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Photography

MATERIAL SAFETY DATA SHEET
EASTMAN KODAK COMPANY

Revised Date of Preparation: 01/19/88 Kodak Accession Number: 365592

PRODUCT INFORMATION

Product Name: KODAK SII Deactivator (Ready-to-Use)
Formula: Aqueous Mixture
Kodak Catalog Number(s): CAT 139 6878 - 1 Quart; CAT 124 3161 - 5 Gallons; CAT 139 6894 - 2 1/2 Gallons
Solution Number: 4270
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	55-65	7732-18-5	035290
Ammonium thiocyanate	15-20	1762-95-4	900433
Sodium acetate	5-10	127-09-3	900227
Acetic acid	5-10	64-19-7	900763
Sodium bisulfite	1-5	7631-90-5	900760
Zirconium acetate	1-5	7585-20-8	312600

PHYSICAL DATA

Appearance and Odor: Colorless to light pink solution; slight sulfur dioxide odor
Boiling Point: GT 100 C (GT 212 F) @ 760 mmHg
Vapor Pressure: approx 18 mmHg @ 20 C
Evaporation Rate (n-butyl acetate = 1): Not Available
Vapor Density (Air = 1): approx 0.6
Volatile Fraction by Weight: approx 70 %
Specific Gravity (H2O = 1): 1.15
pH: approx 4.4
Solubility in Water (by Weight): Complete

GT = Greater than; LT = Less than

FIRE AND EXPLOSION HAZARD

FLASH POINT: None
EXTINGUISHING MEDIA: Water spray, Dry chemical, Carbon dioxide, Alcohol foam.
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.

REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY: Alkali, mineral acids
HAZARDOUS DECOMPOSITION PRODUCTS: Combustion will produce carbon dioxide and probably carbon monoxide. Oxides of nitrogen and ammonia may also be present. Heating to decomposition may generate cyanide fumes.
CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: Will not occur.

TOXICOLOGICAL PROPERTIES

EXPOSURE LIMITS:
Component: Acetic acid
ACGIH TLV: 10 ppm-TWA (ACGIH 1988-89)
OSHA PEL: 10 ppm-TWA

EXPOSURE EFFECTS:
Inhalation: Low hazard for usual industrial handling.

Eyes: No specific hazard known to Eastman Kodak Company.However, any material that contacts the eye may be irritating.

Skin: Low hazard for usual industrial handling.

TOXICITY DATA

TEST	SPECIES	RESULT(1)
Skin Absorption LD50	Guinea Pig	1-2 mL/kg
Skin Irritation	Guinea Pig	Slight

PROTECTION AND PREVENTIVE MEASURES

VENTILATION: Good general ventilation should be sufficient.

SKIN AND EYE PROTECTION: None should be needed, but good industrial hygiene practice should be followed.

STORAGE AND DISPOSAL

SPECIAL STORAGE AND HANDLING PRECAUTIONS: Keep from contact with oxidizing materials. Keep container tightly closed and away from acids and alkali.

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.

FIRST AID

In case of eye contact, flush with plenty of water.

ENVIRONMENTAL EFFECTS DATA

Some laboratory test data and published data are available for the major components of this chemical formulation, and these data have been used to provide the following estimate of environmental impact: (1-7)

This chemical formulation has a moderate biological oxygen demand, and it may cause some oxygen depletion in aquatic systems. It is expected to have a low potential to affect aquatic organisms, secondary waste treatment microorganisms. The components of this chemical formulation are not likely to bioconcentrate. If diluted with a large amount of water, this chemical formulation released directly or indirectly into the environment is not expected to have a significant impact.

TRANSPORTATION

For Transporation 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. Verschueren, K., Handbook of Environmental Data on Organic Chemicals, Van Nostrand Reinhold Company, New York, N.Y., 1977.

3. Kodak Publication J-41, BOD5 and COD of Photographic Chemicals, Eastman Kodak Co., 1981.

4. 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.

5. Bringmann, G. and Kuehn, R., Z. Wasser Abwasser Forsch., 10(5), 161-6 (1977) (in German).

6. Juhnke, I. and Luedemann, D., Z. Wasser Abwasser Forsch., 11(5), 161-4 (1978) (in German).

7. McKee, J.E. and Wolf, H.W., Eds., Water Quality Criteria, State of California, Publication No. 3-A, 1963.

PREPARATION INFORMATION

Health and Environment Laboratories
Eastman Kodak Company
Rochester, New York 14650

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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