



# MATERIAL SAFETY DATA SHEET

EASTMAN KODAK COMPANY  
343 State Street  
Rochester, New York 14650

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

Date of Preparation: 10/23/85  
Kodak Accession Number: 365556

## SECTION I. IDENTIFICATION

- Product Name: Kodak Anti-Calcium, No. 4
- Formula: Aqueous Mixture
- Kodak Photographic Chemicals Catalog Number(s): CAT 139 4220 - 51 1/4 Gallons;
- CAT 189 0797 - 1 1/4 Gallons
- Solution Number: 4074
- Kodak's Internal Hazard Rating Codes: R: 1 S: 1 F: 0 C: 0

## SECTION II. PRODUCT AND COMPONENT HAZARD DATA

A. COMPONENT(S):	Percent	TLV	Accession No.	CAS Reg. No.
Water	60-65	---	035290	7732-18-5
(Nitri)otris(methylene)trisphosphonic acid pentasodium salt	35-40	---	049335	2235-43-0

## B. PRECAUTIONARY LABEL STATEMENT(S):

LOW HAZARD -UR RECOMMENDED HANDLING

## SECTION III. PHYSICAL DATA

- Appearance and Odor: Clear, pale yellow solution; ammonia odor
- Boiling Point: > 100 °C (> 212 °F) @ 760 mmHg
- Vapor Pressure: ~ 18 mmHg @ 20 °C
- Evaporation Rate (n-butyl acetate = 1): Not Available
- Vapor Density (Air = 1): ~ 0.6
- Volatile Fraction by Weight: ~ 60 %
- Specific Gravity (H<sub>2</sub>O = 1): 1.4
- pH: ~ 10.2
- Solubility in Water (by weight): Complete

## SECTION IV. FIRE AND EXPLOSION HAZARD DATA

- Flash Point: None
- Extinguishing Media: Use agent appropriate for surrounding fire.
- Special Fire Fighting Procedures: None
- Unusual Fire and Explosion Hazards: None

## SECTION V. REACTIVITY DATA

- Stability: Stable
- Incompatibility: Strong oxidizers, strong acids
- Hazardous Decomposition Products: None
- Hazardous Polymerization: Will not occur.

85-0127

*ANTI Calcium #4*

## SECTION VI. TOXICITY AND HEALTH HAZARD DATA

- A. EXPOSURE LIMITS: Not Applicable
- B. EXPOSURE EFFECTS: Low hazard
- C. FIRST AID: In case of eye contact, flush with plenty of water.

## SECTION VII. PERSONAL PROTECTION AND CONTROLS

- A. VENTILATION: Good general ventilation should be sufficient.
- B. SKIN AND EYE PROTECTION: None should be needed, but good industrial hygiene practice should be followed.

## SECTION VIII. SPECIAL STORAGE AND HANDLING PRECAUTIONS

Keep from contact with oxidizing materials.  
Avoid strong acids.

## SECTION IX. SPILL, LEAK, AND DISPOSAL PROCEDURES

Flush material to 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 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. The components of this chemical formulation are not likely to bioconcentrate. If diluted with 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) 654-5300; Chamblee, GA (404) 455-0123; Dallas, TX (214) 241-1611; Whittier, CA (213) 945-1255; Honolulu, HI (808) 833-1661.

PHOTOGRAPHERS FORMULARY  
PO BOX 5105  
MISSOULA MT 59806

F-0014.000A  
85-0127

SECTION XII. REFERENCES

1. Toxicity results are from unpublished data, Health, Safety, and Human Factors Laboratory, 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 GW, Contract No. 68-01-007, May 1971.

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