

UNITED

LABORATORIES

United 300 works in two basic ways:

- Breaks up deposits and destroys their adhesive and cohesive forces
- It disperses the fine particles throughout the water in a fluffy form, so that any water flow of 2.0 feet per second velocity will carry the deposits away.
- Very strong mud (inorganic) action that penetrates fine colloidal size particles and ABS detergent deposits.
- Recommends mains to be flushed to remove the mud and silt freed by the use of United 300.
- Designed to remove inorganic (mud), or organic (sanitary sewage) and greasy deposits from storm and sanitary sewers.
- Furnished in liquid concentrate for easy usage.

GENERAL INFORMATION:

United 300 is the accepted standard product for removing deposits primarily composed of organic wastes.

DIRECTIONS – Initial Cleaning:

One gallon (4 litres) of **United 300** will remove as much as 1 ton (900 kilograms) of mud from sanitary sewers, storm sewers, and combined sewer systems. It is effective at dosage rates ranging from 1 qt. per 1000 gallons (1 litre per 4000 litres) of water to 3 gallons per 1000 gallons (12 litres per 4000 litres). **United 300** action is instantaneous, and the more it is used, the faster the cleaning action.

When using a mechanical device to dispense or inject **United 300**, clean the equipment thoroughly before using.

With Hydraulic Jet Pumping Units, use **United 300** at the rate of 3 gallons per 1000 gallons (12 litres per 4000 litres) of flushing water.

With Fire Hose Cleaning, use **United 300** at the rate of 3 gallons per 1000 gallons (12 litres per 4000 litres) of flushing water (estimate water usage) or 1 gallon per 100 ft. of 1 ft. pipe diameter (4 litres per 30 meters of .30 meters). For 2 ft. pipe diameter (.61 meters), double the dosage. For 3 ft. diameter (.91 meters), triple the dosage, etc.

With Bucket Cleaning Equipment, use as with the fire hose cleaning.

An alternate method (recommended only for storm sewers, and combined sewers), is to pour 1 gallon per 100 ft. of 1 ft. diameter pipe (4 litres per 30 meters) into a manhole or sewer opening before a rainfall. When the rain comes, **United 300** will wash out the deposits with the increased water agitation. Many times it will be found that regular monthly dosages will clean out the storm sewer congestion in a few months by simple rain action.

United 300

Mud Remover

KEEP OUT OF REACH OF CHILDREN. CAUTION

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

PRECAUCION AL USARIO:

Si usted no puede leer Ingles, pregunte a alguien que le traduzca esta etiqueta para usted antes de uso.

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DIRECTIONS – Initial Cleaning: (Continued)

An alternate method (recommended for sanitary sewers only), is to pour 1 gallon per 100 ft. of 1 ft. diameter pipe (4 litres per 30 meters of .30 meter) into a manhole or sewer opening and allow the normal flow of sewage to wash out the deposits. For best results, add **United 300** into the sewer line during peak flow.

DIRECTIONS – After Initial Cleaning:

For preventive maintenance of all types of sewer systems, add 1 qt. per 100 ft. of 1 ft. diameter pipe (1 litre per 30 meters) once each month.

It is not designed to remove mineral scale like calcium carbonate unless this scale represents a small percent of the total deposit.

FOR FOOD PLANT AND OTHER INDUSTRIAL USE:

Food contact surfaces are to be washed and rinsed with potable water before reuse.

CAUTION:

Surfaces on which **United 300** has spilled or leaked are extremely slippery. Apply United 961 Non-Ammoniated Polymer Solvent to remove spill.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Flush with plenty of cool water for at least 15 minutes. If irritation persists, call a physician or poison center.

SKIN: Wash with soap and water. Call a physician if irritation develops.

INHALATION: Remove to fresh air. Apply CPR if necessary. Call a physician if irritation persists.

IF SWALLOWED: Call a physician.

An MSDS for this product is available through United's website, www.unitedlabsinc.com, providing 24 hour access. Please read the MSDS carefully and follow all directions when using or handling this product. Never reuse empty containers. Incompatible materials may adversely react.

HMIS® III CODE: 0=MINIMAL 1=SLIGHT 2=MODERATE 3=SERIOUS 4=SEVERE PERSONAL PROTECTION INDEX: Glasses and Gloves	HEALTH	0
	FLAMMABILITY	0
	PHYSICAL HAZARD	0
	PERSONAL PROTECTION	В

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LABORATORIES

ResPOND restores and refreshes ponds, lakes, large decorative fountains (20,000 gallons or more), holding tanks and lagoons that have been fouled.

