

EASTMAN KODAK COMPANY -- 185 5501, WKG SOL, KODAK EA-5 STABILIZER AND REPLENISHER
-- 6750-00-357-7422

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

Product ID:185 5501, WKG SOL, KODAK EA-5 STABILIZER AND REPLENISHER

MSDS Date:09/30/2000

FSC:6750

NIIN:00-357-7422

Status Code:A

MSDS Number: CLDFD

== Responsible Party ==

Company Name:EASTMAN KODAK COMPANY

Address:343 STATE STREET

City:ROCHESTER

State:NY

ZIP:1

4650

Country:US

Info Phone Num:716-477-3194 FOR MSDS : 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

> Wt:99.

Other REC Limits:

NOT PROVIDED

Code:F

Code:F

Ingred Name: FORMALDEHYDE

CAS: 50-00-0

RTECS #: LP8925000

= Wt.: 2

Other REC Limits: NOT PROVIDED

OSHA PEL: SEE 1910.1048

ACGIH STEL: C0.37 MG/M3; C0.3 PPM

EPA Rpt Qty: 100 LBS

DOT Rpt Qty: 100 LBS

Ingred Name: METHANOL

CAS: 67-56-1

RTECS #: PC1400000

= Wt.: 1

Other REC Limits: NOT PROVIDED

OSHA PEL: 260 MG/M3; 200 PPM

ACGIH TLV: 262 MG/M3; 200 PPM

ACGIH STEL: 328 MG/M3; 250 PPM

EPA Rpt Qty: 5000 LBS

DOT Rpt Qty: 5000 LBS

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

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LD50 LC50 Mixture: NOT PROVIDED

Reports of Carcinogenicity: NTP: YES IARC: YES OSHA: YES

Health Hazards Acute and Chronic: INHALATION: FORMALDEHYDE IS DETECTABLE

BY MOST PEOPLE AT LEVELS BELOW 1 PPM. IT PRODUCES MILD SENSORY
IRRITATION OF THE EYES, NOSE AND THROAT. AT 2-5 PPM, BECOMES
UNPLEASANT AT 5-10 PPM, AND IS INTOLERABLE AT HIGHER
CONCENTRATIONS. EXPOSURE TO FORMALDEHYDE MAY CAUSE RESPIRATORY
SENSITIZATION IN SOME INDIVIDUALS OR AGGRAVATE PRE-EXISTING
ASTHMATIC CONDITIONS.

EYES: CAUSES IRRITATION. VAPOR CAUSES EYE
IRRITATION AND TEARING. SKIN: CAUSES IRRITATION. MAY CAUSE ALLERGIC
SKIN REACTION. INGESTION: EXPECTED TO BE A LOW INGESTION HAZARD.

Explanation of Carcinogenicity: AMERICAN CONFERENCE OF GOVERNMENTAL
INDUSTRIAL HYGIENISTS (ACGIH) (FORMALDEHYDE): SUSPECTED HUMAN
CARCINOGEN (A2) - INTERNATIONAL AGENCY RESEARCH ON CANCER (IARC)
(FORMALDEHYDE): 2A NATIONAL TOXICOLOGY PROGRAM (NTP)
(FORMALDEHYDE): REASONABLY ANTICIPATED CA

RCINOCEN (2) -

OCCUPATIONAL SAFETY AND HEALTH ADMINISTR (OSHA) (FORMALDEHYDE):
POTENTIAL CANCER HAZARD

Effects of Overexposure: INHALATION: FORMALDEHYDE IS DETECTABLE BY MOST PEOPLE AT LEVELS BELOW 1 PPM. IT PRODUCES MILD SENSORY IRRITATION OF THE EYES, NOSE AND THROAT. EYES: CAUSES IRRITATION. VAPOR CAUSES EYE IRRITATION AND TEARING. SKIN: CAUSES IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION.

Medical Cond Aggravated by Exposure: EXPOSURE TO FORMALDEHYDE MAY CAUSE RESPIR

ATORY SENSITISATION IN SOME INDIVIDUALS OR AGGRAVATE PRE-EXISTING ASTHMATIC CONDITIONS.

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

First Aid: INHALATION: MOVE TO FRESH AIR. TREAT SYMPTOMATICALLY. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR. 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 WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. IF SKIN

IRRITATION OR AN ALLERGIC SKIN REACTION DEVELOPS, GET MEDICAL ATTENTION. WASH CONTAMINATED CLOTHING BEFORE REUSE. DESTROY OR THOROUGHLY CLEAN CONTAMINATED SHOES. INGESTION: DRINK 1-2 GLASSES OF WATER. SEEK MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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

Flash Point: NONE

Extinguishing Media: USE APPROPRIATE AGENT FOR ADJACENT FIRE.

