

EASTMAN KODAK CO. -- 139 7215,PT B, KODAK INDUSTREX DEVELOPER REPLENISHER --
6750-01-353-4889

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

Product ID:139 7215,PT B, KODAK INDUSTREX DEVELOPER REPLENISHER

MSDS Date:04/08/1998

FSC:6750

NIIN:01-353-4889

Status Code:A

Kit Part:Y

MSDS Number: CKZNH

=== Responsible Party ===

Company Name:EASTMAN KODAK CO.

Address:343 STATE STREET

City:ROCHESTER

State:NY

ZIP:14650

Country:US

Info Phone Num:716-722-5151

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

CAGE:5K871

====

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

Ingred Name:ACETIC ACID
CAS:64-19-7
RTECS #:AF1225000
Minumum % Wt:85.
Maxumum % Wt:90.
Other REC Limits:NOT PROVIDED
OSHA PEL:10 PPM
ACGIH TLV:10 PPM
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:1-PHENYL-3-PYRAZOLIDIONE
CAS:92-43-3
RTECS #:UQ8750000
Minumum % Wt:5.
Maxumum % Wt:10.
Other REC Limits:0.2 MG/M3 TWA, MFR

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000
Minumum % Wt:1.
Maxumum % Wt:5.
Other REC Limits:NOT
PROVIDED

Ingred Name:NONIONIC SURFACTANT
CAS:68072-38-8
Minumum % Wt:1.
Maxumum % Wt:5.
Other REC Limits:NOT PROVIDED

Ingred Name:5-NITROINDAZOLE
CAS:5401-94-5
RTECS #:NK7962000
< Wt:1.
Other REC Limits:NOT PROVIDED

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

LD50 LC50 Mixture:NOT PROVIDED
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:INHALATION: VAPOR EXTREMELY
IRRITATING. MAY CAUSE DELAYED LUNG INJURY. EYES: CAUSES SEV

ERE

BURNS. VAPOR EXTREMELY IRRITATING. SKIN: CAUSES SEVERE BURNS. MAY CAUSE ALLERGIC SKIN REACTION. INGESTION: HARMFUL IF SWALLOWED. MAY CAUSE BURNS OF THE GASTROINTESTINAL TRACT IF SWALLOWED.

Explanation of Carcinogenicity:(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 A

ND HEALTH ADMINISTRATION (OSHA): NONE

Effects of Overexposure:INHALATION: VAPOR EXTREMELY IRRITATING. EYES:
CAUSES SEVERE BURNS. VAPOR EXTREMELY IRRITATING. SKIN: CAUSES
SEVERE BURNS. INGESTION: MAY CAUSE BURNS OF THE GASTROINTESTINAL
TRACT IF SWALLOWED.

Medical Cond Aggravated by Exposure:NOT PROVIDED

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

First Aid:INHALATION: MOVE TO FRESH AIR. IF BREATHING IS DIFFICULT,
GIVE OXYGEN. IF NOT BREATHING, GIVE ARTIF

ICIAL RESPIRATION. GET

MEDICAL ATTENTION IMMEDIATELY. EYES: IMMEDIATELY FLUSH WITH PLENTY
OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION
IMMEDIATELY. 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. INGESTION: DO NOT INDUCE VOMITING. GIVE VICTIM A
GLASS OF WATER. CALL A PHYSICIAN OR POISON CONTROL CENTER
IMMEDI

ATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS
PERSON.

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

Flash Point:38-40C, 100-140F

Lower Limits:NOT GIVEN

Upper Limits:NOT GIVEN

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

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND
PROTECTIVE CLOTHING. USE WATER SPRAY TO KEEP FIRE-EXPOSED
CONTAINERS COOL. FIRE OR EXCESSIVE HEAT MAY PRODUCE HAZARDOUS

DECOMPOSITION PRODUCTS.

Unusual Fire/Explosion Hazard:CLASSIFIED AS COMBUSTIBLE. MATERIAL CONTAINS A COMBUSTIBLE SOLVENT THAT MAY ACCUMULATE IN THE CONTAINER HEADSPACE.

