

EASTMAN KODAK COMPANY -- 140 2767, WKG SOL, KODAK T-MAX DEVELOPER --
6750-01-281-4599

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

Product ID:140 2767, WKG SOL, KODAK T-MAX DEVELOPER

MSDS Date:11/15/2000

FSC:6750

NIIN:01-281-4599

Status Code:A

MSDS Number: CLDCR

=== Responsible Party ===

Company Name:EASTMAN KODAK COMPANY

Address:343 STATE STREET

City:ROCHESTER

State:NY

ZIP:14650

Country:US

Info Phone Num:7

16-722-5151/(800) 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

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

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Minumum % Wt:85.

Maxumum % Wt:90.

Other REC Limits:NOT PROVIDED

Co

de:F
Code:F

Ingred Name:DIETHANOLAMINE-SULFUR DIOXIDE COMPLEX
CAS:63149-47-3
Minumum % Wt:10.
Maxumum % Wt:15.
Other REC Limits:NOT PROVIDED
OSHA PEL:NOT PROVIDED
ACGIH TLV:NOT PROVIDED

Ingred Name:SODIUM BISULFITE
CAS:7631-90-5
RTECS #:VZ2000000
< Wt:1.
Other REC Limits:NOT PROVIDED
OSHA PEL:NOT PROVIDED
ACGIH TLV:5 MG/M3
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:HYDROQUINONE
CAS:123-31-9
RTECS #:MX3500000
< Wt:1.
Other REC Limits:NOT PROVIDED
OSHA PEL:2 MG/M3
ACGIH TLV:2 M
G/M3
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:PENTETIC ACID, PENTASODIUM SALT
CAS:140-01-2
< Wt:1.
Other REC Limits:NOT PROVIDED
OSHA PEL:NOT PROVIDED
ACGIH TLV:NOT PROVIDED

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

LD50 LC50 Mixture:NOT PROVIDED
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:INHALATION: EXPECTED TO BE A LOW
HAZARD FOR RECOMMENDED HANDLING. IN CONTACT WITH STRONG ACIDS OR IF
HEATED, SULFITES MAY

LIBERATE SULFUR DIOXIDE GAS. SULFUR DIOXIDE GAS IS IRRITATING TO THE RESPIRATORY TRACT. SOME ASTHMATICS OR HYPERSENSITIVE INDIVIDUALS MAY EXPERIENCE DIFFICULT BREATHING. EYES: CAUSES IRRITATION. SKIN: MAY CAUSE ALLERGIC SKIN REACTION BASED ON HUMAN EXPERIENCE. INGESTION: HARMFUL IF SWALLOWED. SOME ASTHMATICS OR SULFITE-SENSITIVE INDIVIDUALS MAY EXPERIENCE WHEEZING, CHEST TIGHTNESS, STOMACH UPSET, HIVES, FAINTNESS, WEAKNESS AND DIARRHEA. MAY CAUSE BURNS OF THE GASTROINTESTINAL

TRACT IF SWALLOWED.

Explanation of Carcinogenicity:INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC): NONE - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH): HYDROQUINONE, A3; ANIMAL CARCINOGEN WITH UNKNOWN RELEVANCE TO HUMANS. SODIUM BISULFITE, A4; NOT CLASSIFIABLE AS HUMAN CARCINOGEN.- NATIONAL TOXICOLOGY PROGRAM (NTP): NONE - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA): NONE

Effects of Overexposure:INHALATION: IN CONTACT WITH STRONG ACIDS OR IF

HEATED, SULFITES MAY LIBERATE SULFUR DIOXIDE GAS. SULFUR DIOXIDE GAS IS IRRITATING TO THE RESPIRATORY TRACT. SOME ASTHMATICS OR HYPERSENSITIVE INDIVIDUALS MAY EXPERIENCE DIFFICULT BREATHING. EYES: CAUSES IRRITATION. SKIN: MAY CAUSE ALLERGIC SKIN REACTION BASED ON HUMAN EXPERIENCE. INGESTION: SOME ASTHMATICS OR SULFITE-SENSITIVE INDIVIDUALS MAY EXPERIENCE WHEEZING, CHEST TIGHTNESS, STOMACH UPSET, HIVES, FAINTNESS, WEAKNESS AND DIARRHEA.

MAY CAUSE BURNS OF THE GASTROINTESTINAL TRACT IF SWALLOWED.

