

MATERIAL SAFETY DATA SHEET

Bio Chem, Inc.
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**TOTAL
SOLUTIONS**

GENERAL INFORMATION NUMBER: 1-800-653-9795

REVISION DATE: August 15, 2001
DATE OF ISSUE: October 24, 2002

I - Product Identification

Digestase FDE 750

PRODUCT CODE: 0516

CHEMICAL FORMULATION: Dried enzyme/bacterial culture

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: 0

FLAMMABILITY: 0

REACTIVITY: 0

HAZARD RATING: 4 - Extreme;

3 - High;

2 - Moderate;

1 - Slight;

0 - Insignificant

II - Hazardous Ingredients

Values reported as TWA unless noted.

<u>SUBSTANCE</u>	<u>APPROX</u>	<u>OSHA</u>	<u>ACGIH</u>	<u>EPA 40 CFR:</u>			<u>CAS</u>
	<u>%</u>	<u>PEL</u>	<u>TLV</u>	<u>302</u>	<u>355</u>	<u>372</u>	

Contains no hazardous components as defined in 29 CFR 1910.1200

Key: PEL: Permissible Exposure Limit TLV: Threshold Limit Value C: Ceiling level STEL: Short Term Exposure Limit
N/A: Not Applicable N/D: Not Determined N/E: Not Established Y: Yes N: No
302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).
355: SARA TITLE III / List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355.2).
372: SARA TITLE III / List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372.3).

III - Physical Data

BOILING POINT (°F): N/A

SPECIFIC GRAVITY (WATER = 1): N/A

VAPOR PRESSURE (mm Hg): N/A

VOC CONTENT (% by weight): N/A

VAPOR DENSITY (AIR = 1): N/A

EVAPORATION RATE (WATER = 1): N/A

SOLUBILITY IN WATER: Soluble

pH: N/A

APPEARANCE AND ODOR: Tan to brown powder; yeast-like odor.

IV - Fire and Explosion Hazard Data

FLASH POINT (°F): N/A

(TEST METHOD): N/A

FLAMMABLE LIMITS IN AIR (VOLUME %)

UPPER: N/A

LOWER: N/A

EXTINGUISHING MEDIA: Water, foam, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should be equipped with full protective gear including self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARD: None

This high potency digestant product is designed for use in farm animal manure pits, lagoons, slurrystores, feedlots and pens.

It utilizes the powerful waste digesting properties of natural enzymes and bacteria to keep waste systems in a free-flowing condition while it reduces odors. Regular use will establish thriving colonies of these bacteria to provide continuous digestion.

HOG, CATTLE OR CHICKEN MANURE PITS: Use 1 to 3 pounds per 100 animals, or 5 pounds per 10,000 gallons of liquid in the pit. The bacteria and enzymes in this product must be activated by mixing them with warm water (85° to 100°F.) – **DO NOT USE HOT WATER.** Allow to dissolve for an hour or more, then pour the slurry directly into the pit. The pit must contain at least 6 to 8 inches of water on top of the solids.

When beginning treatment program, treat the pit every week. After the digestion process is underway, treatments may be reduced to once or twice per month. Adjust the amount and frequency of addition with consideration to the past build-up of solids and amount of waste water entering the pit. Treat heavier or more frequently if feed, hay, bedding materials or detergent, disinfectants and hardness in the wash water entering the pit. Make an initial treatment immediately after the pit is pumped out. For pits with more than 3 feet of solids, double the treatment amount for the first 8 weeks.

Within a few days after the initial treatment, foam and/or solids will appear to float to the top. Crust on the top of the pit will begin to wet and eventually sink. Significant reductions in odor will be noticed after one to two weeks, as the bacteria and enzymes go to work digesting the solids at the bottom and in the slurry. Gas pockets trapped within the solids layer will be broken open and dispersed evenly and safely.

Solids will take time to remove. Stay on a regular treatment schedule for complete digestion over time. Once the system is operating properly, the solids will be reduced to a 4 to 12 inch layer.

Pits should be pumped at least two times per year, in the spring and fall, after this product has liquefied solids and made a uniform, free-flowing slurry. Digesting activity is decreased during freezing winter periods.

FEED LOTS: Use 1 to 3 pounds per 100 animals. Make a slurry with warm water to activate the bacteria and enzymes. Remove manure, then sprinkle lot with the slurry.



DIGESTASE FDE 750

FARM DIGESTANT WITH ENZYMES

DIGESTS ORGANIC WASTE AND
ELIMINATES ODORS AND GAS IN
MANURE PITS AND LAGOONS,
COMPOST HEAPS AND SEPTIC TANKS

REDUCES SOLIDS AND GASES

INCREASES PIT CAPACITY

MAKES PUMPING OUT PITS
EASIER AND FASTER

INCREASES FERTILIZER VALUE

ELIMINATES FOUL ODORS

ALL NATURAL – SAFE TO USE

CAUTION

May irritate eyes.

See side panel for additional precautions.

KEEP OUT OF REACH OF CHILDREN

Sold By:

LAGOON SYSTEMS HOLDING ANIMAL WASTE OR FOOD PROCESSING WASTES: Use 1 to 4 pounds per 50,000 gallons of liquid or 10 pounds per acre-foot. Treat each lagoon two times per year – each spring and fall. Increase the treatment amount for lagoons that have heavy build-up of solids. Food processing waste lagoons with heavy daily loading may require treatment year round. Wastes that are high in grease or cellulose (paper or plant matter) will also require heavier applications.

COMPOST HEAPS: Use 1 pound per 5 to 10 tons of manure, leaves or vegetation to be composted. Wet compost pile thoroughly, then sprinkle with slurry of digestant. For the fastest composting, turn over pile every few weeks and treat with digestant.

CAUTION

May irritate eyes.

FIRST AID

IF IN EYES: Flush eyes and under eyelids with water for at least 15 minutes. If discomfort persists, see a physician.

IF SWALLOWED: Contact poison control center or physician immediately. Give affected person 1 to 2 glasses of water.

IF INHALED: Remove person to fresh air. Obtain medical attention if symptoms of allergic reaction appear within 12 hours.

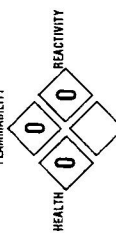
See M.S.D.S. for complete safety information.

KEEP OUT OF REACH OF CHILDREN

Handling & Storage: Keep container tightly closed when not in use. Do not store in unmarked containers. Do not mix with any other chemicals. Store containers in cool, dry place. Keep away from acids, strong oxidizing agents and disinfectants.

This Product Contains		CAS Number
Sodium Chloride	.....	7647-14-5
Yeast Culture	.....	No CAS Number
Bacillus genus	.....	68038-68-6
Sodium Bicarbonate	.....	144-55-8
Pancreatin	.....	8048-47-6

NEPA RATINGS
FLAMMABILITY



0516.040104

NET CONTENTS:



25 Lbs.



50 Lbs.



100 Lbs.