Service

MATERIAL SAFETY DATA SHEET

E000202-5-03-04

Product Name:

Page

Approval Date: 07/01/1992 Print Date: 07/04/1992

200000586/F/USA

D-0014.000K

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

KODAK Microfilm Fixer and Replenisher

Catalog Number(s): 190 190 1164 7222 1149 5 gallon(s)
50 gallon(s) (u.s.) (U.S.)

817

4

gallon(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

Synonym(s):Concentrate: Working solu solution KAN (1:2,427768, 1:3, PCD 1:7): 4860, D-0014.000 KAN 471417, D-0700.000

2. COMPOSITION/INFORMATION ON INGREDIENTS

Weight % Component (CAS Registry No.)

the last large

Concentrat

40-45 40-50 $1-5 \\ 1-5$ 5 - 10Water Sodium Ammonium thiosulfate (007732 - 18 - 5)acetate (000127-09-3) (000064-19-7)(007783 - 18 - 8)

Sodium metabisulfite

(007681-57-4)

Acetic

acid

olution:

Working 90-95 5 - 10٨ Sodium Sodium acetate (000127-09-3) Ammonium thiosulfate Water (007732 - 18 - 5)sulfite (007757 - 83 - 7)(007783 - 18 - 8)

w **HAZARDS** IDENTIFICATION

LOW HAZARD FOR RECOMMENDED HANDLING

FIRST-AID MEASURES

symptoms Inhalation: persist Ι£ symptomatic, точе to fresh air. Get medical attention

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HI (808)833-1661.

15. REGULATORY INFORMATION

- Material(s) known to the cause cancer: None
- effects: None Material(s) known to the State off. f California f California to to caµse"adverse reproductive
- Carcinogenicity Classification (components Agency for Research on Cancer (IARC): 0.1% or more)

E000265-2-01-04

- International None
- American Conference of Governmental Industrial Hygienists (ACGIH):
- Occupational Safety National Toxicology and Health Administration (OSHA): None Program (NTP): None
- Chemical(s) 40 CFR Part o f the Superfund Amendments 372: None subject to the reporting and Reauthorization requirements of Section 313 Act (SARA) 0f 0,7 1986 Title and

16. OTHER INFORMATION

US/Canadian Label Statements:

LOW HAZARD FOR RECOMMENDED HANDLING

Additional hazard precautions or 5 pounds of solid: pounds for containers greater than **,...** gallon 0f liquid

was IN CASE te container. OF SPILL: Prevent Absorb spil1 runoff with inert from entering material drains then place sewers, and in streams ρ chemical

out o H reach of children.

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

completeness of gathered by these protection of information contained herein should consider these data mater them information from all and must make the environment. safety and health independent only as is furnished without sources а determinations supplement 0 employees assure to other warranty proper and 0f suitability customers use 0 f information any kind.

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water. Eyes: Any Get material medical that attention if contacts symptoms the eye occur. should be washed out immediately with

Skin: Wash with goap and water. Get medical attention 1£ symptoms occur

Ingestion: Drink 1-2glasses of water Seek medic al attention

5. FIRE FIGHTING MEASURES

Extinguishing Media: Use appropriate agent for adjac ent fi.

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

Decomposition Products) Combustion Products: None (noncombustible) S ø O also Hazardous

Unusual Fire and Explosion Hazards: None

6. ACCIDENTAL RELEASE MEASURES

Flush to sewer with large amounts of water.

7. HANDLING AND STORAGE

thoroughly Personal Precautionary Measures: after handling. Use with adequate ventilation. Wash

Prevention of Fire and Explosion: None

Storage: Keep container closed. Keep away Ηħ rom incompatible substances

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

ACGIH Threshold Limit Value (TLV):

Acetic acid: 10 ppm TWA, 15 ppm STEL

Sodium metabisulfite: 5 mg/m3 TWA

OSHA (USA) Permissible Exposure Limit (PEL):

Acetic acid: 10 ppm TWA

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Sodium metabisulfite: S mg/m3 TWA

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

includes sonal Protection: preventing eye Good industrial hygiene peye contact and minimizing practi skin Ce contact should and bе inhalation. followed which

Respiratory Protection: None should bе needed

O ontact. Protection: Wear safety glasses Ιt ı, ø good industrial with side s l hygiene shields (or practice goggles) cr 0 minimize

impervious contact. For Skin Protection: gloves operations where It is should be good Worn prolonged industrial 10 hygiene repeated skin practice contact to minimize may occur skin

Recommended Decontamination Facilities: Eye bath, washing facilities safety

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Liquid

Color: Colorless light yellow

Odor:

Specific Concentrate: Slight fic Gravity (water 1.316 1):

Working solution: 1.04

Pressure at 20 C (68 F): 24 mbar (18 mm Hg)

Vapor Density (Air 1): 0 9

Volatile Fraction by Weight:

Concentrate: 45%

Working solution: 93%

Boiling Point: >100 0 (>212

Solubility in Water: Complete

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Concentrate: 5. W

Working solution: 5.2

Flash Point: None, noncombustible liquid

10. STABILITY DNA REACTIVITY

Stability: Stable

Incompatibility: Contact with acid liberates flammable material, harmful

dioxide Hazardous Decomposition Products Ammonia, nitrogen oxides (x0N) sulfur

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Hazardous Polymerization: Will not occur

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11. TOXICOLOGICAL INFORMATION

Effects of Exposure:

Inhalation: Expected to ъe ы low hazard for recommended handling

Eyes: No specific hazard known. May cause transient irritation

Skin: Low hazard for recommended handling.

Ingestion: Expected to be a low ingestion hazard.

12. ECOLOGICAL INFORMATION

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

persist in the environment followed by secondary systems, moderate biochemical oxygen demand environmental environmental effects. moderately acidic estimate Summary: adverse the secondary waste environmental effects. Data for the major a low potential to affect the environmental germination and/or early growth of some the environment. After dilution with a effects. aqueous solution, and this property may cause waste Ιt treatment microbial However, 1 S impact of this components treatment, expected to have the this material, aquatic and may o f this material material. this material have been used of some metabolism, organisms, a cause itself, oxygen large amount of ial is not expec following properties: plants, This material is a moderate potential has not been tested low potential depletion a low potential to expected adverse to aqueous ы cause for

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

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 Eastman Kodak Distribution Center nearest transportation informat 1 on regarding this you: product, Rochester, NY please (716)Henolulu 588-3536