

Material Safety Data Sheet

May be used to comply with
 OSHA's Hazard Communications Standard.
 29 CFR 1910.1200. Standard must be
 consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
 (Non-Mandatory Form)
 Form Approved
 OMB No. 1218-0072

IDENTITY (As Used on Label and List) Proteferm -AFCO's Feed Ingredient Definition 36.1	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.
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Section I

Manufacturer's Name AJINOMOTO CO., INC.	Emergency Telephone Number IA Plant (515) 969-4561
Address (Number, Street, City, State, and ZIP Code) TOKYO, JAPAN	Telephone Number for Information IA Plant (515) 969-4561
1 Ajinomoto Drive	Date Prepared 10/27/94
Eddyville, Iowa 52553	Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
crude protein	(minimum)	35%		
total solid	(minimum)	40%		
moisture	(maximum)	60%		
ammonium		5-6%		
chloride		10-13%		
sulfate		< 0.1% (less than)		
sodium		1-2%		
pH		4-5		

Section III - Physical/Chemical Characteristics

Boiling Point	105 degees C	Specific Gravity (H2O = 1)	1.2
Vapor Pressure (mm HG.)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A

Solubility in Water

Soluble (liquid)

Appearance and Odor

Brown solution with fragrance like molasses

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	N/A	Flammable Limits	Non-flammable	LEL	N/A	UEL	N/A
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Extinguishing Media

N/A

Special Fire Fighting Procedures

N/A

Unusual Fire and Explosion Hazards

N/A

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	weak acid pH 4 - 5
Incompatibility (Materials to Avoid)			
N/A			
Hazardous Decomposition or Byproducts			
N/A			
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	N/A

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
General recognized as safe			
Health Hazards (Acute and Chronic)			
N/A			
Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
N/A			
Signs and Symptoms of Exposure			
N/A			
Medical Conditions			
Generally Aggravated by Exposure			
N/A			
Emergency and First Aid Procedures			
Non - Toxic substance. Flush eyes with plenty of water.			

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled
Ordinary cleanup procedures.
Waste Disposal Method
Do not flush into sewer. use an industrial waste water treatment system.
Precautions to Be Taken in Handling and Storing
Slightly corrosive. Avoid high temperatures to decrease rate of corrosion.
Other Precautions
N/A

Section VIII - Control Measures

Respiratory Protection (Specify Type)			
N/A			
Ventilation Ordinary	Local Exhaust		Special
	N/A		N/A
	Mechanical (General)		Other
	N/A		N/A
Protective Gloves			Eye Protection
	N/A		Recommended (necessary)
Other Protective Clothing or Equipment			
N/A			
Work/Hygienic Practices			
N/A			