

MATERIAL SAFETY DATA SHEET

200001246/F/USA - N-0005.500C

Approval Date: 07/08/1992

Print Date: 07/11/1992

Page 1

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: KODAK Color Developer, Process E-6, Part A

Catalog Number(s): 116 2510 - To Make 1 gallon(s) (U.S.)
181 5034 - Kit(s), To Make 1 gallon(s) (U.S.)
824 9906 - Kit(s), To Make 1 gallon(s) (U.S.)

Manufacturer/Supplier: EASTMAN KODAK COMPANY, Rochester, New York 14650

For Emergency Health, Safety & Environmental Information, call: 716-722-5151

For Other Information, call the Marketing and Distribution Center in Your Area.

Synonym(s): Part A: KAN 454562, PCD 5147, N-0005.500
Working solution: KAN 965671; Contains: PCD 5147 - Part A, PCD 5161 - Part B

2. COMPOSITION/INFORMATION ON INGREDIENTS

Weight % - Component - (CAS Registry No.)

Part A:

80-85 Water (007732-18-5)
10-15 Tripotassium phosphate (007778-53-2)
1-5 Sodium sulfite (007757-83-7)
1-5 Potassium hydroxide (001310-58-3)
1-5 Substituted phosphonate (not available)

Working solution:

90-95 Water (007732-18-5)
1-5 Tripotassium phosphate (007778-53-2)
< 1 4-(N-ethyl-N-2-methanesulfonylaminoethyl)-2- methylphenylenediamine
sesquisulfate monohydrate (025646-71-3)
< 1 Sodium sulfite (007757-83-7)
< 1 Potassium hydroxide (001310-58-3)

3. HAZARDS IDENTIFICATION

Part A:

DANGER! CONTAINS: Potassium hydroxide (001310-58-3)
CAUSES SKIN AND EYE BURNS
HARMFUL IF SWALLOWED

Working solution:

E000033-3-23-67

MATERIAL SAFETY DATA SHEET

200001246/F/USA - N-0005.500C

Approval Date: 07/08/1992

Print Date: 07/11/1992

Page 2

WARNING! CONTAINS: 4-(N-ethyl-N-2-methanesulfonylaminoethyl)-2-methylphenylenediamine sesquisulfate monohydrate (025646-71-3)
CAUSES SKIN AND EYE IRRITATION
MAY CAUSE ALLERGIC SKIN REACTION

4. FIRST-AID MEASURES

Inhalation: If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Eyes:

Part A: Immediately flush with plenty of water for at least 15 minutes. Get medical attention immediately.

Working solution: Immediately flush with plenty of water for at least 15 minutes. Get medical attention.

Skin:

Part A: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

Working solution: Immediately flush with plenty of water and wash with a non-alkaline (acid) type of skin cleaner. If skin irritation or an allergic skin reaction develops, get medical attention. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

Ingestion:

Part A: Do NOT induce vomiting. Give victim a glass of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

Working solution: Drink 1-2 glasses of water. Seek medical attention.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Use appropriate agent for adjacent fire.

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Hazardous Combustion Products: None (noncombustible) (see also Hazardous Decomposition Products)

MATERIAL SAFETY DATA SHEET

200001246/F/USA - N-0005.500C
Approval Date: 07/08/1992
Print Date: 07/11/1992
Page 3

Unusual Fire and Explosion Hazards: None

6. ACCIDENTAL RELEASE MEASURES

Flush to sewer with large amounts of water.

7. HANDLING AND STORAGE

Personal Precautionary Measures:

Part A: Do not get in eyes, on skin, on clothing. Use with adequate ventilation. Wash thoroughly after handling.

Working solution: 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.

Prevention of Fire and Explosion: No special precautionary measures should be needed under anticipated conditions of use.

Storage:

Part A: Keep container closed. Keep away from incompatible substances.

Working solution: Keep container closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

ACGIH Threshold Limit Value (TLV):

Potassium hydroxide: 2 mg/m³ Ceiling

OSHA (USA) Permissible Exposure Limit (PEL):

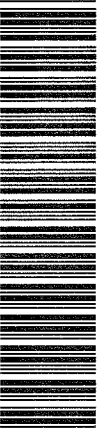
Potassium hydroxide: 2 mg/m³ Ceiling

Ventilation: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions.

Respiratory Protection: None should be needed.

Eye Protection:

E000033-3-22-67



MATERIAL SAFETY DATA SHEET

200001246/F/USA - N-0005.500C

Approval Date: 07/08/1992

Print Date: 07/11/1992

Page 4

Part A: Wear safety glasses with side shields (or goggles) and a face shield.

Working solution: Wear safety glasses with side shields (or goggles).

Skin Protection:

Part A: Wear impervious gloves and protective clothing appropriate for the risk of exposure.

Working solution: Wear impervious gloves.

