

Biologics

MATERIAL SAFETY DATA SHEET

EASTMAN 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 800-225-5352, in New York State call 716-458-4014

Date of Preparation: 04/29/86
Kodak Accession Number: 900271
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SECTION I. IDENTIFICATION

- Product Name: Valeric Acid
- Synonym(s): Pentanoic Acid
- Formula: C5 H10 O2
- CAT No(s): 104 3181; 104 3199; 104 3207
- Chem. No(s): 00271
- Kodak's Internal Hazard Rating Codes: R: 2 S: 3 F: 2 C: 0

SECTION II. PRODUCT AND COMPONENT HAZARD DATA

COMPONENT(S):	Percent	ACGIH TLV(R)	CAS Reg. No.
Valeric Acid	ca. 100	---	109-52-4

SECTION III. PHYSICAL DATA

- Appearance and Odor: Clear colorless liquid; rancid odor
- Boiling Point: 186 C (367 F)
- Vapor Pressure: 0.20 mmHg at 20 C (68 F)
- Evaporation Rate (n-butyl acetate = 1): Not Available
- Volatile Fraction by Weight: ca. 100 %
- Specific Gravity (Water = 1): 0.94
- Solubility in Water (by Weight): Appreciable

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

- Flash Point: 87 C (189 F) Tag closed cup
- Extinguishing Media: Water spray; Dry chemical; Carbon dioxide; Alcohol foam
- Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing. Use water spray to keep fire exposed containers cool.
- Unusual Fire and Explosion Hazards: None

SECTION V. REACTIVITY DATA

- Stability: Stable
- Incompatibility: Strong oxidizers
- Hazardous Decomposition Products: Combustion will produce carbon dioxide and probably carbon dioxide.
- 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: Vapor irritating. Stench.
 - Skin: Causes burns.
 - Eye: Causes burns.
- C. FIRST AID:
 - Inhalation: Remove to fresh air. Treat symptomatically. If symptoms are present get medical attention.
 - Skin: Immediately flush skin with plenty of water for at least 15 minutes. Get medical attention if symptoms are present after washing.
 - Eye: Immediately flush eyes with plenty of water for at least 15 minutes and get medical attention.

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SECTION VII. VENTILATION AND PERSONAL PROTECTION

- A. VENTILATION:
 - Good general room ventilation should be used. Local exhaust may be needed.
- B. RESPIRATORY PROTECTION:
 - A NIOSH-approved organic vapor respirator should be worn, if needed.
- C. SKIN AND EYE PROTECTION:
 - Protective gloves and clothing should be worn. Safety glasses, goggles, or a face shield should be worn.

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SECTION VIII. SPECIAL STORAGE AND HANDLING PRECAUTIONS

Classified as a combustible liquid. Keep away from heat and flame. Keep from contact with oxidizing materials.

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SECTION IX. SPILL, LEAK, AND DISPOSAL PROCEDURES

Absorb material in vermiculite or other suitable absorbent and place in impervious container. Dispose by incineration or 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.

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