MATERIAL SAVETY DATA STEET



RASTMAN 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: 7/30/83

Approved by U.S. Bepartment of Labor

SECTION I. IDENTIFICATION

Product Mane: KODAK Rapid Fixer, Part A

Formula: Aqueous Mixture

Kodak Photographic Chemicals Catalog Number(s): CAT 186 6342 - 52 Gallons; CAT 128 2839 - 30 Gallons; CAT 197 3247 - 5 Gallons; CAT 146 4114 - To Make 5 Gallons; CAT 146 4106 - To Make 1 Gallon

Solution Number: 4896

Kodak Accession Number: 427810

Wate	ONENT(S):	Percent	TLV	Accession No.	CAS keg. No.
	r	40-50			
	Water 40-50			035290	7732-16-5
Amno			909586	7765-16-8	
		40-50	AND THE RESERVE OF THE PERSON	907360	1105 20 0
Sodi	um acetate	5-10		900227	127-05-3
		< 5		901064	10043-35-3

B. PRECAUTIONARY LABEL STATEMENT(S):

Commercial Label

No health hazard warning language is meeded on the containers.

Bousehold Label

Contains boric acid

BARNETUL IF TAKEN INTERNALLY. CAUTION!

If swallowed, induce weniting.

Call a physician at same.

KEEP OUT OF THE BEACH OF CHILDREN

SECTION III. PHYSICAL DATA

- Appearance and Odor: Clear light yellow solution; slight sulfur dioxide and acetic acid odor
- Boiling Point: > 100 °C (> 212 °F) @ 760 mmhg
- Vapor Pressure: ~ 18 mmlig @ 20 °C
- Evaporation Rate (n-butyl acetate = 1): Not Available
- Vapor Density (Air = 1): ~ 0.6
- Volatile Fraction by Weight: ≈ 50 %
- Specific Gravity (H20 = 1): 1.305
- pH: 4.37
- Solubility in Water: Complete

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

- Flash Point: None
- 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: Strong alkali
- Hazardous Decomposition Products: Ammonia
- Hazardous Polymerization: Will not occur.

SECTION VI. TOXICITY AND HEALTH HAZARD DATA

- A. EXPOSURE LIMITS: Not Applicable
- B. EXPOSURE EFFECTS: Low hazard

Ingestion: Harmful if taken internally.

C. FIRST AID: In case of eye contact, flush with plenty of water.

Ingestion: If swallowed, if conscious, rinse mouth and induce womiting immediately by giving 1 or 2 glasses of water and touching back of throat with finger or blunt object. Never give anything by south to an unconscious person.

CALL A PHYSICIAN AT ONCE.

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SECTION VII. PERSONAL PROTECTION AND CONTROLS

- A. RESPIRATORY PROTECTION: None should be needed.
- B. VENTILATION:

Local Exhaust: None should be meeded.

Mechanical (General): Recommended.

C. SKIN AND EYE PROTECTION:

Mone should be needed, but good industrial hygiene practice should be followed.

SECTION VIII. SPECIAL STORAGE AND MANDLING PRECAUTIONS

Avoid contact with strong alkali.

SECTION IX. SPILL, LEAK, AND DISPOSAL PROCEDURES

Flush material to sever with large amounts of water. Discharge, treatment, or disposal may be subject to federal, state, or local laws.

SECTION X. ENVIRONMENTAL EFFECTS DATA

A. SUPPLARY:

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: 1,2,3,4

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

SECTION XI. TRANSPORTATION

Transportation information may be obtained by requesting an EXTERNAL TRANSPORTATION ADDENDUM sheet by catalog number(s) from Kodak Publications Data Services, Eastman Kodak Company, 343 State Street, Rochester, New York 14650.

SECTION XII. REFERENCES

- Toxicity results are from unpublished data, Health, Safety, and Human Factors Laboratory, Eastman Kodak Company, Bochester, New York.
- Verschueren, K., Handbook of Environmental Data on Organic Chemicals, Van Nostrand Reinhold Company, New York, N.Y., 1977.
- 3. Battelle's Columbus Laboratories, Water Quality Critical 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.
- 4. National Association of Photographic Manufacturers, Inc. and Hydroscience, Inc., Environmental Effects of Photoprocessing Chemicals, National Association of Photographic Manufacturers, Harrison, New York, 1974, 2 vols.

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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