Recommended Decontamination Facilities: Eye bath, washing facilities, safety shower

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical Form: Liquid
 - Color:
 - Part A: Light yellow
 - Working solution: Amber
 - Odor:
 - Part A: Odorless
 - Working solution: Slight
 - Specific Gravity (water = 1):
 - Part A: 1.18
 - Working solution: 1.037-1.043
 - Vapor Pressure at 20 C (68 F): 24 mbar (18 mm Hg)
 - Vapor Density (Air = 1): 0.6
 - Volatile Fraction by Weight:
 - Part A: 80-85%
 - Working solution: 90-95%
 - Boiling Point: >100 C (>212 F)
 - Solubility in Water: Complete
 - pH:
 - Part A: > 13.0
 - Working solution: 11.6-11.8
 - Flash Point: None, noncombustible liquid
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10. STABILITY AND REACTIVITY

Stability: Stable

Incompatibility:

Part A: Acids

MATERIAL SAFETY DATA SHEET

200001246/F/USA - N-0005.500C

Approval Date: 07/08/1992

Print Date: 07/11/1992

Page 5

Working solution: None with common materials and contaminants with which the material may reasonably come into contact.

Hazardous Decomposition Products: Oxides of phosphorous

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Effects of Exposure:

Inhalation: Low hazard for recommended handling.

Eyes:

Part A: Causes burns.

Working solution: Causes irritation.

Skin:

Part A: Causes burns.

Working solution: Causes irritation. May cause allergic skin reaction.

Ingestion:

Part A: Harmful if swallowed. May cause burns of the gastrointestinal tract if swallowed.


Working solution: Expected to be a low ingestion hazard. May cause irritation of the gastrointestinal tract.

12. ECOLOGICAL INFORMATION

Introduction: This environmental effects summary is written to assist in addressing emergencies created by an accidental spill which might occur during the shipment of this material, and, in general, it is not meant to address discharges to sanitary sewers or publically owned treatment works.

Summary: Data for the major components of this material have been used to estimate the environmental impact of this material. However, this material, itself, has not been tested for environmental effects. This material is a strongly alkaline aqueous solution, and this property may cause adverse environmental effects.

It is expected to have the following properties: a low biochemical oxygen demand and little potential to cause oxygen depletion in aqueous systems, a



E000033-3-21-67

MATERIAL SAFETY DATA SHEET

200001246/F/USA - N-0005.500C

Approval Date: 07/08/1992

Print Date: 07/11/1992

Page 6

low potential to affect aquatic organisms, a low potential to affect secondary waste treatment microbial metabolism, a low potential to bioconcentrate. When diluted with a large amount of water, this material released directly or indirectly into the environment is not expected to have a significant impact.

13. DISPOSAL CONSIDERATIONS

Discharge, treatment, or disposal may be subject to national, state, or local laws. Flush to sewer with large amounts of water.

14. TRANSPORT INFORMATION

- For transportation information regarding this product, please phone the Eastman Kodak Distribution Center nearest you: Rochester, NY (716) 588-3536 or 588-3573 or 588-3035; Oak Brook, IL (312) 954-6000; Chamblee, GA (404) 455-0123; Dallas, TX (214) 241-1611; Whittier, CA (213) 945-1255; Honolulu, HI (808) 833-1661.

15. 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

- Carcinogenicity Classification (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 and Health Administration (OSHA): None

- 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

16. OTHER INFORMATION

US/Canadian Label Statements:

Part A:

CONTAINS: Potassium hydroxide (001310-58-3)
DANGER!
CAUSES SKIN AND EYE BURNS
HARMFUL IF SWALLOWED

Do not get in eyes, on skin, on clothing.

MATERIAL SAFETY DATA SHEET

200001246/F/USA - N-0005.500C

Approval Date: 07/08/1992

Print Date: 07/11/1992

Page 7

Wash thoroughly after handling.

FIRST AID: If swallowed, do NOT induce vomiting. Give victim a glass of water. Never give anything by mouth to an unconscious person. In case of contact, immediately flush eyes and skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician or poison control center immediately. Wash clothing before reuse. Destroy or thoroughly clean contaminated shoes.

Keep out of reach of children.

For additional information, see Material Safety Data Sheet (MSDS) for this material.

Working solution:

CONTAINS: 4-(N-ethyl-N-2-methanesulfonylaminoethyl)-2-methylphenylenediamine sesquisulfate monohydrate (025646-71-3)

WARNING!

CAUSES SKIN AND EYE IRRITATION

MAY CAUSE ALLERGIC SKIN REACTION

Avoid contact with eyes, skin, and clothing.

Wash thoroughly after handling.

FIRST AID: In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. In case of skin contact, wash skin with soap and plenty of water. Get medical attention. Remove contaminated clothing and shoes. Wash clothing before reuse. Destroy or thoroughly clean contaminated shoes.

Keep out of reach of children.

For additional information, see Material Safety Data Sheet (MSDS) for this material.

The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment.

E000033-3-20-67