

MATERIAL SAFETY DATA SHEET

EASTMAN KODAK COMPANY
343 State Street
Rochester, New York 14650

Emergency Health, Safety, and Environmental Information, call (716) 722-5151
For other purposes, call the Marketing and Distribution Center in your area.

Preparation: 7/24/84 Approved by U.S. Department of Labor

IDENTIFICATION

Product Name: KODAK Hypo Clearing Agent
Formula: Solid Mixture
Kodak Photographic Chemicals 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 9050 - To Make 160 Fluid Ounces (Canadian); CAT 124 0712 - To Make 5 Gallons (Canadian)
Mixture Number: 515
Kodak Accession Number: 354583

PRODUCT AND COMPONENT HAZARD DATA

Component(s)	Weight Percent	TLV	Kodak Accession No.	CAS Reg. No.
Sodium sulfite	75-80	---	901148	7757-83-7
Sodium metabisulfite	15-20	5 mg/m ³	903498	7681-57-4
Ethylenediaminetetraacetic acid tetrasodium salt	1-5	---	906253	64-02-8
Sodium citrate	1-5	---	905536	68-04-2

PRECAUTIONARY LABEL STATEMENT(S):

LOW HAZARD FOR RECOMMENDED HANDLING

PHYSICAL DATA

Appearance and Odor: Powder; odorless
Melting Point: Not available for solid mixtures
Boiling Point: Not available for solid mixtures
Vapor Pressure: Negligible
Evaporation Rate (n-butyl acetate = 1): Negligible
Vapor Density (Air = 1): Not Applicable
Volatility Fraction by Weight: Negligible
Specific Gravity (H₂O = 1): > 1
Solubility in Water (by Weight): Appreciable

FIRE AND EXPLOSION HAZARD DATA

Non-combustible
Extinguishing Media: Not Applicable
Special Fire Fighting Procedures:
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Unusual Fire and Explosion Hazards:
Fire or excessive heat may cause production of hazardous decomposition products.

SECTION V. REACTIVITY DATA

- Stability: Stable
- Incompatibility: Mineral acids
- Hazardous Decomposition Products: Sulfur dioxide
- Hazardous Polymerization: Will not occur.

SECTION VI. TOXICITY AND HEALTH HAZARD DATA

- EXPOSURE LIMITS: See Section II
- EXPOSURE EFFECTS: Low hazard for recommended handling.
- FIRST AID: In case of eye contact, flush with plenty of water.
- TOXICITY DATA

Test	Species	Result	Classification
Acute Oral LD ₅₀	Rat	> 1600 mg/kg	Slightly Toxic

SECTION VII. PERSONAL PROTECTION AND CONTROLS

- RESPIRATORY PROTECTION: None should be needed.
- VENTILATION:
Local Exhaust: None should be needed.
Mechanical (General): Recommended
- SKIN AND EYE PROTECTION:
None should be needed, but good industrial hygiene practices should be followed.

SECTION VIII. SPECIAL STORAGE AND HANDLING PRECAUTIONS

Avoid contact with mineral acids.

SECTION IX. 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.

SECTION X. ENVIRONMENTAL EFFECTS DATA

A. SUMMARY:

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:

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.

SECTION XI. TRANSPORTATION

For transportation information regarding this product, please phone the Eastman Kodak Distribution Center nearest you: Rochester, NY (716) 254-1300; Oak Brook, IL (312) 684-5300; Chubbuck, CA (404) 455-0123; Dallas, TX (214) 241-1611; Whittier, CA (213) 946-1255; Honolulu, HI (808) 833-1641.

SECTION XII. REFERENCES

1. Toxicity results are from unpublished data, Health and Environment Laboratories, Eastman Kodak Company, Rochester, New York.
2. Hodge, N.C. and Sterner, J.M., American Industrial Hygiene Association Quarterly, 10, 93 (1949).
3. Verschuere, K., Handbook of Environmental Data on Organic Chemicals, Van Nostrand Reinhold Company, New York, N.Y., 1977.
4. Kodak Publication J-41, "800, and C80 of Photographic Chemicals", Eastman Kodak Co., 1981.
5. Battelle's Columbus Laboratories, Water Quality Critical Data Book - Vol. 3 - Effects of Chemicals on Aquatic Life - Selected Data from the Literature Through 1982, for the U.S. Environmental Protection Agency, Project No. 18050 GW, Contract No. 68-01-0007, May 1977.
6. Poulos, J.E. and Wolf, H.W. Eds., "Water Quality Criteria," State of California, Publication No. 3-A, 1983.

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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0123-8060*
0146-4294*
0146-4262*
0153-3842*
02-1444