Medical Cond Aggravated by Exposure:SOME ASTHMATICS, HYPERSENSITIVE OR SULFITE-SENSITIVE INDIVIDUALS MAY EXPERIENCE DIFFICULT BREATHING, WHEEZING, CHEST TIGHTNESS, STOMACH UPSET, HIVES, FAINTNESS, WEAKNESS AND DIARRHEA.

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

First Aid:INHALATION: IF SYMPTOMATIC, MOVE TO FRESH AIR. TREAT SYMPTOMATICALLY. GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. EYES:

IMMEDIATELY FLUSH WITH WATER AT LEAST 15 MINUTES. GET MEDICAL ATTENTION. SKIN: IMMEDIATELY FLUSH WITH WATER AND WASH WITH NON-ALKALINE (ACID) SKIN CLEANER. REMOVE CONTAMINATED CLOTHING AND SHOES. IF SKIN IRRITATION OR ALLERGIC SKIN REACTION, GET MEDICAL ATTENTION. WASH CONTAMINATED CLOTHING BEFORE REUSE. DESTROY OR CLEAN CONTAMINATED SHOES. INGESTION: ONLY INDUCE VOMITING AT INSTRUCTION OF MEDICAL PERSONNEL. CALL PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. NE

NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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Fire Fighting Measures
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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:NONE

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Accidental Release Measures
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Spill Release Procedures:FLUSH TO SEWER WITH LARGE AMOUNT 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

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Handling and Storage
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Handling and Storage Precautions:KEEP CONTAINER CLOSED. KEEP FROM CONTACT WITH OXIDIZING MATERIALS.

Other Precautions:AVOID BREATHING MIST OR VAPOR. AVOID CONTACT WITH

EYES, SKIN, AND CLOTHING. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. THE ROUTINE USE OF A NONALKALINE (ACID) TYPE OF HAND CLEANER AND REGULAR CLEANING OF WORKING SURFACES, GLOVES, ETC. WILL HELP MINIMIZE THE POSSIBILITY OF A SKIN REACTION.

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Exposure Controls/Personal Protection
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Respiratory Protection:NONE SHOULD BE NEEDED. A RESPIRATOR SHOULD BE WORN IF HAZARDOUS DECOMPOSITION PRODUCTS ARE LIKELY TO BE OR HAVE

BEEN RELEASED. RESPIRATOR TYPE: ACID GAS. SEE STABILITY AND REACTIVITY SECTION. 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 SAFETY GLASSES

ETY GLASSES WITH SIDE SHIELDS (OR GOGGLES).

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

Work Hygienic Practices:NOT PROVIDED

Supplemental Safety and Health

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 RELEVANT

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:1.04-1.05

pH:8.3-8.4

Viscosity:NOT PROVIDED

Evaporation Rate & Reference:NOT PROVIDED

Solubility in Water:COMPLETE

Appearance and Odor:COLORLESS LIQUID. ODOR: SLIGHT AMINE.

Percent Volatiles by Volume:85-90 WT

Corrosion Rate:NOT PROVIDED

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS

Stability Condition to Avoid:STABLE. MATERIALS CONTAINING SIMILAR STRUCTURAL GROUPS CAN DECOMPOSE IF HEATED ABOVE 145C (293F).

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

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

Toxicological Information:EFFECTS OF EXPOSURE: GENERAL:

CONTAINS: DIETHANOLAMINE-SULFUR DIOXIDE COMPLEX. MAY CAUSE KIDNEY DAMAGE BASED ON ANIMAL DATA. MAY CAUSE LIVER D

AMAGE BASED ON
ANIMAL DATA.

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Ecological Information
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Ecological:THE FOLLOWING PROPERTIES ARE ESTIMATED FROM THE COMPONENTS OF THE PREPARATIONS. POTENTIAL TOXICITY: FISH LC50 MG/L: 10-100. DAPHNID EC50 MG/L: 1-10. ALGAL IC50 MG/L: 10-100. ORGANICS READILY DE GRADABLE (>70%): YES (7 DAYS). POTENTIAL BIOACCUMULATION: LOG POW 10 0.

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Disposal Considerations
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Waste Disposal Methods:DISC
HARGE, TREATMENT, OR DISPOSAL MAY BE SUBJECT TO NATIONAL, STATE, OR LOCAL LAWS. FLUSH TO SEWER WITH LARGE AMOUNTS OF WATER. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUE, FOLLOW LABEL WARNINGS E VEN 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. (EAS
TERN 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: HYDROQUINONE

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

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Other Information
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