- Reduces odors.
- Greatly improves water clarity.
- Increases natural bacterial activity.
- Reduces bottom solids.
- Reduces unwanted compounds such as nitrates, phosphates, ammonia and organic sulfides.

ResPOND is not a herbicide. It's a blend of ten different bacterial cultures that have been specifically selected and adapted to ecologically maintain ponds and other bodies of water.

EARTH SMART® FORMULATION:

- 10-strain blend includes the cold-weather strain.
- High bacteria count (10 billion CFU/gm).
- Will not harm humans, birds, fish or plant life.
- Safe on pipes, pumps, and other equipment.
- No hazardous components.
- Active working pH range 6-9.
- Works at temperatures between 38°F and 100°F.

DIRECTIONS FOR USE:

United 487 is available in four-ounce water-soluble packets or in bulk form.

Water-soluble packets should be tossed into the pond according to the treatment schedule indicated.

Bulk **ResPOND** should be mixed at the rate of one pound with one gallon of warm water. Mix to form a slurry and let sit for 10-20 minutes before pouring into water

When treating fish-inhabited waters, treat only half of the water at a time. Follow treatment schedule for 3 weeks. Wait 1 week then treat the other half of the inhabited water following the treatment schedule.

United 487

ResPOND **Pond Restorer and** Phosphate Reducer

KEEP OUT OF REACH OF CHILDREN. See other cautions on back/side panel.

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TREATMENT SCHEDULE:

The chart below assumes that the waters have been significantly fouled. For less-fouled waters, contact your sales representative for a treatment schedule.

1 Acre foot = 43,500 cu. ft. 1 Acre foot = 325,000 gal.

Pounds of ResPond per Acre foot	Week	Frequency
2	First	Twice
1	Second	Twice
1/2	Third	Twice

For regular maintenance, use one pound per acre foot weekly.

The four-ounce soluble packets are a quick efficient way to treat smaller bodies of water (10,000 gallons or more).

ResPond packet per 20,000 gallons	Week	Frequency
2	First	Twice
1	Second	Once
1	Third	Once

For regular maintenance, use one 4 oz. packet per 10,000 gallons weekly. ResPond is not recommended for bodies of water that are less than 20,000 gallons.

PRECAUTION:

Wash hands after use. Store in a cool dry place.

FIRST AID MEASURES:

IF IN EYES: Rinse opened eye for several minutes under running water.

IF ON SKIN: Generally the product does not irritate the skin. Wash with water.

IF INHALED: Supply fresh air; consult doctor in case of complaints.

IF SWALLOWED: If symptoms occur, consult a doctor.

An SDS for this product is available through United's website, www.unitedlabsinc.com, providing 24 hour access. Please read the SDS carefully and follow all directions when using or handling this product. Never reuse empty containers. Incompatible materials may adversely react.

Now with more performance power!

United 487

ResPOND Pond Restorer

ResPOND restores and refreshes ponds, lakes, large holding tanks and lagoons that have been fouled.



- Minimizes algae growth.
- Reduces odors.
- Cuts surface scum.
- Greatly improves water clarity.
- Increases natural bacterial activity.
- · Reduces bottom solids.

ResPOND is not an herbicide.

It's a blend of ten different bacterial cultures (10 billion CFU) that have been specifically selected and adapted to ecologically maintain ponds and other bodies of water.



ResPOND controls algae growth by competing with it for available nutrients.

Earth Smart® Certified formulation:

- Will not harm humans, birds, fish or plant life.
- Safe on pipes, pumps, and other equipment.
- No hazardous components.
- Neutral pH. Works at water pH between 6-9.
- Works at temperatures between 38°F and 100°F.













UNITED

LABORATORIES

- Excellent for grease, scum, oil and coal dust removal.
- Safe for plant and process...will not harm bacterial process in plant.
- No material safety handling problems.
- Easy to apply...use high pressure washer or steam jenny.

GREASE OR OIL IN AERATION TANKS: Treated with **ZYME-TREAT** to aid settling. Approximate dilution rate of 20,000 - 40,000:1. Check for proper dilution rate by doing a sludge settling test using **ZYME-TREAT** mixed 10:1.

DIGESTER CLEANING: Use a pressure washer and **United** 556 at a 30:1 - 40:1 dilution rate. **ZYME-TREAT** will even help degrease the two feet of sludge in the bottom of the digester that won't rewater.

SCUM LAYERS IN DIGESTER: Can be controlled using **ZYME-TREAT** addition. Please check with your United Representative for details.

