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

First Aid

:INHALATION: IF SYMPTOMATIC, MOVE TO FRESH AIR. TREAT SYMPTOMATICALLY. GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. EYES: ANY MATERIAL THAT CONTACTS THE EYE SHOULD BE WASHED OUT IMMEDIATELY WITH WATER. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR. SKIN: WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR. INGESTION: DRINK 1-2 GLASSES OF WATER. SEEK MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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Fire Fighting Measures =====

Flash Point:NONFLAMMABLE

Extinguishing Media: USE APPROPRIATE AGENT FOR ADJACENT FIRE.

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

Unusual Fire/Explosion Hazard:NONE.

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Accidental Release Measures =====

Spill Release Procedures:ABSORB SPILL WITH VERMICULITE OR OTHER INERT MATERIAL, THEN PLACE IN A CONTAINER FOR CHEMICAL WASTE. CLEAN SURFACE THOROUGHLY TO REMOVE RESIDUAL CONTAMINATION.

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Handling and Storage =====

Handling and Storage Precautions:STORAGE: KEEP CONTAINER CLOSED. KEEP AWAY FROM INCOMPATIBLE SUBSTANCES (SEE INCOMPATIBILITY SECTION).

Other Precautions:PERSONAL PRECAUTIONARY MEASURES: AVOID BREATHING MIST AT CONCENTRATIONS GREATER THAN THE EXPOSURE LIMITS. AVOID CONTACT WITH EYES AND PROLONGED OR REPEATED CONTACT WITH SKIN. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING.

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Exposure Controls/Personal Protection =====

Respiratory Protection:NONE SHOULD BE NEEDED. 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. VENTILATIO

N RATES SHOULD BE MATCHED TO
CONDITIONS.

Protective Gloves:FOR PROLONGED OR REPEATED EXPOSURE: IMPERVIOUS GLOVES
SHOULD BE WORN.

Eye Protection:SAFETY GLASSES W/SIDE SHIELDS OR GOGGLES.

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

Work Hygienic Practices:WASH HANDS THOROUGHLY WITH SOAP AND WATER
BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. IT IS
A GOOD INDUSTRIAL HYGIENE PRACTICE TO MINIMIZE SKIN CONTACT.

Supplemental Safety and Health

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

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

HCC:C1

Boiling Pt:>100.C, 212.F

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

Vapor Density:0.6

Spec Gravity:1.01

pH:< 2.0

Viscosity:NOT GIVEN

Evaporation Rate & Reference:NOT GIVEN

Solubility in Water:COMPLETE

Appearance and Odor:PURPLE LIQUID, NO ODOR

Percent Volatil

es by Volume:95-100 WT

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

Stability Indicator/Materials to Avoid:YES

BASES.

Stability Condition to Avoid:STABLE.

Hazardous Decomposition Products:NONE (NONCOMBUSTIBLE).

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

Toxicological Information:GENERAL: INTERNATIONAL AGENCY FOR RESEARCH ON
CANCER (IARC) HAS DETERMINED THAT OCCUPATIONAL EXPOSURE TO STRONG
INORGANIC MISTS OR VAPORS CONTAINING SULFURIC ACI

D IS CARCINOGENIC

TO HUMANS. PRODUCT IS NOT EXPECTED TO GENERATE MISTS OR VAPORS WHEN PRODUCT INSTRUCTIONS FOR MIXING AND USE ARE FOLLOWED. DO NOT USE SUBSTANCE IN A WAY THAT WOULD GENERATE VAPOR, MIST, AEROSOL, DUST OR OTHER POTENTIAL INHALATION EXPOSURE.

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Ecological Information
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Ecological:THE FOLLOWING PROPERTIES ARE ESTIMATED FROM THE COMPONENTS OF THE PREPARATIONS. WORKING SOLUTION: POTENTIAL TOXICITY: FISH LC50 MG/L:>1

00. DAPHNID EC50 MG/L:>100. ALGAL IC50 MG/L: >100.

ORGANICS READILY DEGRADABLE (>70%): NOT APPLICABLE. POTENTIAL BIOACCUMULATION: LOG POW100.

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Disposal Considerations
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Waste Disposal Methods:CONTRACT WITH A LICENSED CHEMICAL DISPOSAL AGENCY. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUE, FOLLOW LABEL WARNINGS EVEN AFTER CONTAINER IS EMPTIED.

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MSDS Transport Information
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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.

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Regulatory Information
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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: POTASSIUM PE

RMANGANATE.

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.

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Other Information
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r 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.