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 March, 2006
 Product Codes: 90904, 90905, 90906

MATERIAL SAFETY DATA SHEET

AFB International
 937 Lone Star Drive
 O'Fallon, MO 63366 USA
 (636) 281-0040

Emergency Number:
 (636) 281-0040 Ext. 274

SECTION 1: IDENTITY

Common/Trade Name: ENTICER® PL 610

Product Code Nos.: 90904, 90905, 90906

SECTION 2: HAZARDOUS INGREDIENTS

<u>Chemical or Common Name</u>	<u>CAS #</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Phosphoric Acid	7764-38-2	3 mg/m ³ (TWA)	1 mg/m ³ (TWA) 3 mg/m ³ (STEL)

TWA = 8 Hour Time-Weighted Average
 STEL = 15 Minute Short Term Exposure Limit

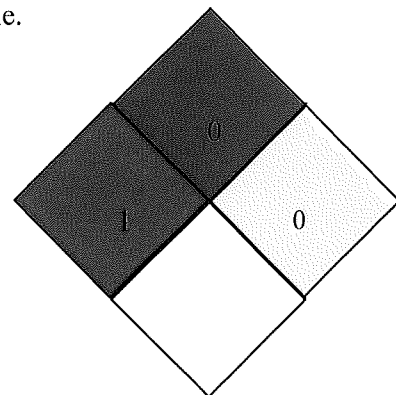
This product contains no suspected carcinogens as reported by NPT, OSHA or IARC monographs. All of the ingredients are listed on the TOSCA inventory.

SECTION 3: FIRE AND EXPLOSION DATA

Water spray, foam, carbon dioxide or dry chemical may be used where this product is stored.

Flash point, flammable limits or autoignition temperature are not applicable.

Hazard Ratings:		NFPA HAZARD RATING
Flammability (Red)	0	4 EXTREME
Health (Blue)	1	3 SERIOUS
Reactivity (Yellow)	0	2 MODERATE
Special Information (White)	None	1 SLIGHTLY
- - - - -		0 MINIMAL



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SECTION 4: PHYSICAL & CHEMICAL CHARACTERISTICS

Percent Moisture:	72
Solubility in Water:	Infinite
Specific Gravity:	1.05
pH:	3.0
Appearance and Odor:	Brown liquid; meaty odor.

This product is chemically stable and does not break down into hazardous decomposition components. It separates into two distinct layers in storage. The bottom layer is composed of approximately 10-20% of the total volume and is distinctly darker. This layer has similar characteristics of the mixed product, but is lower in solids and viscosity.

SECTION 5: HEALTH MAZARDS

Signs and Symptoms of Exposure: Slight burning sensation on skin or irritation of nose or throat.

Medical Conditions Generally Aggravated by Exposure: None

Emergency and First Aid Procedures:

Eyes:	Flush thoroughly with water. If irritation persists, seek medical attention.
Skin:	Wash thoroughly with soap and water.
Ingestion:	Do not induce vomiting. Give large quantities of water. Seek medical attention.
Inhalation:	Move to well ventilated area.

SECTION 6: SPECIAL PROTECTION

Eye Protection:	Safety Glasses/Goggles
Hands:	Chemical Resistant Gloves
Respiratory:	Not required under normal use. However, in applications where this product is sprayed into fine droplets, a NIOSH/MSHA approved dust, mist and fume respirator should be worn by those who may breathe this air if the ACGIH TLV (8 hour TWA) of 10 milligrams per cubic meter (mg/m^3) for particulates not otherwise classified is exceeded.



