

MATERIAL SAFETY DATA SHEET

200001244/F/USA
Approval Date: 06/01/2001
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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: KODAK Bleach Starter, Process E-6

Catalog Number(s): 177 9792 - To Make 25 gallons (U.S.)

Manufacturer/Supplier: EASTMAN KODAK COMPANY, Rochester, New York 14650

For Emergency Health, Safety & Environmental Information, call (585) 722-5151

For other information or to request an MSDS, call (800) 242-2424.

Synonym(s): KAN 365982; PCD 3773; N-0004.000

2. COMPOSITION/INFORMATION ON INGREDIENTS

Weight % - Component - (CAS Registry No.)

70-75	Water (007732-18-5)
25-30	Ethylenediaminetetraacetic acid, dipotassium and tripotassium salts (002001-94-7, 017572-97-3)

3. HAZARDS IDENTIFICATION

LOW HAZARD FOR RECOMMENDED HANDLING
PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE IRRITATION

HMIS Hazard Ratings:

Health - 1, Flammability - 1, Reactivity - 0, Personal Protection - A

NFPA Hazard Ratings:

Health - 0, Flammability - 1, Reactivity (Stability) - 0

NOTE: HMIS and NFPA hazard indexes involve data review and interpretation that may vary among companies. They are intended only for rapid, general identification of the magnitude of the potential hazards. The personal protection index is only intended for general guidance on personal protection equipment (PPE) that is suitable for the potential hazards of the material. PPE (e.g., respirators) may not be needed if engineering controls (e.g., local ventilation) are adequate. An asterisk (*), in the HMIS health field, designates potential chronic or target organ hazards. To adequately address safe handling, ALL information in this MSDS must be considered.

4. FIRST-AID MEASURES

Inhalation: If symptomatic, move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.

Eyes: Any material that contacts the eye should be washed out immediately with water. Get medical attention if symptoms occur.

Skin: Wash with soap and water. Get medical attention if symptoms occur.

Ingestion: Drink 1-2 glasses of water. Seek medical attention. Never give anything by mouth to an unconscious person.

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5. FIRE FIGHTING MEASURES

Extinguishing Media: Water spray, carbon dioxide (CO2), dry chemical, alcohol foam

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing. Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products: Carbon dioxide, carbon monoxide, oxides of nitrogen

Unusual Fire and Explosion Hazards: None

6. ACCIDENTAL RELEASE MEASURES

Flush to sewer with large amounts of water. Otherwise, absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination.

7. HANDLING AND STORAGE

Personal Precautionary Measures: Avoid contact with eyes and prolonged or repeated contact with skin. Use with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: Keep from contact with oxidizing materials.

Storage: Keep container closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: Not established

Ventilation: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions.

Respiratory Protection: None should be needed.

Eye Protection: It is a good industrial hygiene practice to minimize eye contact. Wear safety glasses with side shields (or goggles).

Skin Protection: It is a good industrial hygiene practice to minimize skin contact. For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

Recommended Decontamination Facilities: Eye bath, safety shower, washing facilities

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Liquid

Color: Colorless

Odor: Odorless

Specific Gravity (water = 1): 1.13

Vapor Pressure at 20°C (68°F): 24 mbar (18 mm Hg)

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Vapor Density (Air = 1): 0.6
Volatile Fraction by Weight: 70-75 %
Boiling Point: >100°C (>212°F)
Solubility in Water: Complete
pH: 5.7
Flash Point: None

10. STABILITY AND REACTIVITY

Stability: Stable
Incompatibility: Strong oxidizing agents
Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Effects of Exposure:

General:

Contains: Ethylenediaminetetraacetic acid, dipotassium and tripotassium salts. Exposure to high concentrations may cause increased urinary excretion of zinc and calcium. This compound can chelate metals and may alter calcium and other cation balances.

Inhalation: Low hazard for recommended handling.

Eyes: No specific hazard known. May cause transient irritation.

Skin: Low hazard for recommended handling. Prolonged or repeated skin contact may cause irritation.

Ingestion: Expected to be a low ingestion hazard.

12. ECOLOGICAL INFORMATION

The following properties are ESTIMATED from the components of the preparations.

Potential Toxicity

Fish LC50 mg/l:	>100
Daphnid EC50 mg/l:	>100
Algal IC50 mg/l:	Not available

Organics Readily Degradable (>70%):	No
Potential Bioaccumulation:	Log Pow <1

COD (approximate g/l):	158
BOD5 (approximate g/l):	6

Potential Toxicity Waste treatment microorganisms EC50 (mg/l):	>100
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13. DISPOSAL CONSIDERATIONS

Discharge, treatment, or disposal may be subject to national, state, or local laws. Flush to sewer with large amounts of water.

14. TRANSPORT INFORMATION

- For transportation information regarding this product call the Kodak Worldwide Transportation Hazmat Hot Line: (585) 722-2400 between 8 a.m. and 5 p.m. (Eastern Standard Time), Monday through Friday.

15. REGULATORY INFORMATION

- Material(s) known to the State of California to cause cancer: None
- Material(s) known to the State of California to cause adverse reproductive effects: None

- Carcinogenicity Classification (components present at 0.1% or more):
 - International Agency for Research on Cancer (IARC): None
 - American Conference of Governmental Industrial Hygienists (ACGIH): None
 - National Toxicology Program (NTP): None
 - Occupational Safety and Health Administration (OSHA): None

- Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372: None

16. OTHER INFORMATION

US/Canadian Label Statements:

LOW HAZARD FOR RECOMMENDED HANDLING
PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE IRRITATION

Avoid contact with eyes and prolonged or repeated contact with skin.
Use with adequate ventilation.
Wash thoroughly after handling.

FIRST AID: Treat symptomatically. Get medical attention if symptoms occur.

Keep out of reach of children.

For additional information, see Material Safety Data Sheet (MSDS) for this material.

Additional hazard precautions for containers greater than 1 gallon of liquid or 5 pounds of solid:

IN CASE OF FIRE: Use water spray, carbon dioxide (CO2), dry chemical, alcohol foam

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 suitability and

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completeness of information from all sources to assure proper use and disposal
of these materials and the safety and health of employees and customers and
the protection of the environment.

R-1, S-1, F-1, C-0