### MATERIAL SAFETY DATA SHEET

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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Product Name: KODAK Microfilm Developer and Replenisher

Catalog Number(s): 190 190 190 177 0901 8869 1917 1891 То To Make Make gallon(s) gallon(s 400 40 gallon(s) gallon(s) s) (U.S.) (u.s.) (u.s.) (u.s

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

E000003-5-03-04

For Emergency Health, Safety ģ Environmental Information, call: 716-722-515

Area or Other Information, cal1 the Marketing and Distribution Center 1:

Synonym(s) KAN 365776, PCD 4541, C-0196.500, C-0097.00C

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

Weight % - Component - (CAS Registry No.)
50-55 Water (007732-18-5)
20-25 Potassium sulfite (010117-38-1)
5-10 Diethylene glycol (000111-46-6)
8 Hydroquinone (000123-31-9)
1-5 Potassium hydroxide (001310-58-3)

### 3. HAZARDS IDENTIFICATION

CAUSES HARMFUL CAUSES CONTAINS: CAUSE ALLERGIC SKIN EYE Ę Hydroquinone SWALLOWED BURNS IRRITATION SKIN (000123 -REACTION 9 Potassium hydroxide (001310-58-3)

### FIRST-AID MEASURES

symptoms Inhalation: If persist symptomatic, move o to fresh air. Get medical attenti On **⊥.** 

medical attention flush immediately. with plenty of water for at least 5 minutes. Get

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thoroughly Skin: Immediately remove contaminated clothing and shoes and plenty of water. Wash contaminated clothing before clean contaminated shoes. Get medical attention. reuse. and wash with Destroy or soap

anything by mouth to an unconscious person. Call a physician center immediately. Ingestion: Induce vomiting as directed by medical personnel. Never 01 poison give control

### TIRE FIGHTING MEASURES

Extinguishing Media: Water spray; Carbon dioxide (CO2); Dry chemical; cohol

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

Hazardous Combustion Products: Carbon dioxide, carbon monoxide oxides Off.

Unusual Fire and Explosion Hazards: None

# ACCIDENTAL RELEASE MEASURES

Flush to sewer with large amounts of

### HANDLING AND STORAGE

Use surfaces, gloves, nonalkaline Precautionary Measures: Avoid contact with eyes, adequate (acid) etc. ventilation. Wash thoroughly after handling. will help minimize type of hand cleaner and regular cleaning of working help minimize the possibility of a skin reaction skin, The routine use and clothing. reaction.

Prevention of Fire and Explosion: Keep from contact with oxidizing materials.

torage: Keep container closed. Keep away from incompatible substances

### œ **EXPOSURE** CONTROLS/PERSONAL PROTECTION

Exposure Limits:

ACGIH Threshold Limit Value (TLV):

Hydroquinone: N mg/m3

Potassium hydroxide: 2 mg/m3 TWA, Ceiling

Page w

OSHA (USA) Permissible Exposure Limit (PEL)

Hydroquinone:  $\sim$ mg/m3 TWA

Potassium hydroxide: 2 mg/m3 TWA, Ceiling

should be Ventilation: used. Good general Ventilation ventilation rates should (typically be matched 10 per hour

Respiratory Protection: None should be needed

Protection: Wear safety glasses with side shields (or goggles)

Skin Protection: Wear impervious gloves.

shower Recommended Decontamination Facilities: Eye bath, washing facilitie afety

#### 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Liquid

100

Color: : Light yellow Odorless

Specific Gravity (water

Vapor Pressure at 20 C (68 24 mbar

Vapor Density (Air

Volatile Fraction weight: 50

Boiling >100

Complete

Solubility in Water:

None

10. CT:BILITY AND

Stability: Stable

Incompatibility: Strong oxidizing agents, S trong acids

Hazardous Polymerization: Will not occur

11. ~GICAL INFORMATION

Effects of. Exposure:

Inhalation: Expected tο bе low hazard recommended handling.

Causes burns

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Skin: Causes irritation. May cause allergic skin reaction

Ingestion: Harmful if swallowed. May cause irritation of the trointestinal 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.

affect the germination and/or early growth of some plants, a low potential to persist in the environment. After dilution with a large amount of water, followed by secondary waste treatment, this material is not expected to cause moderate biochemical oxygen demand and may cause strongly alkaline aqueous solution, and this property may cause adverse environmental effects. However, this material, itself, has not been tested for adverse environmental effects. It is expected to have the following properties: estimate Summary: Data for the major components of this material have been used to fect secondary waste treatment microbial metabolism, a low potential to environmental effects. a high potential to affect some aquatic the environmental impact of this material. This material is a oxygen depletion in aqueous organisms, a low potential to

### 13. DISPOSAL CONSIDERATIONS

Flush be subject to national, with large amounts state, or of water. local laws. Discharge, treatment, or di. sposal

### 14. TRANSPORT INFORMATION

Eastman Kodak Distribution Center nearest you: Rochester, NY (716) 588-35 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; Honolul HI (808) 833-1661. transportation information regarding this product, please phone (716) 588-3536 Honolulu,

### 15. REGULATION INFORMATION

- Material(s) known Material(s) known effects: None known to the to the State of California to cause to the State of California to cause adverse C anc None reproductive
- Carcinogenicity Class ificati on (components present at 0 9 more)

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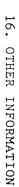
International G Agency 01 Cancer (IARC):

National American Toxicology Conference Program of Governmental (NTP): None Industrial Hygienists (ACGIH): None

None

Occupational Safety and Health Administration (OSHA): None

40 Chemi CFR of cal(s) Part the Superfund Amendments 372: Hydroquinone subject to the reporting and Reauthorization requirements of. Act Section 313 Act (SARA) o of 0 1986 and Title



US/Canadian Label Statements:

CONTAINS: Hydroquinone (000123 - 31 - 9)Potassium hydroxide (001310-58-3)

CAUSES HARMFUL CAUSES DANGER! SKIN EYE 描 BURNS SWALLOWED IRRITATION

CAUSE ALLERGIC SKIN REACTION

Do not get in ey Wash thoroughly in eyes after handling. and avoid contact with skin and clothing.

Keep out of reach of children.

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

Call minutes. eye contaminated shoes. clothing and shoes. personnel. FIRST AID: contact, physician or Never give anything case immediately swallowed, induce ó.f skin Wash clothing poison control flush contact, eyes with plenty of water by mouth to an unconscious vomiting before reuse. Destroy wash center skin with soap immediately as directed by medical immediately. and plenty of water Remove contaminated or thorough for at least person. In case clean of

Additional hazard precautions or 5 pounds of solid: pounds for containers greater than <del>---</del> gallon 0f liquid

Since after empti 0 ed containers retain product residue, follow label warni Sgul even

alcohol IN CASE foam. OF FIRE: Use water spray, carbon dioxide (co2), dry chemical,

waste IN CASE OF SPILL: container. Flush Absorb orb spill with residual spil spill inert material, or area with water then place For large in a chemical spills

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streams. dike for later disposal. Prevent runoff from entering drains, sewers, and

completeness of in of these materials gathered by them and must make independent determinations of suitability and The information contained herein is furnished without Users should consider these data only as a supplement protection 0 f information environment. from all sources health of supplement to other t o employees assure proper warranty of any kind. and customers use information and disposal