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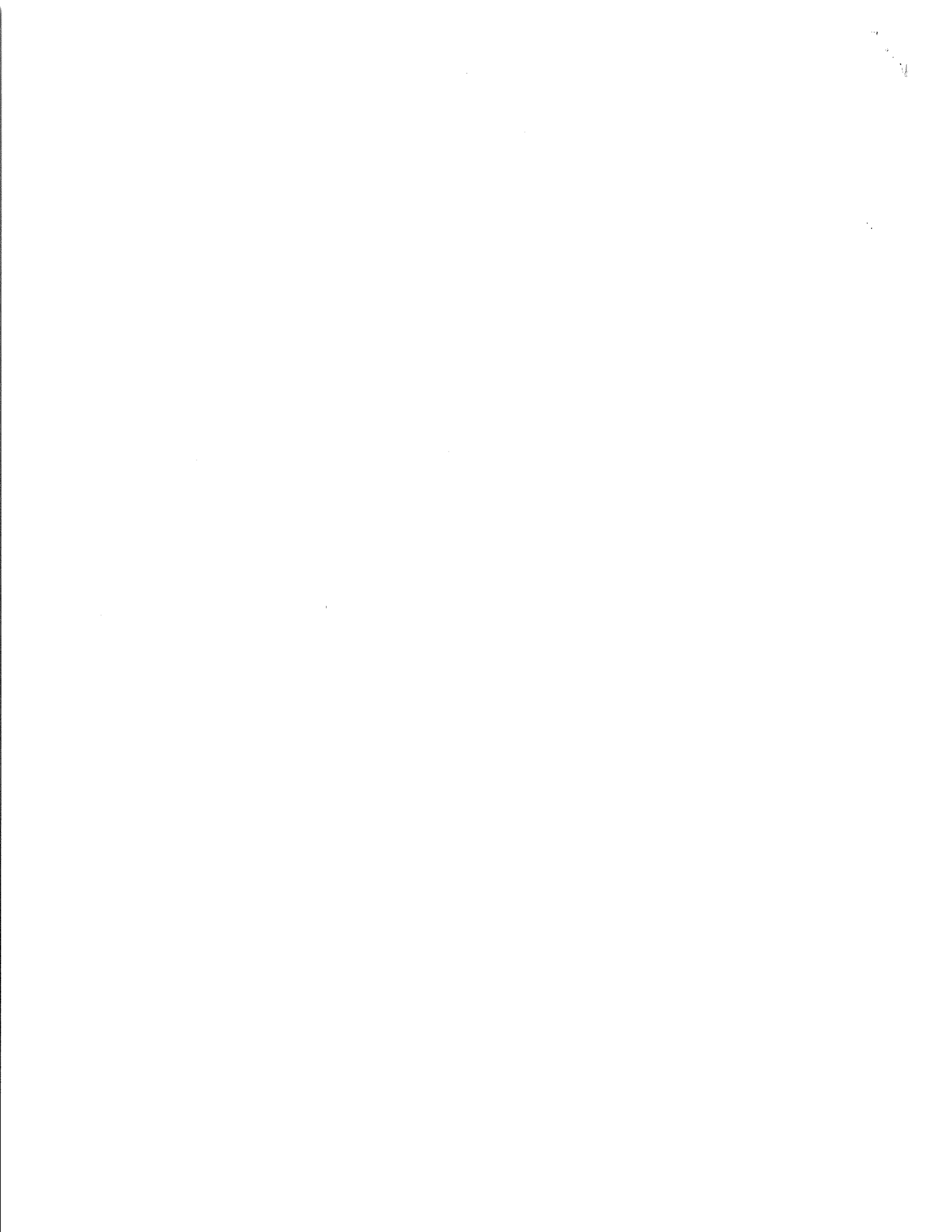
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SECTION 7: ENVIRONMENTAL PROCEDURES

Spilled or other waste quantities of this product should be collected in appropriate containers for off-site disposal. Assuming that it has not been mixed with other chemicals, waste quantities of this product do not meet any of the federal definitions of a hazardous waste under the Resource Conservation and Recovery Act (RCRA), as listed in 40 CFR §261. However, state and local regulations should be consulted prior to disposal.

Spills: Product should not be flushed to the sewer without considering regulatory restrictions on quantities of solids, pH and BOD discharged to the sewer.

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MATERIAL SAFETY DATA SHEET

1: PRODUCT AND COMPANY IDENTIFICATION

Common/Trade Name: Optimizzor® LD 406
General Use: Flavoring for dog food
Manufacturer: AFB International
 #3 Research Park Drive
 St. Charles, MO 63304, U.S.A.
Telephone: 636.634.4100 Ext. 4355
Emergency Number: 800.424.9300 (CHEMTREC)

2: COMPOSITION INFORMATION ON INGREDIENTS

<u>Chemical or Common Name</u>	<u>CAS #</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Sulfuric Acid	7664-93-9	1 mg/M ³	1 mg/M ³

This product contains no carcinogens or suspected carcinogens as reported by NTP, OSHA or IARC monographs.

3: HAZARD IDENTIFICATION

Emergency Overview: Brown liquid with a meaty odor; may cause eye and skin irritation.

