

# UNITED LABORATORIES TECHNICAL DATA SHEET

## UNITED 984 LIBERATOR Bacterial Treatment Featuring Inter-Core Technology®

### DESCRIPTION

**UNITED 984 LIBERATOR Bacterial Treatment featuring Inter-Core Technology®** is a blend of bacteria with a 10 billion CFU per gram count. These bacteria consist of Gram Positive and Gram Negative strains selected for their ability to reduce BOD and FOG.

Inter-Core Technology® allows the **LIBERATOR** to deliver 10 billion CFU/gram of concentrated bacteria in 2 stages. First the inner core of the **LIBERATOR** is filled with a granular blend of bacteria selected for its rapid initial growth and biodegradation capability. The bacteria is held in place by water soluble plugs that rapidly dissolve, releasing the granular bacterial portion quickly. Secondly, the outer shell of the block also contains 10 billion CFU/gram of specially blended bacteria that dissolves slowly releasing bacteria over time.

When installed correctly the **LIBERATOR** reduces blockages and other grease related flow restrictions biologically and is extremely economical lasting from 60 to 180 days (90 days is average). The **LIBERATOR** is unaffected by domestic strength waste in collection systems (as defined under EPA guidelines) and is designed to function effectively in grease traps, manholes and lift stations for 60 – 180 days. The bacterial strains in the **LIBERATOR** effectively biodegrade long chain fatty acids to reduce odors.

### FEATURES AND BENEFITS

- Contains a blend of, Gram Positive and Gram Negative, bacteria specially selected for their grease eliminating ability.
- Contains a CFU count of at least 10 billion CFU per Gram.
- Developed specifically to treat tough grease related problems in manholes, lift stations, grease traps and many other remote problem areas.
- Reduces blockages and other grease related flow restrictions biologically.
- Extremely economical lasts in most applications from 60 to 180 days (90 days is average).
- Extremely fast and easy to install!
- Designed to be used in both lift stations and in manholes (inside the invert). **UNITED 984** effectively biodegrades even the tough long chain fatty acids most products won't touch!
- Earth Smart®, this means it contains no toxic materials and has all Zeros on the MSDS sheet for the HMIS category.
- Reduces malodors associated with wastewater streams and grease traps.

### SPECIFICATIONS

Appearance	Lime green solid cake
Flash Point and Flame Extension	None
Specific Gravity (water=1)	0.990 (H <sub>2</sub> O=1)
pH	N/A
VOC	N/A
Evaporation	N/A
Solubility in Water	Complete
Wetting Ability	No
Cold Stability	Yes
NPE, Phosphates, Butyl, Heavy Metals, Chlorine, Pthalates	None
Packaging	Cardboard Boxes: 4, 8, 16 per box
Shelf Life	1 year

### SUGGESTED USES

**LIBERATOR** provides a continual source of bacteria to biodegrade grease and other organic wastes.

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## DIRECTIONS

Manholes and Mains: In manhole, **LIBERATOR** should be placed in the invert at a 90° angle pointed downstream on the downstream end of the U channel.

Lift Stations: **LIBERATOR** should be used in low flow applications. Suspend the block so the entire block is submerged below the water at its lowest level.

Grease Traps: **LIBERATOR** should be suspended in the trap so the block is just under the grease cap. Apply one block for every 350 gallons capacity. If capacity is over 300 gallons, spread the blocks out in different sections of the trap.

## HMIS® III CODE

0=MINIMAL	HEALTH	0
1=SLIGHT	FLAMMABILITY	0
2=MODERATE	PHYSICAL HAZARD	0
3=SERIOUS	PERSONAL PROTECTION	B
4=SEVERE		

**PERSONAL PROTECTION INDEX:** Glasses and Gloves

