

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 =====

=

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 INTOLE RABLE AT HIGHER

CONCENTRATIONS. EXPOSURE TO FORMALDEHYDE MAY CAUSE RESPIRATORY

SENSITIZATION IN SOME INDIVIDUALS OR AGGRAVATE PRE-EXISTING

ASTHMATIC C

ONDITIONS. EYES: CAUSES IRRITATION. VAPOR CAUSES E YE

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 TOXICOLO GY PROGRAM (NTP)

(FORMALDEHYDE): REASONABLY ANTICIPATED CA

RCINOGEN (2) -

OCCUPATIONAL SAFETY AND HEALTH ADMINSTR (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 S  
KIN  
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 RESPIRAT

ORY 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 FORMALDEH YDE 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 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: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 LCLO (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 E VEN 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 FR IDAY.

===== Regula  
tory 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 REPR  
ODUCTIVE EFFECTS:  
NONE

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

Disclaimer (provided 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 ve

rify and  
assume responsibility for the suitability of this information to their  
particular situation.