MATERIAL SAFETY DATA SHEET utAtus (libral billikus estis eris billen en egis)

EASTMAN KODAK COMPANY Residence 343 State Street at a ready from the representation

Bloth Block Seems Co. T. J. Suby

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Rochester, New York 14650 not a rest to the

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

Date of Preparation: 1/11/83 Revised Approved by U.S. Department of Labor

SECTION I. **IDENTIFICATION**

- Product Name: KODAK MICRODOL-X Developer
 - Formula: Solid Mixture And Andrews Barries and Angel Dr. Bours and
 - Formula Date: 7/21/81
 - Kodak Photographic Chemicals Catalog Number(s): CAT 169, 1955 To Make 4 Ounces; CAT 196 9690 - To Make 1 Quart; CAT 196 9724 - To Make 1 Gallon; CAT 156 5647 - To Make 5 Gallons; CAT 123 00448 - To Make 1 Quart; CAT 123 0689 - To Make 128 Ounces
- Mixture Number: 202
 - Kodak Accession Number: 354531
 - Kodak Hazard Rating Codes: R: 1 S: 2 F: 0 C: 0

SECTION II. PRODUCT AND COMPONENT HAZARD DATA

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A. COMPONENT(S): Percent TLV(R) Accession No. CAS Reg. No. of the contract of the contrac

7757-83-7 សម្មានស្រស់ ស្រាប់ 901148 Sodium sulfite 70-80

Sodium chloride 20-30 --- 901364 7647-14-5

*p-Methylaminophenol sulfate

900615 55-55-0 Burger & Course of the Market of the Contract of the Contract

Water and the street

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*Principal Hazardous Component(s)

PRECAUTIONARY LABEL STATEMENT(S):

Household label:

Contains p-methylaminophenol sulfate

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timber virtual transported by the first of t

CAUTION REPEATED CONTACT MAY CAUSE SKIN IRRITATION AND

ALLERGIC SKIN REACTION.

AVOID BREATHING DUST.

MAY BE HARMFUL IF SWALLOWED.

the distance of swallowed, induce vomiting.

Call a physician at once.

KEEP OUT OF THE REACH OF CHILDREN

Commercial label:

少基金公文 医皮肤囊皮肤囊炎

CAUTION May cause skin and eye irritation and allergic skin reaction.

Avoid contact with skin and eyes.

Avoid breathing dust.

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SECTION III. PHYSICAL DATA

- Appearance and Odor: Tan colored powder; odorless
- Boiling Point: Not Applicable Vapor Pressure: Negligible
- Evaporation Rate (n-butyl acetate = 1): Not Applicable
 - -65° Vapor Density (Air =01): Not Applicable
 - Volatile Fraction by Weight: Negligible
 - Specific Gravity (H2O = 1): GGT 1.0 was a state of the same and the sa
- pH: Not Applicable
 - Solubility in Water (by Weight): Appreciable

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

- Flash Point: None
- Flammable Limits in Air (% by volume in air): None
- Extinguishing Media: Not Applicable
- Special Fire Fighting Procedures: None
- Unusual Fire and Explosion Hazards: None

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

- A. THRESHOLD LIMIT VALUE: Not Applicable
- EXPOSURE EFFECTS:
 - Thhalation: Dust may cause upper respiratory tract irritation.
 - Eyes: May cause eye irritation.
 - Prolonged or repeated skin contact may cause skin

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irritation and may result in an allergic skin reaction.

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Ingestion: May be harmful if swallowed.

C. FIRST AID:

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- Inhalation: Remove from exposure, treat symptomatically, and get medical attention if symptoms persist.
- Immediately flush eyes with plenty of water and get Eves: medical attention.
- Flush skin with plenty of water.

If skin irritation or an allergic skin reaction

develops, get medical attention.

- If swallowed, if conscious, induce vomiting Ingestion: immediately by giving 1 or 2 glasses of water 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.
- D. ANIMAL TOXICITY DATA
- Test Species Result(2) Classification(1)
- Rat 0.5 5.0 g/kg Acute Oral LD50 Slightly toxic Skin Irritation Guinea Pig Slight to moderate

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SECTION VII. PERSONAL PROTECTION AND CONTROLS

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

Mechanical (General): Recommended

C. SKIN AND EYE PROTECTION:

Protective gloves should be worn.

Safety glasses should be worn.

The routine use of a non-alkaline (acid) type of hard

The routine use of a non-alkaline (acid) type of hand cleaner will help minimize the possibility of allergic skin reaction.

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SECTION VIII SPECIAL STORAGE AND HANDLING PRECAUTIONS

No special precautions are needed.

SECTION IX. SPILL, LEAK, AND DISPOSAL PROCEDURES

Wear suitable protective equipment.

Flush material to sewer with large amounts of water.

The direct instantaneous discharge to a receiving body of water of an amount of this chemical formulation which will rapidly produce, by dilution, a final concentration of 1 mg/L or less is not expected to cause an adverse environmental effect.

Television Federal, state, and local regulations take precedence.

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: 2,3,4,5,6

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 high potential to affect aquatic organisms and secondary waste treatment microorganisms. It is expected to have a low potential to affect the germination and growth of some plants. The components of this chemical formulation are expected to be biodegradable and are not likely to bioconcentrate. The direct instantaneous discharge to a receiving body of water of an amount of this chemical formulation which will rapidly produce, by dilution, a final concentration of 1 mg/L or less is not expected to cause an adverse environmental effect. However, after dilution with a large amount of water, followed by secondary waste treatment, the chemicals in this formulation are not expected to have any adverse environmental impact.

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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

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- 1. Hodge, H.C., and Sterner, J.H., Am. Indust. Hyg. Assn. Quart.
- 2. Unpublished Data. Health, Safety, and Human Factors
 Laboratory. Eastman Kodak Company, Rochester, New York.
 - 3. Verschueren, K., Handbook of Environmental Data on Organic Chemicals, Van Nostrand Reinhold Company, New York, N.Y., 1977.
- 4. 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.
 - 5. 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.
 - 6. Kodak Publication J-41, BOD5 and COD of Photographic Chemicals, Eastman Kodak Co., 1981.

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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