NATERIAL SAFETY DATA SMEET

EASTMAN KODAK COMPANY 343 State Street Rochester, New York 14650

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

Revised Date of Preparation: 5/21/85

Form Approved by U.S. Department of Labor

SECTION 1. IDENTIFICATION

- Aqueous Nixture
- otographic Chemicals Catalog Mumber(s): CAT 146 4486 1 Quart; CAT 140 Gallon; CAT 146 4478 8 Qunces
- Kodak Accession Number: 354722

PRODUCT AND COMPONENT HAZARD DATA SECTION 11.

| CAS Reg. No. | 7732-18-5 | 7783-18-8 | 7757-83-7 | 10102-18-8 |
|------------------------|-----------|------------------------------|----------------|--------------------------|
| Kodak Accession No. | 035290 | 985606 | 901148 | 069450 |
| TIVe | i | ı | 1 | 0.2 mg/m² as Selenium |
| Weight | 25 | fate 25-30 | 9-10 | ş |
| A. COMPONENT(S): | Water | Amonium thiosulfate 25-30 | Sodium suifite | Sodius selenite |
| 4 | | | | |

*Principal Nazardous Component(s)

PRECAUTIONARY LABEL STATEMENT(S)

Comercial Label

CONTAINS: Sodium selenite RARNING

HARMFUL IF SHALLOWED THROUGH SKIN

Avoid prolonged or repeated contact with skin.

Wash thoroughly after handling.

First Aid: In case of skin contact, immediately wash with soap and plenty of water. If swallowed, if conscious, immediately rinse mouth and induce yomiting by giving 2 glasses of water and touching back of throat with

finger or blunt object. Call a physician immediately.

Household Label

*

CONTAINS: Sodium selenite

HAMPFUL IF ABSORBED THROUGH SKIN

Avoid prolonged or repeated contact with skin.

Wash thoroughly after handling.

First Add: In case of skin contact, immediately wash with scap and plenty of water. If swallowed, if conscious, immediately rinse wouth and induce oventing by giving 2 glasses of water and touching back of throat with finger or blunt object. Call a physician immediately.

KEEP OUT OF REACH OF CHILDREN.

SECTION 111. PHYSICAL DATA

Appearance and Odor: Clear, coloriess solution; characteristic mild unpleasant

Boiling Point: > 100 °C (> 212 °F) @ 760 mmHg Vapor Pressure: - 16 mmHg @ 20 °C

Not Available

Evaporation Rate (n-butyl acetate = 1):
Vapor Density (Air = 1): -0.6
Volatile Fraction by Weight: -55 %
Specific Gravity (M,0 = 1): 1.32

Solubility in Water (by Weight): 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 Mazards:

Fire or excessive heat may cause production of hazardous decomposition products.

SECTION V. REACTIVITY DATA

- Stability: Stable
- Incompatibility: Bases, strong mineral acids.
 Mazardous Decomposition Products: Ammonia and sulfur dioxide
 Mazardous Polymerization: Will not occur.

SECTION VI. TOXICITY AND HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: See Section !!

EXPOSURE EFFECTS:

Inhalation: Low hazard for usual industrial handling.

Eyes: May cause eye irritation.

Prolonged or repeated skin contact may cause skin irritation. May be absorbed through the skin. Skin

Ingestion: Maraful if swallowed

÷

G. FIRST AID

Eyes: Immediately flush ayes with plenty of mater and get medical attention.

Skin: Immediately wash skin with soap and plenty of mater.

ingestion: If smallowed, if conscious, induce vomiting immediately by giving 1 or 2 glasses of mater and touching back of throat with finger or blunt object. Never give anything by mouth to an unconscious person.

CALL A PHYSICIAN AS SOON AS POSSIBLE.

TOXICITY DATA

Classification Moderately toxic evidence at 10 mL/kg based on lack mortality, clinical signs and body Slight irritation 400-800 mg/kg weight changes Result Guinea Pig Rabbit Guinea Pig Species Oral LD., Skin Irritation Eye Irritation Skin Absorption 100

SECTION VII. PERSONAL PROTECTION AND CONTROLS

RESPIRATORY PROTECTION: None should be needed

VENTILATION:

Local Exhaust: None should be needed.

Recommended Mechanical (General):

SKIN AND EYE PROTECTION ü Protective gloves should be worn. Safety glasses should be worn. SECTION VIII. SPECIAL STORAGE AND HANDLING PRECAUTIONS

Avoid contact with acids and bases.

SPILL, LEAK, AND DISPOSAL PROCEDURES SECTION IX.

Flush material 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:

it may cause oxygen depietion in aquatic systems. It is expected to have a high potential to affect aquatic organisms and secondary maste treatment microcyanisms. The direct instantament discharge to a receiving body of water of an amount of this chemical formulation which will rapidly produce, by dilution, a final concentration of 2.0 mg/L or less is not expected to cause an adverse environmental effect. After This chemical formulation has a moderate biological oxygen demand, and treatment, the chemicals in this formulation are not expected to have dilution with a large amount of water, any adverse environmental impact.

SECTION XI. TRANSPORTATION

For transportation information regarding this product, please phone the Eastman Modak Distribution Center nearest you: Mochester, NY (716) 254-1300; Oak Brook, IL (312) 654-5300; Chamblee, GA (404) 455-0123; Daliae, TX (214) 241-1611; Whittier, CA (213) 945-1255; Monolulu, NI (808) 833-1661.

REFERENCES SECTION XII. Unpublished Data. Health, Safety, and human Factors Laboratory Eastman Kodak Company, Rochester, New York.

Nodge, H.C., and Sterner, J.H., Am. Indust. Myg. Asan. Quart. 10:93

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 GNY, Contract No. 68-01-007, Nay 1971. ä

MCKee, J.E. and Wolf, H.W., Eds., "Water Quality, Criteria," State of California, Publication No. 3-A, 1963. 4

Bringmain, G. and Kuehn, R., "Results of the Demaging Effect of Water Pollutants on Daphnia magna," Z. Wasser Abwasser Forsch., 10(5), 161-6 (1977) (in German). ė

Bringmann, G. and Kuehn, R., "Mesults of Toxic Action of Mater Pollutants on <u>Daphnia magna</u> (Straus) Tested by an improved Standardized Procedure," Z. Wasser Abwasser Forsch., 15(1), 1—6 (1982) (in German). ė.

The information contained Serein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and wust 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.

81-0067

#146-4486 #140-0936 #146-4478 #1-0067