

MATERIAL SAFETY DATA SHEET
EASTMAN KODAK COMPANY

Date of Revision: 2/21/90

Kodak Accession Number: 354587

PRODUCT INFORMATION

Product Name: KODAK SII Activator

Formula: Aqueous Mixture

Kodak Catalog Number(s): CAT 186 5609 - 1 Quart; CAT 186 5567 - 2 1/2

Gallons; CAT 186 5542 - 5 Gallons

Solution Number: 554

Kodak Hazard Rating Codes: R: 1 S: 3 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	85-90	7732-18-5	035290
*Potassium hydroxide	5-10	1310-58-3	901383
Potassium sulfite	1-5	10117-38-1	907064
Sodium sulfite	1-5	7757-83-7	901148

*Principal Hazardous Component(s)

PHYSICAL DATA

Appearance and Odor: Off-white solution; odorless

Boiling Point: GT 100 C (GT 212 F)

Vapor Pressure: ca. 18 mmHg @ 20 C

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

Vapor Density (Air = 1): 0.6

Volatile Fraction by Weight: ca. 90 %

Specific Gravity (H2O = 1): 1.11

pH: GT 13.0

Solubility in Water (by Weight): Complete

FIRE AND EXPLOSION HAZARD

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.

GT = Greater than; LT = Less than

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REACTIVITY DATA

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Stability: Stable

Incompatibility: Strong acids

Hazardous Decomposition Products: Thermal decomposition may produce oxides of sulfur.

Hazardous Polymerization: Will not occur.

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TOXICOLOGICAL PROPERTIES

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EXPOSURE LIMITS:

Component: Potassium hydroxide

ACGIH TLV: 2 mg/m³-TWA, ceiling (ACGIH 1989-90)

OSHA PEL: 2 mg/m³-TWA, ceiling

EXPOSURE EFFECTS:

Inhalation: Low hazard for recommended handling.

Eyes: Causes eye burns.

Skin: Prolonged or repeated skin contact can cause skin burns.

Ingestion: Harmful if swallowed. Causes burns of the gastrointestinal tract.

TOXICITY DATA:

TEST	SPECIES	RESULT (1)
Skin Irritation	Guinea Pig	Severe irritation
Eye Irritation	Rabbit	Severe irritation

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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: Impervious gloves should be worn. Safety glasses with side shields or goggles are recommended.

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STORAGE AND DISPOSAL

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SPECIAL STORAGE AND HANDLING PRECAUTIONS: Keep container tightly closed and away from acids.

SPILL, LEAK, AND DISPOSAL PROCEDURES: Neutralize with sodium bisulfate. Flush material to an acid-free 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

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes and get prompt medical attention.

Skin: Immediately flush skin with plenty of water for at least 15 minutes and get medical attention if symptoms are present after washing. Remove contaminated clothing and shoes. Get medical attention. Destroy or thoroughly clean contaminated shoes.

Ingestion: If swallowed, do NOT induce vomiting. Immediately give victim a glass of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

ENVIRONMENTAL EFFECTS DATA

This environmental effects summary is written to assist in addressing emergencies created by an accidental spill, which might occur during the shipment of this product, and in general, it is not meant to address discharges to sanitary sewers or publically owned treatment works.

Some laboratory test data and published data are available for the major components of this formulation. Although this product, as such, has not been tested for environmental effects, the data, mentioned above, have been used to provide the following estimates of potential environmental impact, in the event of an accidental spill: (1-3)

This chemical formulation is a strongly alkaline aqueous solution, and this property is the only one expected to cause adverse environment effects. This chemical formulation has a low biological oxygen demand, and it is expected to cause little oxygen depletion in aquatic systems. It is expected to have a low potential to affect aquatic organisms, secondary waste treatment microorganisms, and the germination and growth of some plants. The components of this chemical formulation are not likely to bioconcentrate. If diluted with a large amount of water, a moderate quantity of this chemical formulation released into the environment is not expected to have a significant impact.

TRANSPORTATION

For Transportation information regarding this product, please phone the Eastman Kodak Distribution Center nearest you: Rochester, NY (716) 588-9293; Oak Brook, IL (312) 954-6000; Chamblee, GA (404) 455-0123; Dallas, TX (214) 241-1611; Whittier, CA (213) 693-5222; Honolulu, HI (808) 833-1661.

REFERENCES

1. Unpublished Data, Health and Environment Laboratories. Eastman Kodak Company, Rochester, New York.

2. Battelle's Columbus Laboratories, Water Quality Criteria Data Book - Vol. 3 - Effects of Chemicals on Aquatic Life - Selected Data from the Literature Through 1968, for the U.S. Environmental Protection Agency, Project No. 18050 GWV, Contract No. 68-01-007, May 1971.
3. Kodak Publication J-41, BOD5 and COD of Photographic Chemicals, Eastman Kodak Co., 1981.

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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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