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MATERIAL SAFETY DATA SHEET

EASTMAN KODAK COMPANY
343 State Street
Rochester, New York 14650

DATE: 04/11/90
PO NBR: 70130
ACCT: 60008701
INDEX: 05900890239
CAT NO: EK1938372
SHEET: R-0045.000

For Emergency Health, Safety, and Environmental Information, call 716-722-5151
For other purposes, call 800-225-5352 (in New York State call 716-458-4014)

Date of Preparation: 10/24/85 Kodak Accession Number: 564174

SECTION I. IDENTIFICATION

- Product Name: Bismuth Nitrate Pentahydrate Reagent
- Synonym(s): Nitric Acid Bismuth(3+) Salt
- Formula: $\text{Bi}(\text{ONO}_2)_3 \cdot 5\text{H}_2\text{O}$
- CAT No(s): 193 7655; 193 8372; 193 9016
- Chem. No(s): 09475
- Kodak's Internal Hazard Rating Codes: R: 1 S: 1 F: 0 C: X

SECTION II. PRODUCT AND COMPONENT HAZARD DATA

COMPONENT(S):	Percent	TLV(R)	CAS Reg. No.
Bismuth Nitrate Pentahydrate Reagent	approx 100	---	10361-44-1

SECTION III. PHYSICAL DATA

- Appearance: White crystalline solid
- Melting with Decomposition: 30 C (86 F)
- Vapor Pressure: Negligible
- Evaporation Rate (n-butyl acetate = 1): Negligible
- Volatile Fraction by Weight: Negligible
- Specific Gravity ($\text{H}_2\text{O} = 1$): 2.83
- Solubility in Water (by Weight): Decomposes in water

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

- Flash Point: None, noncombustible
- Extinguishing Media: Use agent appropriate for surrounding fire.
- Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.
- Unusual Fire and Explosion Hazards: Can increase the burning rate of combustible materials. Fire or excessive heat may produce hazardous decomposition products.

SECTION V. REACTIVITY DATA

- Stability: Stable
- Incompatibility: Reducing agents, combustible materials
- Hazardous Decomposition Products: Thermal decomposition may produce oxides of nitrogen.
- Hazardous Polymerization: Will not occur.

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SECTION VI. TOXICITY AND HEALTH HAZARD DATA

- A. **EXPOSURE LIMITS:** Not established.
- B. **EXPOSURE EFFECTS:**
Inhalation: Low hazard for usual industrial handling.
Skin: Low hazard for usual industrial handling.
Eye: No specific hazard known. Contact may cause transient irritation.
Ingestion: Expected to be a low ingestion hazard.
- C. **FIRST AID:**
Inhalation: None should be needed.
Skin: None should be needed.
Eye: Flush eyes with plenty of water for at least 15 minutes.
Ingestion: None should be needed.

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SECTION VII. VENTILATION AND PERSONAL PROTECTION

- A. **VENTILATION AND RESPIRATORY PROTECTION:**
Good ventilation should be sufficient.
- B. **SKIN AND EYE PROTECTION:**
Safety glasses recommended in industrial operations involving chemicals.

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SECTION VIII. SPECIAL STORAGE AND HANDLING PRECAUTIONS

Keep from contact with reducing agents and oxidizing materials. Keep from contact with clothing and other combustible materials. Remove and wash contaminated clothing promptly. Do not store near combustible materials. Store in tightly closed container. Avoid contamination.

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SECTION IX. SPILL, LEAK, AND DISPOSAL PROCEDURES

Sweep up material and place in a non-combustible container. Contract with licensed chemical waste disposal agency. Discharge, treatment, or disposal may be subject to federal, state or local laws.

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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.

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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