

Kodak

TAKE PICTURES. FURTHER.™

**Material Safety Data Sheets****KODAK EKTAFL0 Stop Bath**

## MATERIAL SAFETY DATA SHEET

200001036/F/USA

Approval Date: 08/21/2001

Print Date: 01/25/2003

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: KODAK EKTAFL0 Stop Bath

Catalog Number(s): 140 4011 - 1 gallon (U.S.)

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

For Emergency Health, Safety &amp; Environmental Information, call (585) 722-5151

For other information or to request an MSDS, call (800) 242-2424.

Synonym(s): Concentrate: KAN 354758; PCD 2889; I-0004.000  
Working solution: KAN 965988

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Weight % - Component - (CAS Registry No.)

Concentrate:

50-55 Acetic acid (000064-19-7)  
45-50 Water (007732-18-5)  
< 1 Bromocresol purple (000115-40-2)

Working solution:

95-100 Water (007732-18-5)  
1-5 Acetic acid (000064-19-7)  
< 0.1 Bromocresol purple (000115-40-2)

## 3. HAZARDS IDENTIFICATION

Concentrate:

CONTAINS: Acetic acid (000064-19-7)

DANGER!

POISON

MAY BE FATAL OR HARMFUL IF SWALLOWED

VAPOR EXTREMELY IRRITATING TO THE EYES AND RESPIRATORY TRACT

CAUSES SEVERE SKIN AND EYE BURNS

HMIS Hazard Ratings:

Health - 3 , Flammability - 0, Reactivity - 0, Personal Protection - H

NFPA Hazard Ratings:

Health - 2, Flammability - 0, Reactivity (Stability) - 0

Working solution:

CONTAINS: Acetic acid (000064-19-7)

WARNING!

CAUSES EYE IRRITATION

HMIS Hazard Ratings:

Health - 0 , Flammability - 0, Reactivity - 0, Personal Protection - A

NFPA Hazard Ratings:

Health - 0, Flammability - 0, Reactivity (Stability) - 0

NOTE: HMIS and NFPA hazard indexes involve data review and interpretation that may vary among companies. They are intended only for rapid, general identification of the magnitude of the potential hazards. The personal protection index is only intended for general guidance on personal protection equipment (PPE) that is suitable for the potential hazards of the material. PPE (e.g., respirators) may not be needed if engineering controls (e.g., local ventilation) are adequate. An asterisk (\*), in the HMIS health field, designates potential chronic or target organ hazards. To adequately address safe handling, ALL information in this MSDS must be considered.

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#### 4. FIRST-AID MEASURES

##### Inhalation:

Concentrate: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.

Working solution: If symptomatic, move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.

##### Eyes:

Concentrate: 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 if symptoms occur.

##### Skin:

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

Working solution: Wash with soap and water. Get medical attention if symptoms occur. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

##### Ingestion:



Concentrate: 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. Never give anything by mouth to an unconscious person.

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#### 5. FIRE FIGHTING MEASURES

Extinguishing Media: 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: None (noncombustible)

Unusual Fire and Explosion Hazards: None

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#### 6. ACCIDENTAL RELEASE MEASURES

Concentrate: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination.

Working solution: Flush to sewer with large amounts of water.

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#### 7. HANDLING AND STORAGE

Personal Precautionary Measures:

Concentrate: Do not breathe vapor at concentrations greater than the exposure limits. Do not get in eyes, on skin, on clothing. Use only with adequate ventilation. Wash thoroughly after handling.

Working solution: Avoid breathing vapor at concentrations greater than the exposure limits. Avoid contact with eyes and prolonged or repeated contact with skin. Use with adequate ventilation. Wash thoroughly after handling.

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

Storage:

Concentrate: Keep container closed. Keep away from incompatible substances (see Incompatibility section).

Working solution: Keep container closed.

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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

ACGIH Threshold Limit Value (TLV):

Acetic acid: 10 ppm TWA, 15 ppm STEL

OSHA (USA) Permissible Exposure Limit (PEL - 1971 Table Z-1 Values):

Acetic acid: 10 ppm TWA

Ventilation:

Concentrate: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

Working solution: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances such as poorly ventilated spaces, evaporation from large surfaces, spraying, heating, etc.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. Respirator type: Full-face organic vapor cartridge. If respirators are used, a program should be instituted to assure compliance with OSHA Standard 29 CFR 1910.134.

Eye Protection:

Concentrate: If a full-face respirator is not worn, wear vapor-tight chemical goggle and a face shield.