HMIS Hazard Ratings:

Health (Blue)	1
Flammability (Red)	0
Reactivity (Yellow)	0
Personal Protection (White)	none

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	



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Routes of Exposure: Inhalation, dermal and eye contact, ingestion
Potential Health Effects: Eyes/Skin: May cause irritation
Inhalation: May cause respiratory irritation
Ingestion: May cause irritation

**Medical Conditions
Generally Known to be**

Aggravated by Exposure: May include conjunctivitis of the eye, dermatitis of the skin, asthma, and respiratory diseases

4: FIRST AID MEASURES

**Signs and Symptoms
of Exposure:**

Slight burning sensation on skin or irritation of the eyes, irritation of the nose and throat.

Eyes: Flush with copious amounts of water, If irritation persist, seek medical attention.

Skin: Immediately flush with copious amounts of water, Get medical attention if irritation develops or persist. Remove contaminated clothing. Wash before re-use.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Get immediate medical attention.

Ingestion: If swallowed, seek medical attention.

5: FIRE FIGHTING MEASURES

Flashpoint: N/A

Flammable Limits: N/A

Extinguishing Media: Water, foam, CO₂, dry chemical

Fire Fighting Equipment: Wear full bunker gear including a positive pressure, self-contained breathing apparatus (SCBA)

6: ACCIDENTAL RELEASE MEASURES

Spill Clean Up: Vacuum or absorb spilled material and place in proper disposal container.

Reporting: There are no Reportable Quantity (RQ) substances in this material.



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7: HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin, and clothing. Avoid ingestion.
Storage: Store in closed containers in a cool, dry place.

8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices may vary, please consult with a safety professional to develop specific guidelines and safe handling procedures for your particular work environment.

Engineering Controls: Where indicated by use conditions or a potential for exposure exceeding a recognized occupational exposure limit exists, general area dilution and/or exhaust ventilation should be used to reduce exposures.

Eye Protection: Safety glasses with side protection or chemical safety goggles depending on the exposure conditions. Always follow OSHA CFR 1910.133 or European Standard EN 166.

Skin Protection: Skin contact should be minimized the use of chemical gloves and long sleeve clothing (shirts and pants). Wash any exposed skin promptly to remove accidental splashed or contact with this material.

Respiratory Protection: Follow guidance provided in the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. A respirator should be worn by those who may breathe airborne dust or vapor at concentrations above recognized occupational exposure limits. Please consult with your safety professional to determine the type of respirator required based on the exposure conditions.

9: PHYSICAL AND CHEMICAL CHARACTERISTICS

Percent Moisture: 75.0
Solubility in Water: Infinite
Specific Gravity/Density: 1.05
pH: 3.0
Appearance and Odor: Brown liquid; meaty odor
Particle Size: N/A



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10: STABILITY AND REACTIVITY

Stability: This product is chemically stable and does not break down into any hazardous decomposition components.

Hazardous Polymerization: Will not occur

Materials to Avoid: None known

11: TOXICOLOGICAL INFORMATION

Acute Effects: May cause skin irritation; may cause eye irritation; material may be irritating to mucous membranes and upper respiratory tract; may be harmful if swallowed.

Toxicity Data: N/A

Chronic Effects: N/A

12: ECOLOGICAL INFORMATION

The environmental and ecological aspects of this chemical have not been fully characterized. Do not allow product to enter drinking water supplies or soil.

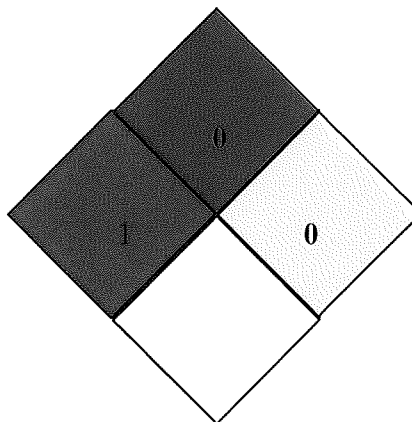
13: DISPOSAL CONSIDERATIONS

Not considered hazardous waste by EPA definitions. Dispose of in accordance with applicable federal, state, and local regulations. If acceptable to the public authorities, wash away with water to a drain or sewer. If a large amount is to be disposed of, vacuum or absorb, place in container, and send to landfill or sewage treatment facility.

14: TRANSPORT INFORMATION

DOT/IMO/IATA: Not a regulated material.

NFPA Hazard Ratings: Health = 1
Flammability = 0
Reactivity/Stability = 0
Special = N/A



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MATERIAL SAFETY DATA SHEET

15: REGULATORY INFORMATION

Not a regulated material.

16: OTHER INFORMATION

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