SAND OR MIXED-MEDIA TERTIARY FILTER: Can be cleaned of oil, grease, algae and scum with the use of **United 556** from 75:1-125:1 for filters containing anthracite to 150:1-300:1 for filters containing only sand. This use rate applies to the net volume of water after subtracting the volume of the media in the filter. The media volume can often be found on the design prints in the plant. Contact your United Representative for further information, or check Operations Forum, Jan. 1990, "Taking the Bite Out of Filter Buildup."

CLARIFIER AND AERATION TANK WALLS: Can be successfully cleaned with a high pressure washer using **United** 556 at 30:1 - 40:1 dilution. Reactor walls rinse clean. Since **United** 556 has flocculating properties, the septic sludge in the bottom of the reactor will flow down the drain with greater ease.

ALGAE: Can be removed from reactor walls without residue, using a bucket and natural bristle brush with **ZYME-TREAT** at a 10:1 dilution, or one may lower the level in the clarifier and use a high pressure washer with **United 556** at 30:1 dilution. Because of the flocculant properties of **United 556**, most of the algae will sink instead of floating, thus reducing the suspended solids that usually result from algae cleanup.

TRICKLING FILTERS: May be cleaned of ponding due to slime and grease, using 5-7 gallons (18-25 litres) of **United 556** in a 90 foot trickling filter. Add the **ZYME-TREAT** to the center well with a detention time of about 20 minutes. Let the filter circulate. Once the ponding has been reduced, allow the material to pass through the process. There will be no harm to the bacteria on the filter. The enzymes actually enhance the biological processes.

SEPTIC FIELD SYSTEMS: If the drain field is clogged with grease, use **United 556 ZYME-TREAT** 6 gallons (approximately 25 litres) per each splitter box.

United 556

ZYME-TREAT

WWT Super Concentrate Enzyme-Based Grease Pre-Digester

Patented

KEEP OUT OF REACH OF CHILDREN. See other cautions on back/side panel.

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FERRIC AND FERROUS SULFATE SPILLS AND STAINS: May be cleaned with ZYME-TREAT at 10:1 dilution with a bucket and natural bristle brush, or with a high pressure washer the standard feet at 20:1 library feet.

using **United 556** at a 30:1 dilution. Lines and feed equipment may be cleaned using **United 556** at a 10:1 dilution. Very old stains will be lightened, but new spills (under 3 months) can almost always be removed.

FERRIC AND FERROUS CHLORIDE SPILLS AND STAINS: (Refer to the handling of ferric and ferrous sulfate.)

BELT FILTER PRESSES, VACUUM FILTERS, AND PLATE AND FRAME PRESSES: May be cleaned with ZYME-TREAT in a pressure washer with United 556 at a 30:1 dilution, if using ferric or ferrous chloride, or ferric and ferrous sulfate as the coagulant. The ZYME-TREAT breaks the ferric or ferrous deposits from the filter media.

For applications on the wastewater process side, please contact our technical services group for assistance.

FIRST AID MEASURES:

IF IN EYES: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms develop, seek medical attention.

IF ON SKIN: Wash with soap and water. Get medical attention if irritation occurs.

IF INHALED: Remove to fresh air. Get medical attention if symptoms occur. If not breathing, give artificial respiration.

IF SWALLOWED: Do not induce vomiting. Rinse mouth. Drink plenty of water. Seek medical attention immediately.

An SDS for this product is available through United's website, www.unitedlabsinc.com, providing 24 hour access. Please read the SDS carefully and follow all directions when using or handling this product. Never reuse empty containers. Incompatible materials may adversely react.

United 556 is on the U.S. Environmental Protection Agency's NCP Product Schedule. This listing does NOT mean that the EPA approves, recommends, licenses, certifies, or authorizes the use of **United 556** on an oil discharge. The listing means only that data have been submitted to EPA as required by subpart J of the National Contingency Plan, 300.915. (Source 40 CFR section 300.920 (e))

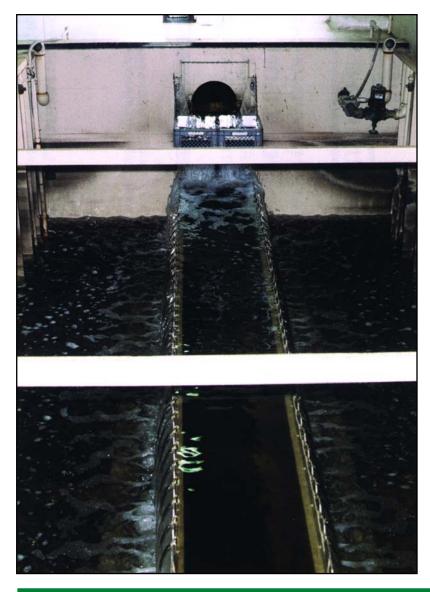


ZYME-TREAT

REMOVES OIL, ALGAE GREASE and SCUM

SAFELY

with NO HARM to the BACTERIAL PROCESS.



