FLOKEM®
QUALITY • INNOVATION • PERFORMANCE

MANUFACTURER OF INDUSTRIAL
CLEANING & SPECIALTY CHEMICALS
19402 Susana Rd., Rancho Dominguez, CA 90221-5798
(310) 632-7124 FAX (310) 884-1718

TECHNICAL DATA SHEET

FL5195
FLO-ZYME
Active Liquid Culture

DESCRIPTION: FLO-ZYME is a live bacteria treatment, which breaks down and liquefies suspended solids such as proteins, fats, greases, carbohydrates, oils, sugars, cellulose, and starches. **FLO-ZYME** eliminates hydrogen sulfide odors (rotten egg smell) and other foul odors and gases produced from waste products. It is harmless to plants, animals, or marine life and is non-pathogenic. **FLO-ZYME** consists of specially developed bacteria, aerobic, anaerobic, and facultative in nature. They reduce BOD and pollution potential. **FLO-ZYME** has over 225 billion enzyme-producing bacteria per gallon.

ADVANTAGES:

- Cultures that grow with or without air
- Long Shelf Life
- Non-Polluting
- Non-Acid
- Non-Caustic
- Will not corrode drain pipes
- Non-Toxic
- Eliminates Foul Odors

RECOMMENDED USES: Where: Feed lots, Stock Yards, Commercial Buildings, Hotels and Motels, Dairy Industries, Food Processing Plants, Nursing Homes, Oil Field Slush pits, Hospitals, Institutions, Restaurants, Industrial Plants, Public Restrooms, Apartment Complexes, Boats, Schools, Cafeterias and Plants. **Use In:** Septic tanks, Grease Traps, Cesspools, Ponds, Industrial Waste Plants, Sump Pumps, Porta-Toilets, Drains, Lagoons, Sewage Waste Plants and RV Toilets.

DIRECTIONS FOR USE:
Drain Maintenance: Follow the directions below for improving water flow in a variety of drain types. It is best to dispense the given dilution on a daily basis for 3-4 days to unclog drains with organic matter. Add the dilutions listed below at night after use.

Kitchen Sinks	2 oz.
Floor Drains	4 oz.
Urinals/Toilets	2 oz.
Garbage Disposal	4 oz.

Grease Traps - *Restaurants, Institution kitchens*

1. Pump out trap, then add directly to trap 1 pt. per 24 cu. ft. capacity (180 gallons).
2. One week later, begin preventive maintenance schedule:
   a) At close of business, flush lukewarm water down each drain leading to trap for 5 seconds to clear line of harsh chemicals, which reduce bacteria activity.
   b) Dilute one pint in enough lukewarm water to pour approximately 2 pints of the solution down each drain. Let mixture remain in drains overnight.
   c) Next morning flush lukewarm water down drains for 5 seconds.

3. For 24-hour business operations, use same procedure, but begin treatment at time of lowest water flow down the drains.
4. For traps that have been in use where a "top crust" is visible, add 1 pt. per 24 cu. ft. (180 gallon) capacity directly into the grease trap. Repeat every 3 - 4 days until crust disappears. Then begin preventive maintenance schedule.

Drain Lines, Feeder Lines, Down Pipes & Stacks

Buildings and Apartments

1. Add 8 oz. directly to any sump or drain pipe and 2 oz. twice a week thereafter.
   a) To treat lines and pipes, begin on first floor and proceed upward as the condition is brought under control. Continue treatment on lower floors as you continue upward.
   b) Pour 2 oz. down every drain in the evening twice weekly. If line is dry, follow with a cup of lukewarm water.
   c) Use same procedure to treat down pipes and stacks.

Recreational Vehicles

Trailers, Boats, Campgrounds

1. Add 2 oz. per gallon of water in the toilet holding tank. Thereafter, use 1 oz. per gallon as needed. Repeat after every cleanout.
2. For use at dump station, add 1 gallon per 50 gallon capacity. Add 1 pint per week thereafter. Repeat procedure after cleanout.

Lagoons and Ponds

Food Processing Plants, Dairies, Feedlots

Use 3 gallons per million gallons of daily flow for 7 days. 2 gallons for the next 7 days and a preventive maintenance dose of 1 gallon per million gallons of daily flow each day thereafter. It may be necessary to increase the application rate if the lagoon or pond has a surface crust, is unusually odorous, has a large build-up of solids, etc. Approximately 4-6 weeks will be required to bring the system into balance.

Cement Vault Toilets

Parks, Roadside Rest Stops

Add 1 gallon directly. If necessary, add water to cover the solids. Use 1 pint each week for continued waste digestion. Make sure the waste surface is kept moist. Start treatment again with 1 gallon each time vault is pumped. Keep surface moist.

Septic Tanks

Home and Buildings away from sewer

Use 1 pint per 24 cu.ft. Capacity (180 gallons) for the initial dose. Pour into toilet and flush. Thereafter, use 8 oz. per week. This may be diluted with enough lukewarm water to pour 2 pints down each drain in the dwelling. Do this in the evening; allow the product to remain in the drain overnight and flush with lukewarm water the next morning. This will keep the lines open and odor free. If the septic tank has become clogged and odorous, add 1 gallon directly to the septic tank or distribution box. After the tank functions properly, begin preventive maintenance schedule.

Waste Treatment Plants

Municipal and Industrial

Use 3 ppm for the first 7 days. 2 ppm for the next 7 days, followed by a daily preventive maintenance dose of 1 ppm. Add at a point to give the longest detention time in the plant. The collection system can be treated at this same schedule. However, make sure that the plant is operating properly before treating the collection system or the plant may receive more waste than it can handle. Avoid treating a plant that is hydraulically overloaded. This prevents the bacteria in the product from becoming established as an integral part of the plant's biota.

Keep tightly closed, cool, and out of direct sunlight. Keep from freezing.

SPECIFICATIONS:

Color	Milky White Emulsion
Fragrance	Mild
Flash Point	Will Not Flash
pH @ 77°F	6.2 – 8.2
Specific Gravity	0.992 – 1.012
Stability	Excellent
Shelf Life	Excellent
Bacteria Count	Over 200 billion/gallon
Bacteria Type	Blend of 4 Bacillus Spores
Salmonella/Shigella	Negative
Stability	2 years + at 35°F to 95°F
Enzyme Production	Lipase/Protease/Amylase/Cellulase
Bacterial Pathways	Aerobic and Facultative Anaerobic
Weight/Gallon	8.37