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

Skin Protection: Wear impervious gloves and protective clothing appropriate for the risk of exposure.

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

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Liquid

Color: Colorless

Odor:

Concentrate: Sharp vinegar

Working solution: Vinegar

Specific Gravity (water = 1):

Concentrate: 1.06

Working solution: 1.00-1.01

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

Vapor Density (Air = 1):

Concentrate: 0.7

Working solution: 0.6

Volatile Fraction by Weight: 100%

Boiling Point: >100°C (>212°F)

Solubility in Water: Complete

pH:

Concentrate: 2.0

Working solution: 2.8

Flash Point: None, noncombustible liquid

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## 10. STABILITY AND REACTIVITY

Stability: Stable

Incompatibility:

Concentrate: Bases

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

Hazardous Polymerization: Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

Effects of Exposure:

General:

Concentrate: Acute overexposure to extremely high airborne concentrations of respiratory irritants has been associated with development of an asthma-like reactive airways syndrome (RADS) in susceptible individuals. Extremely high airborne concentrations are not generated during normal conditions of use but may occur following a spill. The potential to generate extremely high airborne concentrations in a spill situation depends upon physical factors such as the concentration of the solution, the volume of the spill, the surface area of the spill, the size of the room where the spill occurred, and the ventilation rate in the room.

Inhalation:

Concentrate: Vapor extremely irritating.

Working solution: Low hazard for usual industrial handling by trained personnel.

Eyes:

Concentrate: Causes severe burns. Vapor extremely irritating.

Working solution: Causes irritation. However, immediate flushing of the eyes with water will minimize any irritative effect.

Skin:

Concentrate: Causes severe burns.

Working solution: Low hazard for usual industrial handling by trained personnel.

Ingestion:

Concentrate: May be fatal or harmful if swallowed. May cause burns of the gastrointestinal tract if swallowed.

Working solution: Expected to be a low ingestion hazard.

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12. ECOLOGICAL INFORMATION

The following properties are ESTIMATED from the components of the preparations.

	Concentrate	Working Solution
Potential Toxicity		
Fish LC50 mg/l:	>100	>100
Daphnid EC50 mg/l:	10-100	>100
Algal IC50 mg/l:	>100	>100
Organics Readily Degradable (>70%):	Yes (7 days)	Yes (7 days)
Potential Bioaccumulation:	Log Pow <1	Log Pow <1
COD (approximate g/l):	546	17
BOD5 (approximate g/l):	392	12
Potential Toxicity Waste treatment microorganisms EC50 (mg/l):	>100	>100

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13. DISPOSAL CONSIDERATIONS

Discharge, treatment, or disposal is subject to national, state, or local laws. Contract with a licensed chemical disposal agency.

Concentrate: Since emptied containers retain product residue, follow label warnings even after container is emptied.

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14. TRANSPORT INFORMATION

For transportation information regarding this product call the Kodak Worldwide Transportation Hazmat Hot Line: (585) 722-2400 between 8 a.m. and 5 p.m. (Eastern Standard Time), Monday through Friday.

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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

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16. OTHER INFORMATION

## US/Canadian Label Statements:

## Concentrate:

CONTAINS: Acetic acid (000064-19-7)

DANGER!

POISON

MAY BE FATAL OR HARMFUL IF SWALLOWED

CAUSES SEVERE SKIN AND EYE BURNS

VAPOR EXTREMELY IRRITATING TO THE EYES AND RESPIRATORY TRACT

Do not breathe vapor at concentrations greater than the exposure limits.

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

Keep container closed.

Use only with adequate ventilation.

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. Call a physician or poison control center immediately. If inhaled, move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush eyes and skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

Keep out of reach of children.

Do not handle or use until safety precautions in Material Safety Data Sheet (MSDS) have been read and understood

Additional hazard precautions for containers greater than 1 gallon of liquid or 5 pounds of solid:

Absorb spill with inert material, then place in a chemical waste container. Prevent runoff from entering drains, sewers, and streams.

Since emptied containers retain product residue, follow label warnings even after container is emptied.

## Working solution:

Contains: Acetic acid (000064-19-7)

WARNING!

CAUSES EYE IRRITATION

Avoid breathing vapor at concentrations greater than the exposure limits.

Avoid contact with eyes and prolonged or repeated contact with skin.

Use with adequate ventilation.

Wash thoroughly after handling.

FIRST AID: In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.

Keep out of reach of children.

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



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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.

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R-2, S-3, F-0, C-0

WS:R-1, S-1, F-0, C-0



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