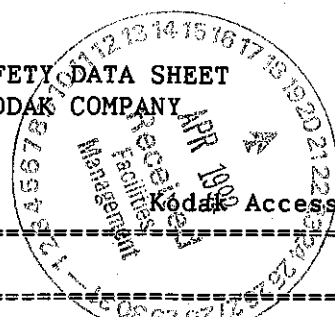


MATERIAL SAFETY DATA SHEET  
EASTMAN KODAK COMPANY



Date of Preparation: 04/08/91

Kodak Accession Number: 471329

PRODUCT INFORMATION

Product Name: KODAK Rapid Fixer (Working solution film strength)  
(This information describes the freshly made working solution when prepared according to the products mixing instructions.)

Formula: Aqueous Mixture

Kodak Catalog Number(s): CAT 186 6342; CAT 128 2839; CAT 197 3247; CAT 146 4114; CAT 146 4106

Solution Number: Part A - 4896; Part B - 4415

Kodak Hazard Rating Codes: R: 1 S: 1 F: 0 C: 0

Manufacturer/Supplier:

Eastman Kodak Company

343 State Street

Rochester, New York 14650

USA

For Emergency Information: (716) 722-5151

For other purposes, call the Marketing and Distribution Center in your area.

COMPONENT INFORMATION

	Weight Percent	CAS Number	Accession Number
Water	80-85	7732-18-5	035290
Ammonium thiosulfate	10-15	7783-18-8	909586
Sodium acetate	1-5	127-09-3	900227
Boric acid	LT 1	10043-35-3	901064
Ammonium sulfite	LT 1	10196-04-0	063434
Acetic acid	LT 1	64-19-7	900763

PRECAUTIONARY LABEL STATEMENTS

LOW HAZARD FOR RECOMMENDED HANDLING. Keep out of reach of children.

PHYSICAL DATA

Appearance and Odor: Clear solution; slight sulfur dioxide odor

Boiling Point: GT 100 C (GT 212 F) @ 760 mmHg

Vapor Pressure: ca. 18 mmHg @ 20 C

Evaporation Rate (n-butyl acetate = 1): ca. 0.4

Vapor Density (Air = 1): ca. 0.6

Volatile Fraction by Weight: ca. 85 %

Specific Gravity (H2O = 1): 1.087

pH: approx. 4.4

Solubility in Water (by Weight): Complete

GT = Greater than; LT = Less than

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**FIRE AND EXPLOSION HAZARD**

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**FLASH POINT:** None, noncombustible

**EXTINGUISHING MEDIA:** Use appropriate agent for surrounding fire.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained breathing apparatus and protective clothing.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Fire or excessive heat may cause production of hazardous decomposition products.

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**REACTIVITY DATA**

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**STABILITY:** Stable

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

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may produce oxides of nitrogen, sulfur, and ammonia gas.

**CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION:** Will not occur.

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**TOXICOLOGICAL PROPERTIES**

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**EXPOSURE LIMITS:** Not Applicable

**EXPOSURE EFFECTS:**

**Inhalation:** Low hazard for recommended handling. However, in poorly ventilated areas small amounts of acetic acid and sulfur dioxide may cause mucous membrane irritation or may cause a respiratory reaction in some asthmatics.

**Eyes:** No specific hazard known. May cause transient irritation.

**Skin:** Low hazard for recommended handling.

**Ingestion:** Expected to be a low ingestion hazard.

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**PROTECTION AND PREVENTIVE MEASURES**

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**VENTILATION:** Good ventilation\* should be sufficient. Supplementary ventilation or respiratory protection may be needed in special circumstances.

\*Typically, 10 room volumes per hour is considered good general ventilation: ventilation rates should be matched to conditions of use.

**SKIN AND EYE PROTECTION:** Safety glasses with side shields should be worn. Safety glasses with side shields are recommended in industrial operations involving chemicals. If prolonged or repeated skin contact is necessary, impervious gloves or other protection may be required.

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STORAGE AND DISPOSAL

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SPECIAL STORAGE AND HANDLING PRECAUTIONS: None

SPILL, LEAK, AND DISPOSAL PROCEDURES: Flush material to sewer with large amounts of water. Discharge, treatment, or disposal may be subject to federal, state, or local laws.

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FIRST AID

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Inhalation: If symptomatic, remove to fresh air. Get medical attention if symptoms occur.

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

Skin: Wash after each contact. Get medical attention if symptoms occur.

Ingestion: If swallowed, drink 1-2 glasses of water. Seek medical attention.

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TRANSPORTATION

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For Transportation information regarding this product, please phone the Eastman Kodak Distribution Center nearest you: Rochester, NY (716) 588-3536 or 588-3573 or 588-3505; 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.

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PREPARATION INFORMATION

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Health and Environment Laboratories  
Eastman Kodak Company  
Rochester, New York 14652-3615

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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 the 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.

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D-0018.100  
91-0519