

MATERIAL SAFETY DATA SHEET

EASTMAN KODAK COMPANY  
343 State Street  
Rochester, New York 14650

*Biological*

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: 3/15/85 Form Approved by U.S. Department of Labor

SECTION I. IDENTIFICATION

- Product Name: Pancreatin (Powder)
- Size(s): CAT 113 6365 - bulk; CAT 113 6381 - 500 g
- Kodak Laboratory Chemicals Catalog Number(s): 1991
- Kodak Accession Number: 901991
- Kodak Hazard Rating Codes: R: 2 S: 2 F: 1 C: 0

SECTION II. PRODUCT AND COMPONENT HAZARD DATA

A.	Weight		Kodak	
COMPONENT(S):	Percent	TLV(R)	Accession No.	CAS Reg. No.
Pancreatin (Powder)				
	approx 100	---	901991	8049-47-6

B. PRECAUTIONARY LABEL STATEMENT(S):

WARNING!  
CAN CAUSE ALLERGIC SKIN REACTION  
CAN CAUSE ALLERGIC RESPIRATORY REACTION  
CAUSES SKIN AND EYE IRRITATION  
THIS MATERIAL, LIKE MOST ORGANIC MATERIALS IN POWDER FORM, IS  
CAPABLE OF CREATING A DUST EXPLOSION. REFER TO NFPA PAMPHLET  
NO. 654  
Avoid prolonged or repeated contact with skin.  
Avoid breathing dust.  
Use with adequate ventilation.  
First Aid: In case of contact, immediately flush eyes or skin  
with plenty of water for at least 15 minutes. If inhaled,  
remove to fresh air. Get medical attention.

SECTION III. PHYSICAL DATA

- Appearance and Odor: Cream colored powder; faint characteristic odor
- Melting Point: Not Available
- Boiling Point: Not Available
- Vapor Pressure: Negligible
- Evaporation Rate (n-butyl acetate = 1): Negligible
- Vapor Density (Air = 1): Not Applicable
- Volatile Fraction by Weight: Negligible
- Specific Gravity (H2O = 1): Not Available
- Solubility in Water (by Weight): Slight

R-0278.300  
82-0767

=====  
SECTION IV. FIRE AND EXPLOSION HAZARD DATA

- Combustible dust
- Extinguishing Media: Water spray; Dry chemical; CO2
- Special Fire Fighting Procedures:  
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
- Unusual Fire and Explosion Hazards:  
Fire or excessive heat may cause production of hazardous decomposition products.  
This material, like most organic materials in powder form, is capable of creating a dust explosion. Refer to NFPA Pamphlet No. 654, "Standard for the Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical and Plastics Industries," if this material is to be reduced to or collected as a powder.

=====  
SECTION V. REACTIVITY DATA

- Stability: Stable
- Incompatibility: Strong oxidizers
- Hazardous Decomposition Products:  
As with any other organic material, combustion will produce carbon dioxide and probably carbon monoxide.  
Oxides of nitrogen and sulfur may also be present.
- Hazardous Polymerization: Will not occur.

=====  
SECTION VI. TOXICITY AND HEALTH HAZARD DATA

- A. EXPOSURE LIMITS: Not established
- B. EXPOSURE EFFECTS:  
Inhalation: Can cause allergic respiratory reaction.  
Eyes: Causes irritation.  
Skin: Causes irritation.  
Prolonged or repeated skin contact may result in an allergic skin reaction.
- C. FIRST AID:  
Inhalation: Remove from exposure, treat symptomatically, and get medical attention.  
Eyes: Immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if any symptoms are present after washing.  
Skin: Immediately flush skin with plenty of water for at least 15 minutes and get medical attention if symptoms are present after washing.

D. TOXICITY DATA

Test	Species	Result
Eye Irritation	Rabbit	Slight(1)
Skin Absorption	Guinea Pig	No evidence of skin absorption at 1.0 g/kg(1)
Skin Irritation	Guinea Pig	Slight to moderate

Pancreatin is a powdered substance obtained from fresh hog pancreas that contains varying amounts of amylase, protease, lipase and other constituents. Pancreatin is employed in the treatment of conditions in which the secretion of pancreatic juice is deficient. Sensitization has been reported following repeated direct contact or inhalation.(2)

SECTION VII. PERSONAL PROTECTION AND CONTROLS

A. RESPIRATORY PROTECTION:

An appropriate NIOSH-approved respirator for dust should be worn if needed.

B. VENTILATION:

Local Exhaust: Recommended

Mechanical (General): Recommend at least ten air changes per hour for good general room ventilation.

C. SKIN AND EYE PROTECTION:

Safety glasses with side shields should be worn. For operations where prolonged or repeated skin contact may occur, protective gloves should be worn.

SECTION VIII. SPECIAL STORAGE AND HANDLING PRECAUTIONS

Keep from contact with oxidizing materials.

SECTION IX. SPILL, LEAK, AND DISPOSAL PROCEDURES

Sweep material onto paper and place in fiber carton. Package appropriately for safe feed to an incinerator or dissolve in compatible waste solvents prior to incineration. Dispose in an approved incinerator equipped with afterburner and scrubber or contract with licensed chemical waste disposal service. Discharge, treatment, or disposal may be subject to federal, state, or local laws.

SECTION X. ENVIRONMENTAL EFFECTS DATA

This chemical has not been tested for environmental effects.

SECTION XI. TRANSPORTATION

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.

SECTION XII. REFERENCES

- 1. Unpublished data, Health and Environment Laboratories, Eastman Kodak Company, Rochester, New York.
2. AMA Drug Evaluations, 4th Edition, 1980.

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.

R-0278.300
0113-6365x
0113-6381x
01991x
82-0767