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

Spill Release Procedures:ELIMINATE ALL IGNITION SOURCES. MAY REQUIRE NEUTRALIZATION IF PH < 2.0 OR > 12.5. 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.
Neutralizing Agent:NOT PROVIDED

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

Handling and Storage Precautions:KEEP CONTAINER CLOSED. KEEP AWAY FROM INCOMPATIBLE SUBSTANCES. KEEP AWAY FROM HEAT AND FLAME. USE WITH ADEQUATE VENTILATION. KEEP FROM CONTACT WITH OXIDIZING MATERIALS.
Other Precautions:DO NOT BREATHE VAPOR AT CONCENTRATIONS GREATER THAN THE EXPOSURE LIMITS. USE ONLY WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. DO NOT GET IN EYES, ON SKIN, ON CLOTHING.

===== 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 APPROPRIATE FOR THE RISK OF EXPOSURE.
Eye Protection:VAPOR TIGHT CHEMICAL GOGGLES, SAFETY GLASSES WITH FACE/SIDE SHIELDS OR GOGGLES
Other Protective Equipment:EYE WASH STATION, SAFETY SHOWER, WASHING FACILITIES. WEAR PROTECTIVE CLOTHING APPROPRIATE FOR THE RISK OF EXPOSURE.

XPOSURE.

Work Hygienic Practices:NOT PROVIDED

Supplemental Safety and Health

USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO MAINTAIN AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS. ABBREVIATION: N/A = NOT APPLICABLE. N/AV = NOT AVAILABL E. N/K = UNKNOWN. N/P = NOT PROVIDED. N/R = NOT RELEVANT. N/D = NOT DETERMINED. N/E = NOT ESTABLISHED.

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

HCC:F6

NRC/State Lic Num:NOT REL

EVANT

Boiling Pt:>100.C, 212.F

Melt/Freeze Pt:M.P/F.P Text:NOT PROVIDED

Decomp Temp:Decomp Text:NOT PROVIDED

Vapor Pres:NOT AVAILABLE

Vapor Density:N/AV

Spec Gravity:1.070

pH:2.0

Viscosity:NOT PROVIDED

Evaporation Rate & Reference:NOT PROVIDED

Solubility in Water:COMPLETE

Appearance and Odor:LIQUID, AMBER COLOR, VINEGAR ODOR.

Percent Volatiles by Volume:85-90 WT

Corrosion Rate:NOT PROVIDED

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

Stability Indicator/Materials to

Avoid:YES

STRONG OXIDIZING AGENTS, BASES, METALS, AMINES

Stability Condition to Avoid:NOT PROVIDED

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

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

Toxicological Information:BASED ON REPEATED-DOSE INGESTION STUDIES IN ANIMALS, 1-PHENYL-3-PYRAZOLIDINONE, A COMPONENT OF THIS PRODUCT MAY CAUSE BLOOD, TESTICULAR, AND ADVERSE REPRODUCTIVE EFFECTS. ACUTE OVEREXPOSURE TO EXTREME LY

HIGH AIRBORNE CONCENTRATIONS OF
RESPIRATORY IRRITANTS HAS BEEN ASSOCIATED WITH DEVELOPMENT OF AN
ASTHMA-LIKE REACTIVE AIRWAYS SYNDROME (RADS) IN SUSCEPTIBLE
INDIVIDUALS. DATA FOR 1-PHENYL-3-PYRAZOLIDINONE: ACUTE TOXICITY
DATA: ORAL LD-50 (MALE RAT): 476 MG/KG. ORAL LD-50 (FEMALE RAT):
336 MG/KG. DERMAL LD-50: > 1000 MG/KG, ESTIMATED

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

Ecological:THE FOLLOWING PROPERTIES ARE ESTIMATED FROM THE COMPONENTS
OF THE PREPARATIONS. POTENTIAL TOXICITY: FISH LC50 MG/L: 10-100.
DAPHNID EC50 MG/L: 10-100. ALGAL IC50 MG/L: >100. ORGANICS
READILY DEGRADABLE (>70%): YES (7 DAYS). POTENTIAL
BIOACCUMULATION: LOG POW 10 0.

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

Waste Disposal Methods:MAY REQUIRE NEUTRALIZATION IF PH12.5.
DISCHARGE, TREATMENT OR DISPOSAL MAY BE SUBJECT TO FEDERAL, STATE,
OR LOCAL LAWS. FLUSH TO SEWER WITH LARGE AMOUNTS OF WATER. SINCE
EMPTIED CONTAINERS RETAIN PRODUCT RESIDUE, FOLLOW LABEL WARNINGS.

===== 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: 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)

ed 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.