

EASTMAN KODAK COMPANY

343 STATE STREET

ROCHESTER, NY 14650

EMERGENCY PHONE: (716) 722-5151

DATE: 10/15/85

SECTION 1. IDENTIFICATION-----

PRODUCT NAME: KODAK DEVELOPER D-76

FORMULA: SOLID MIXTURE

KODAK PHOTOGRAPHIC CHEMICALS CATALOG NUMBER(S): CAT 146 4817

- TO MAKE 1 GALLON; CAT 123 0895 - TO MAKE 1 QUART; CAT 123
0937 - TO MAKE 1 GALLON; CAT 146 4791 - TO MAKE 1 QUART; CAT
146 4809 - TO MAKE 1 GALLON

MIXTURE NUMBER: 5239

KODAK'S HAZARD RATING CODES: R:1 S:2 F:0 C:0

SECTION 2. PRODUCT AND COMPONENT HAZARD DATA-----

COMPONENT: SODIUM SULFITE

WEIGHT PERCENT: 85-90

TLV(R): ---

KODAK ACCESSION #: 901148

CAS #: 7757-83-7

COMPONENT: HYDROQUINONE*

WEIGHT PERCENT: 1-5

TLV(R): 2 MG/M3**

KODAK ACCESSION #: 900356

CAS #: 123-31-9

COMPONENT: P-METHYLAMINOPHENOL SULFATE*

WEIGHT PERCENT: 1-5

TLV(R): ---

KODAK ACCESSION #: 900615

CAS #: 55-55-0

COMPONENT: SODIUM TETRABORATE, PENTAHYDRATE

WEIGHT PERCENT: 1-5

TLV(R): 1 MG/M3

KODAK ACCESSION #: 901365

CAS #: 1330-43-4

* PRINCIPLE HAZARDOUS COMPONENTS

** SEE SECTION 6-A FOR ADDITIONAL INFORMATION ON EXPOSURE
LIMITS.

PRECAUTIONARY LABEL STATEMENT(S):

CONTAINS: HYDROQUINONE AND P-METHYLAMINOPHENOL SULFATE

WARNING!

CAUSES SKIN AND EYE IRRITATION

CAN CAUSE ALLERGIC SKIN REACTION

AVOID CONTACT WITH EYES, SKIN AND CLOTHING.

WASH THOROUGHLY AFTER HANDLING.

FIRST AID: IN CASE OF EYE CONTACT, IMMEDIATELY FLUSH WITH
PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL
ATTENTION. IN CASE OF SKIN CONTACT, IMMEDIATELY WASH WITH
SOAP AND PLENTY OF WATER.

SECTION 3. PHYSICAL DATA-----

APPEARANCE AND ODOR: YELLOW POWDER; ODORLESS

MELTING POINT: NOT AVAILABLE FOR SOLID MIXTURES

BOILING POINT: NOT AVAILABLE FOR SOLID MIXTURES

VAPOR PRESSURE: NEGLIGIBLE

EVAPORATION RATE (N-BUTYL ACETATE=1): NEGLIGIBLE

VAPOR DENSITY (AIR=1): NOT APPLICABLE

VOLATILE FRACTION BY WEIGHT: NEGLIGIBLE

SPECIFIC GRAVITY (H₂O=1): NOT AVAILABLE

SOLUBILITY IN WATER (BY WEIGHT): APPRECIABLE

SECTION 4. FIRE AND EXPLOSION HAZARD OF MATERIAL-----

NONCOMBUSTIBLE

EXTINGUISHING MEDIA: USE AGENT APPROPRIATE FOR SURROUNDING
FIRE.

SPECIAL FIRE FIGHTING PROCEDURES:

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE
CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

UNUSUAL FIRE AND EXPLOSION HAZARDS: FIRE OR EXCESSIVE HEAT
MAY CAUSE PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS.

SECTION 5. REACTIVITY DATA-----

STABILITY: STABLE.

INCOMPATIBILITY: ACIDS

HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF SULFUR MAY BE
PRESENT.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION 6. TOXICITY AND HEALTH HAZARD DATA-----

A. EXPOSURE LIMITS: SEE SECTION 2.

OSHA PERMISSIBLE EXPOSURE LIMIT (PEL): 2 MG/M3

(HYDROQUINONE)

B. EXPOSURE EFFECTS:

INHALATION: LOW HAZARD FOR USUAL INDUSTRIAL HANDLING.

EYES: CAUSES IRRITATION.

SKIN: CAUSES IRRITATION. CAN CAUSE ALLERGIC SKIN REACTION.

C. FIRST AID:

EYES: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT
LEAST 15 MINUTES AND GET MEDICAL ATTENTION.

SKIN: FLUSH SKIN WITH PLENTY OF WATER AND WASH WITH A NON-ALKALINE
(ACID) TYPE OF SKIN CLEANSER. IF SKIN IRRITATION OR

AN ALLERGIC SKIN REACTION DEVELOPS, GET MEDICAL ATTENTION.