ZYME-TREAT

Waste Water Treatment

ZYME-TREAT is a Super Concentrated, Enzyme-Based Grease Pre-Digester for use in:

- AERATION TANKS
 Helps control grease and oil.
- DIGESTERS
 Separates greasy sludge, causing it to flow.
 Controls scum layers.
- TERTIARY FILTERS
 Cleans oil, grease, algae
 and scum.
- CLARIFIERS
 Cleans grease, and algae.
 Helps to settle denitrified sludge.
- TRICKLING FILTERS Reduces ponding.
- LIFT STATIONS
 Pre-digests grease.
 Cleans and reduces odors.
- CLEANS FERROUS AND FERRIC SULPHATE SPILLS. CLEANS FERROUS AND FERRIC CHLORIDE SPILLS.
- CLEANS BELT FILTER PRESSES, VACUUM FILTERS, PLATE AND FRAME PRESSES.











LABORATORIES

- Excellent for grease, scum and oil removal.
- Safe for plant and process...will enhance bacterial process in plant.
- No hazardous components, no VOCs, ranked zero in all HMIS categories.
- Non-toxic according to EPA, OSHA, NIOSH and WHMIS standards.
- Will rehydrate sludge and mud.
- Non-flammable. Will not burn.
- Near neutral pH.
- No material safety handling or closed space problems.
- Provides flocculent properties.
- Catalyzes the breakdown of wastes and helps control grease build-up.

DIRECTIONS

Dilution rates will vary based upon the application method and the area to be treated

MECHANICAL CLEANING OF LIFT STATIONS, MAINS AND MANHOLES:

LIFT STATIONS: To clean and degrease, add one unit of United 756 for each 1000 units of water in the "Vactor" truck and agitate to clean the lift station. Or, mix one unit of product in 30 units of water, and apply with high pressure sprayer to side walls. United 756 deodorizes and destroys offensive odors. Its superior emulsification and enzyme system quickly penetrates and flushes away grease and sludge accumulations on the sidewalls of the station. United 756 may be used in a "Jetta" truck at 1 unit to 3,000 units of water for the same application.

MAINS: May also be mechanically cleaned using the same dilution rates as for lift stations in the "Vactor" truck.

METERED / DRIP FEED CLEANING OF LIFT STATIONS, MAINS AND MANHOLES:

For lift stations **United 756** should be metered into the closest up-stream manhole at a dilution ratio of between 1 in 5,000 to 1 in 20,000 for best results on a 24 hour basis. If metering at the closest manhole is not practical, apply **United 756** directly into the lift station at the end of the pump down cycle.

For mains and manholes go to the closest up-stream manhole from the problem section. **United 756** should be metered into the main/manhole at a dilution rate between 1 to 1,000 to 1 in 10,000. If metering into the closest manhole up-stream is not practical, apply **United 756** directly into the problematic manhole. For best results daily meter **United 756** at high flow rate periods.

For drip feed systems the dilution ratios and application points are the same as for metered systems.

United 756

LIFT-ZYME

Wastewater Treatment
For Sanitary Collection Systems
Enzyme-Based Grease Pre-Digester
Patented

KEEP OUT OF REACH OF CHILDREN. See other cautions on back/side panel

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MANUAL SLUG DOSING OF LIFT STATIONS, MAINS AND MANHOLES:

For slug feeding of lift stations on a weekly basis the dose should be applied during a low flow period and at the end of the pump down cycle.

For mains, weekly slug doses are best applied at a low flow period at a dosage rate of 1 to every 5,000 units daily flow. Use 1 unit for every 10,000 to 20,000 units daily flow rate as a weekly maintenance dose.

For applications on the wastewater process side, please contact our technical services group for assistance.

FIRST AID MEASURES:

IF IN EYES: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms develop, seek medical attention

IF ON SKIN: Wash with soap and water. Get medical attention if irritation occurs.

IF INHALED: Remove to fresh air. Get medical attention if symptoms occur. If not breathing, give artificial respiration.

IF SWALLOWED: Do not induce vomiting. Rinse mouth. Drink plenty of water. Seek medical attention immediately.

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FOR FOOD PLANT AND OTHER INDUSTRIAL USE: Avoid contamination of food in the application and storage of the product. Do not use on food contact surfaces.