Fire Fighting Procedures: WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. FIRE OR EXCESSIVE HEAT MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS.

Unusual Fire/Explosion Hazard: NONE.

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

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.

Neutralizing Agent

:NOT PROVIDED

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

Handling and Storage Precautions:KEEP CONTAINER CLOSED.

Other Precautions:AVOID BREATHING VAPOR AT CONCENTRATIONS GREATER THAN THE EXPOSURE LIMITS. AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING.

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

Respiratory Protection:IF FORMALDEHYDE IS EMITTED AT LEVELS REQUIRING RESPIRATOR PROTECTION, WORN: FULL FACEPIECE WITH CARTRIDGES OR

CANISTERS SPECIFICALLY APPROVED BY NIOSH FOR PROTECTION AGAINST FORMALDEHYDE OR A TYPE C AIR-SUPPLIED RESPIRATOR DEMAND TYPE, WITH FULL FACEPIECE, HOOD, OR HELMET. OBSERVE OSHA STANDARD 29CFR 1910.134 AND 29CFR 1910.1048.

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. FOLLOWING GLOVES HAVE BEEN SHOWN TO BE IMPERVIOUS UNDER THE INDICATED CONDITIONS: NEOPRENE RUBBER, NITRILE RUBBER.

Work Hygienic Practices:SKIN CONTACT WITH LIQUIDS CONTAINING 0.1 PERCENT/MORE FORMALDEHYDE SHOULD BE PREVENTED BY CHEMICAL PROTECTIVE CLOTHING MADE OF MATERIAL IMPERVIOUS TO FORMALDEHYDE AND

OTHER PERSONAL PROTECTIVE EQUIP.

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 AVAILABLE. N/K = UNKNOWN. N/P = NOT PROVIDED. N/R = NOT RELEVANT. N/D = NOT DETERMINED. N/E = NOT ESTABLISHED.

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

HCC:N1

NRC/State Lic Num:NOT RELE

VANT

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:0.90-1.10

pH:5.3-5.5

Viscosity:NOT PROVIDED

Evaporation Rate & Reference:NOT PROVIDED

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR, COLORLESS LIQUID. SLIGHT ODOR.

Percent Volatiles by Volume:100 WT

Corrosion Rate:NOT PROVIDED

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

Stability Indica

tor/Materials to Avoid:YES

NONE WITH COMMON MATERIALS AND CONTAMINANTS WITH WHICH THE MATERIAL MAY REASONABLY COME INTO CONTACT.

Stability Condition to Avoid:NOT PROVIDED

Hazardous Decomposition Products:FORMALDEHYDE

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

Toxicological Information:INHALATION: FORMALDEHYDE IS DETECTABLE BY MOST PEOPLE AT LEVELS BELOW 1 PPM. IT PRODUCES MILD SENSORY IRRITATION OF THE EYES, NOSE AND THROAT AT 2-5 PPM, BECOMES UNPLEASANT

AT 5-10 PPM, AND IS INTOLERABLE AT HIGHER CONCENTRATIONS. EXPOSURE TO FORMALDEHYDE MAY CAUSE RESPIRATORY SENSITIZATION IN SOME INDIVIDUALS OR AGGRAVATE PRE-EXISTING ASTHMATIC CONDITIONS. DATA FOR FORMALIN: ACUTE TOXICITY DAT A: ORAL LD-50 (RAT): 800 MG/KG. DERMAL LD-50: 270 MG/KG. SKIN IRRITATION: MODERATE IRRITATION EYE IRRITATION: SEVERE IRRITATION INHALATION LC50 (RAT): 250 PPM/4 HOUR(S), FORMALDEHYDE GAS

===== Ecological Informat

ion =====

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

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

Waste Disposal Methods:DISCHARGE, TREATMENT, OR DISPOSAL MAY BE SUBJECT TO NATIONAL, STATE, OR LOCAL LAW

S. FLUSH TO SEWER WITH LARGE AMOUNTS OF WATER. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUE, FOLLOW LABEL WARNINGS EVEN 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 REPORTING REQUIREMENTS OF SECTION 313 OR TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) OF 1986 AND 40 CFR PART 372: FORMALDEHYDE, METHANOL

Federal Regulatory Information:NOT PROVIDED

State Regulatory Information:MATERIAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER: FORMALDEHYDE - MATERIAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE ADVERSE REPRODUCTIVE EFFECTS:

NONE

===== Other Information =====

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