SECTION 7. VENTILATION AND PERSONAL PROTECTION-----

A. VENTILATION: GOOD GENERAL VENTILATION SHOULD BE
SUFFICIENT.

B. SKIN AND EYE PROTECTION:

SAFETY GLASSES WITH SIDE SHIELDS ARE RECOMMENDED.

IMPERVIOUS GLOVES SHOULD BE WORN.

THE ROUTINE USE OF A NON-ALKALINE (ACID) TYPE OF SKIN
CLEANSER AND REGULAR CLEANING OF WORKING SURFACES, GLOVES,
ETC., WILL HELP MINIMIZE THE POSSIBILITY OF ALLERGIC SKIN
REACTION.

SECTION 8. SPECIAL STORAGE AND HANDLING PRECAUTIONS-----

KEEP CONTAINER TIGHTLY CLOSED AND AWAY FROM ACIDS.

SECTION 9. SPILL, LEAK AND DISPOSAL PROCEDURES-----

FLUSH TO AN ACID-FREE SEWER WITH LARGE AMOUNTS OF WATER.
DISCHARGE, TREATMENT, OR DISPOSAL MAY BE SUBJECT TO FEDERAL,
STATE, OR LOCAL LAWS.

SECTION 10. ENVIRONMENTAL EFFECTS DATA-----

SOME LABORATORY TEST DATA AND PUBLISHED DATA ARE AVAILABLE
FOR THE MAJOR COMPONENTS OF THIS CHEMICAL FORMULATION, AND
THESE DATA HAVE BEEN USED TO PROVIDE THE FOLLOWING ESTIMATE
OF ENVIRONMENTAL IMPACT: (1-12)

THIS CHEMICAL FORMULATION HAS A MODERATE BIOLOGICAL OXYGEN
DEMAND AND IT MAY CAUSE OXYGEN DEPLETION IN AQUATIC SYSTEMS.
IT IS EXPECTED TO HAVE A HIGH POTENTIAL TO AFFECT AQUATIC
ORGANISMS AND SECONDARY WASTE TREATMENT MICROORGANISMS OR
MODERATE POTENTIAL TO AFFECT THE GERMINATION AND GROWTH OF
SOME PLANTS. THE ORGANIC COMPONENTS OF THIS CHEMICAL
FORMULATION ARE BIODEGRADABLE AND ARE NOT EXPECTED TO
PERSIST IN THE ENVIRONMENT. THEY ARE NOT LIKELY TO
BIOCONCENTRATE. THE DIRECT INSTANTANEOUS DISCHARGE TO A
RECEIVING BODY OF WATER OF AN AMOUNT OF THIS SOLUTION WHICH
WILL RAPIDLY PRODUCE, BY DILUTION, A FINAL CONCENTRATION OF
0.04 MG/L OR LESS IS NOT EXPECTED TO CAUSE AN ADVERSE
ENVIRONMENTAL EFFECT. AFTER DILUTED WITH A LARGE AMOUNT OF
WATER, FOLLOWED BY SECONDARY WASTE TREATMENT, THE CHEMICALS
IN THIS FORMULATION ARE NOT EXPECTED TO HAVE ANY ADVERSE
ENVIRONMENTAL IMPACT.

SECTION 11. TRANSPORTATION-----

FOR TRANSPORTATION INFORMATION REGARDING THIS PRODUCT,

PLEASE PHONE THE EASTMAN KODAK DISTRIBUTION CENTER NEAREST

YOU: ROCHESTER, NY (716) 254-1300; OAK BROOK, IL (312) 654-5300;
CHAMBLEE, GA (404) 455-0123; DALLAS, TX (214) 241-1611; WHITTIER, CA
(213) 945-1255; HONOLULU, HI (808) 833-1661.

SECTION 12. OTHER INFORMATION-----

THIS INFORMATION IS INTENDED ONLY AS GUIDANCE FOR

APPROPRIATE PRECAUTIONARY HANDLING OF THE MATERIAL AND IS

BELIEVED TO BE ACCURATE. THE UNIVERSITY SYSTEM OF GEORGIA

RIGHT TO KNOW PROGRAM PROVIDES NO GUARANTEE OF THE ACCURACY

OR COMPLETENESS OF THE DATA AND SHALL NOT BE LIABLE FOR ANY

DAMAGES. USERS OF THIS PRODUCT ARE RESPONSIBLE FOR

INVESTIGATING AND VERIFYING THE PRECAUTIONS AND DANGERS

INVOLVED IN THE APPLICATION THAT THEY HAVE CHOSEN. FEDERAL,

STATE, MUNICIPAL, AND INSURANCE REQUIREMENTS, AND APPLICABLE

SAFETY CODES MUST BE FOLLOWED AND ARE NOT TO BE CONFUSED

WITH THE PRECAUTIONARY DATA.

LAST PAGE.