



SANURIL[®]

WASTEWATER SYSTEM

A Better Way To Disinfect Wastewater.



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SEVERN

TRENT

SERVICES

SANURIL®

A NEW APPROACH

The SANURIL Wastewater Disinfection Tablet Feed System can effectively disinfect treated effluent from wastewater treatment plants with capacities of up to 50,000 gallons per day (GPD). When used in parallel, multiple SANURIL systems will handle capacities as high as 100,000 gallons per day. Depending on plant size and the required chlorine residual, a SANURIL disinfection system can operate without attention for as long as 60 days. Additionally, there are no complex piping arrangements (such as bypasses, feed lines or mixing tanks), no electrical power requirements, and no moving parts – operation is truly simple.

SANURIL is perfect for:

- housing developments
- highway rest stops
- industrial plants
- offshore drilling platforms
- trailer parks
- motels
- campgrounds
- parks
- schools

SANURIL can be used with almost any wastewater treatment system:

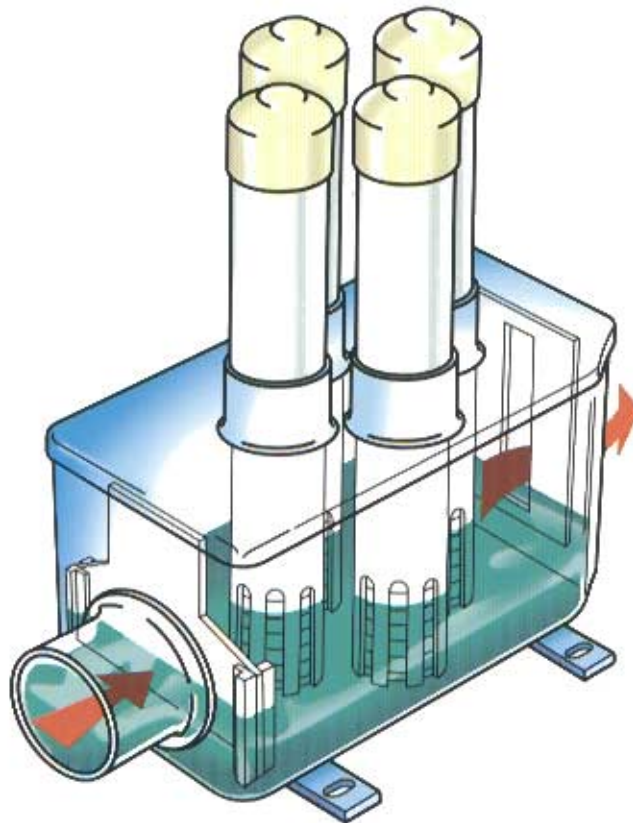
- package treatment plants
- contact stabilization plants
- home aerobic plants
- septic tank – sand filter systems
- lagoons – oxidation ditches
- physical-chemical plants
- spray irrigation systems

A complete SANURIL disinfection system consists of only two pieces – SANURIL 115 tablets and a tablet feeder. SANURIL 115 is a disinfecting agent that provides a chemically stable source of chlorine and bromine for disinfecting the wastewater. When the tablets come into contact with the water stream, chlorine and bromine are released into the effluent stream at a

controlled dissolve rate. There are no toxic gases to handle, or equipment such as pumps, tanks or flow meters to maintain.

SANURIL 115 tablets contain a combination of calcium hypochlorite and 1-bromo-3-chloro-5, 5-dimethylhydantoin (BCDMH) formed into solid tablets 2 5/8 inches in diameter by 13/16 inches thick with a weight of about 5 ounces.

The compact, adjustable, flow-regulated, tablet feeders are specially designed to dispense a predetermined quantity of SANURIL, and are available in four sizes (Model 1000, 1001, 200 and 100) with the appropriate model determined by the average daily flow rate and the required dosage of chlorine-bromine.



How does SANURIL work?