HMIS® III CODE: 0=MINIMAL 1=SLIGHT	HEALTH	0
2=MODERATE 3=SERIOUS 4=SEVERE PERSONAL PROTECTION INDEX: Glasses and Gloves	FLAMMABILITY	0
	PHYSICAL HAZARD	0
	PERSONAL PROTECTION	В

LABORATORIES

UNITED CAIROX® is a specialized oxidant that quickly handles extreme odor situations in wastewater treatment plants and collection systems.

- Effective on H₂S, mercaptans and other noxious odor compounds.
- Prevents sulfide-based corrosion.
- Eliminates the health risks associated with H₂S exposure.

Use this product to control odors and H₂S problems in:

- Dewatering
- Lift Stations Belt Presses and Centrifuges
- Sludge Processing Headworks
- Scum Pits Clarifiers Lagoons

UNITED CAIROX® can be applied manually by spreading across area to be treated. Consult your United Wastewater Specialist for details.

Meets AWWA Standard B 603.

HMIS® III CODE 0=MINIMAL 1=SLIGHT	HEALTH	1
2=MODERATE 3=SERIOUS 4=SEVERE	FLAMMABILITY	0
PROTECTION INDEX	PHYSICAL HAZARD	0
Goggles, Apron, Respirator and Gloves	PERSONAL PROTECTION	F

Net Contents: 1 x 55 Pounds For industrial use only.



United 976

UNITED **CAIROX®**

Granular Permanganate

KEEP OUT OF REACH OF CHILDREN. **DANGER**

STRONG OXIDIZER, CONTACT WITH ACIDS, ORGANIC CHEMICALS, OR OTHER COMBUSTIBLE MATERIAL MAY CAUSE FIRE OR EXPLOSION.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

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Contains: Potassium Permanganate (CAS #7722-64-7)

Strong Oxidizer! Do not use for fumigation. Do not mix with aqueous formaldehyde solution (Formalin). Risk of fire or explosion exists.

Harmful if swallowed. Avoid contact with eyes, skin and mucous membranes. Prolonged inhalation of manganese compounds above the threshold limit value may cause lung irritation and central nervous system disorders.

FIRE OR SPILL:

In case of fire, flood with water. In case of spill, contain spill, scoop into a clean drum. Spilled product must not be returned to original container. Flush contaminated area with large quantities of water. Do NOT use paper or cloth to clean up spills.

HANDLING AND STORAGE:

When handling, use safety goggles, rubber gloves and a respirator. Do not breathe dust. Keep away from heat, sparks, open flames and hot surfaces. Do not smoke when using or near product.

Store product in a tightly closed container and keep away from heat, organic materials, acids, peroxides and other combustible materials

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Immediately flush eyes with large amounts of water for at least 15 minutes holding lids apart to ensure flushing of the entire surface. Do not attempt to neutralize chemically. Seek medical attention immediately.

SKIN: Immediately wash contaminated areas with water. Remove contaminated clothing and footwear. Wash clothing and decontaminate footwear before reuse. Seek medical attention immediately if irritation is severe or persistent.

INHALATION: Remove person from contaminated area to fresh air. If breathing has stopped, resuscitate and administer oxygen if readily available. Seek medical attention immediately.

INGESTION: Never give anything by mouth to an unconscious or convulsing person. If person is conscious, give large quantities of water. Seek medical attention

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CONTAINER DISPOSAL:

Rinse container at least three times to an absence of pink color before disposing.

When you need powerful, effective odor control for wastewater, United has the solutions.

United 975
UNITED CARUSOL®

Liquid Permanganate

These products are formulated with a specialized oxidant

United 976
UNITED CAIROX®
Granular Permanganate

that quickly handles extreme odor situations in wastewater treatment plants and collection systems.

Fast acting performance:

- Effective on H₂S, mercaptans and other noxious odor compounds.
- Prevents sulfide-based corrosion.
- Eliminates the health risks associated with H₂S exposure.

Use this product to control odors and H₂S problems in:

- Lift Stations
- Dewatering
- Sludge Processing
- Belt Presses and Centrifuges
- Headworks
- Scum Pits
- Clarifiers
- Lagoons



H₂S gas causes serious metal, concrete and pipe corrosion and can lead to costly repairs.

UNITED CARUSOL® can be applied manually or be automatically fed using United's A855 Peristaltic Metering Pump or A010 I.V. Drip Device. Consult your United Wastewater Specialist for details.

Big odors are no small problem. Many of the biggest cities in the country use this same technology to control their odor issues though they order product by the tank load. United now makes this same treatment available for even the smallest wastewater plants, allowing you to control your toughest odors in a big way with **United 975** and **United 976**.



