

MATERIAL SAFETY DATA SHEET

200001273/F/USA - N-0019.000H

Approval Date: 07/08/1992

Print Date: 07/11/1992

Page 1

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: KODAK Reversal Bath, Process E-6

Catalog Number(s): 156 6553 - Kit(s), To Make 1 gallon(s) (U.S.)
 156 6850 - 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): Concentrate: KAN 355080; PCD 3992; N-0019.000
 Working solution: KAN 965673

2. COMPOSITION/INFORMATION ON INGREDIENTS

Weight % - Component - (CAS Registry No.)

Concentrate:

65-70 Water (007732-18-5)
15-20 Sodium propionate (000137-40-6)
5-10 Substituted phosphonate (002235-43-0)
5-10 Substituted phosphonate (006419-19-8)
1-5 Propionic acid (000079-09-4)
1-5 Stannous chloride (007772-99-8)

Working solution:

95-100 Water (007732-18-5)
1-5 Sodium propionate (000137-40-6)
< 1 Substituted phosphonate (002235-43-0)
< 1 Substituted phosphonate (006419-19-8)
< 1 Propionic acid (000079-09-4)
< 1 Stannous chloride (007772-99-8)

3. HAZARDS IDENTIFICATION

LOW HAZARD FOR RECOMMENDED HANDLING

4. FIRST-AID MEASURES

E000033-3-06-67

MATERIAL SAFETY DATA SHEET

200001273/F/USA - N-0019.000H

Approval Date: 07/08/1992

Print Date: 07/11/1992

Page 2

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

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

Skin: Wash with soap and water. Get medical attention if symptoms occur.

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

5. FIRE FIGHTING MEASURES

Extinguishing Media:

Concentrate: Water spray, carbon dioxide (CO2), dry chemical, alcohol foam

Working solution: Use appropriate agent for adjacent fire.

Special Fire-Fighting Procedures:

Concentrate: Wear self-contained breathing apparatus and protective clothing.

Working solution: None (noncombustible)

Hazardous Combustion Products:

Concentrate: Carbon dioxide, carbon monoxide, oxides of phosphorous

Working solution: None (noncombustible)

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: Use with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion:

Concentrate: Keep from contact with oxidizing materials.

Working solution: No special precautionary measures should be needed under

MATERIAL SAFETY DATA SHEET

200001273/F/USA - N-0019.000H

Approval Date: 07/08/1992

Print Date: 07/11/1992

Page 3

anticipated conditions of use.

Storage: Keep container closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

ACGIH Threshold Limit Value (TLV):

Propionic acid: 10 ppm TWA

Stannous chloride as Sn: 2 mg/m³ TWA

OSHA (USA) Permissible Exposure Limit (PEL):

Propionic acid: 10 ppm TWA

Stannous chloride as Sn: 2 mg/m³ TWA

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

Personal Protection: Good industrial hygiene practice should be followed which includes preventing eye contact and minimizing skin contact and inhalation.

Respiratory Protection: None should be needed.

Eye Protection: It is a good industrial hygiene practice to minimize eye contact. Wear safety glasses with side shields (or goggles).

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

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

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical Form: Liquid

- Color: Colorless

- Odor:

Concentrate: Slight, sweet

Working solution: Odorless

- Specific Gravity (water = 1):

Concentrate: 1.203

Working solution: 1.009-1.015

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

E000033-3-05-67

MATERIAL SAFETY DATA SHEET

200001273/F/USA - N-0019.000H

Approval Date: 07/08/1992

Print Date: 07/11/1992

Page 4

-
- Vapor Density (Air = 1): 0.6
 - Volatile Fraction by Weight:
 - Concentrate: 65-70%
 - Working solution: 95-100%
 - Boiling Point: >100 C (>212 F)
 - Solubility in Water: Complete
 - pH:
 - Concentrate: 5.9
 - Working solution: 5.7-5.9
 - Flash Point:
 - Concentrate: None
 - Working solution: None, noncombustible liquid
-

10. STABILITY AND REACTIVITY

Stability: Stable

Incompatibility:

Concentrate: Strong oxidizing agents

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

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Effects of Exposure:

Inhalation: 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

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.

MATERIAL SAFETY DATA SHEET

200001273/F/USA - N-0019.000H

Approval Date: 07/08/1992

Print Date: 07/11/1992

Page 5

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.

It is expected to have the following properties: a moderate biochemical oxygen demand and may cause oxygen depletion in aqueous systems, a low potential to affect aquatic organisms, a low potential to affect secondary waste treatment microbial metabolism, a moderate potential to affect the germination and/or early growth of some plants, 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:

LOW HAZARD FOR RECOMMENDED HANDLING

E000033-3-04-67

MATERIAL SAFETY DATA SHEET

200001273/F/USA - N-0019.000H

Approval Date: 07/08/1992

Print Date: 07/11/1992

Page 6

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.