

MATERIAL SAFETY DATA SHEET
EASTMAN KODAK COMPANY

Date of Revision: 06/23/89

Kodak Accession Number: 354583

PRODUCT INFORMATION

Product Name: KODAK Hypo Clearing Agent

Formula: Solid Mixture

Kodak Catalog Number(s): CAT 153 3942 - To Make 1 1/4 Gallons; CAT 146 4262

- To Make 25 Gallons; CAT 146 4254 - To Make 5 Gallons; CAT 123 9060 - To

Make 160 Fluid Ounces (Canadian); CAT 124 0712 - To Make 5 Gallons (Canadian)

Solution Number: 515

Kodak's 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
Sodium sulfite	75-80	7757-83-7	901148
Sodium metabisulfite	15-20	7681-57-4	903498
Ethylenediaminetetraacetic acid tetrasodium salt	1-5	64-02-8	906253
Sodium citrate	1-5	68-04-2	905536

PHYSICAL DATA

Appearance and Odor: Powder; odorless

Melting Point: Not Available

Vapor Pressure: Negligible

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

Vapor Density (Air = 1): Not Applicable

Volatile Fraction by Weight: Negligible

Specific Gravity (H2O = 1): GT 1

Solubility in Water (by Weight): Appreciable

GT = Greater than; LT = Less than

F-0091.000C

82-1444

=====

FIRE AND EXPLOSION HAZARD DATA

=====

FLASH POINT: 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.

=====

REACTIVITY DATA

=====

STABILITY: Stable

INCOMPATIBILITY: Strong acids; Strong bases

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce oxides of sulfur.

HAZARDOUS POLYMERIZATION: Will not occur.

=====

TOXICOLOGICAL PROPERTIES

=====

EXPOSURE LIMITS:

Component: Sodium metabisulfite

ACGIH TLV: 5 mg/m³ - TWA (ACGIH 1988-89)

OSHA PEL: 5 mg/m³ - TWA

EXPOSURE EFFECTS:

Inhalation: Low hazard for recommended handling.

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

Skin: Low hazard for recommended handling.

Ingestion: Expected to be a low ingestion hazard.

TOXICITY DATA

TEST	SPECIES	RESULT(1)	CLASSIFICATION(2)
Acute Oral LD50	Rat	GT 1600 mg/kg	Slightly toxic

=====

PROTECTION AND PREVENTATIVE MEASURES

=====

VENTILATION: Good general ventilation should be sufficient.

SKIN AND EYE PROTECTION: Safety glasses should be worn in any type of industrial chemical handling.

=====

STORAGE AND DISPOSAL

=====

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

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

=====

FIRST AID

=====

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

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

=====

ENVIRONMENTAL EFFECTS

=====

This chemical formulation has not been tested for environmental effects. 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: 1,3,4,5,6

This chemical formulation has a moderate biological oxygen demand, and it is expected to cause some oxygen depletion in aquatic systems. It is expected to have a moderate potential to affect secondary waste treatment microorganisms and the germination of some plants. It is expected to have a low potential to affect aquatic organisms. The components of this chemical formulation are biodegradable and are not likely to bioconcentrate. When 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 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. Hodge, H.C., and Sterner, J.H., American Industrial Hygiene Association Quarterly. 10:93, 1949.
3. Verschueren, K., Handbook of Environmental Data on Organic Chemicals, Van Nostrand Reinhold Company, New York, N.Y., 1977.
4. Kodak Publication J-41, "BOD5 and COD of Photographic Chemicals", Eastman Kodak Co., 1981.
5. 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. 68-01-0007, May 1971.

F-0091.000C
82-1444

6. 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.

=====

F-0091.000C
82-1444

...