The entire flow of treated wastewater passes into the feeder housing through a pipe or trough. As the stream of water flows past the feed tubes containing the SANURIL 115 tablets, active chlorine-bromine is released into the wastewater by the dissolving action of the water stream in contact with the tablets. When the incoming water flow rate increases, the water level inside

the feeder rises, immersing a greater number of SANURIL 115 tablets. A drop in water level exposes fewer tablets to the water. Since the amount of SANURIL 115 dissolved depends on the number of tablets in contact with the water stream, the initial chlorine-bromine concentration remains constant regardless of the water level in the feeder.

Extensive field testing under actual operating conditions has proven SANURIL 115 superior to other commonly used disinfectants in three important areas.

1. *Unsurpassed Bacteria Killing Power*

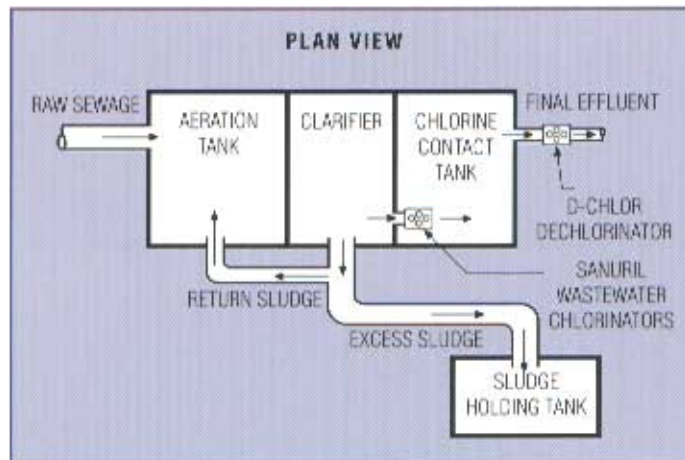
Closely controlled concentration of disinfecting agent and thorough hydrodynamic mixing with the wastewater provide faster, more effective killing power.

2. Broader Organism Kill

Bromine reacts with ammonia in the wastewater and forms bromamines, which have as much germicidal effect as free chlorine. Additionally, bromine has a wider organism kill than chlorine alone.

3. Convenient and Easy

SANURIL 115 tablets are convenient, easy to handle and long lasting. There is no need to handle toxic chlorine gas or hazardous liquid chlorine compounds, and no need to pre-mix anything. The user simply stacks the convenient tablets in the feed tubes, and they are ready to work when needed. The firmly compressed tablets are designed to dissolve evenly and will not crumble or break when immersed in a stream of water. They will not "wick," or absorb moisture causing tablets in the stack above the water level to dissolve prematurely.



TABLET FEEDERS

Model 1000 and Model 1001

The Model 1000 and Model 1001 feeders handle treated effluent from any sewage treatment plant having a design capacity of up to 35 gpm (50,000 gpd) and maximum of 80 gpm



at peak flow. Two feeders in parallel will handle plants with average flow rates of 100,000 gpd. The Model 1000 and Model 1001 feeders are furnished with a selection of calibrated weir plates, ranging from 1-inch to 3-inch openings for use at the outlet end to control the internal water level. Both models are made of tough, UV stabilized,

rotomolded polyethylene. Compact and easy to handle, the Model 1000 measures about 25 inches long, 18 inches wide and 25 inches high (with feed tubes installed). The Model 1000 and Model 1001 feeders each have 4 PVC feed tubes with PVC caps available to dispense the SANURIL 115 tablets. Each feed tube can hold 29 SANURIL 115 tablets. The Model 1000 has nominal 6-inch O.D. inlet pipe connection. The Model 1001 has a blank inlet end for easy field adaption to the existing pipe dimensions and can accommodate up to a 10-inch diameter.

Model 100

The Model 100 feeder can handle treated effluent from small sewage treatment plants having a design capacity of up to 7 gpm (10,000 gpd) and a maximum of 35 gpm at peak flow.



Typical installations are restaurants, drilling platforms, recreation parks, small industrial plants, trailer parks, rest stops and schools. At the outlet end a fixed 1-inch v-notch weir controls the water level in the feeder. The Model 100 is made of tough, UV stabilized, rotomolded polyethylene. Compact and easy to handle, the Model 100 measures about 21 inches

long, 10 inches wide and 25 inches high (with feed tubes installed). The Model 100 has 2 PVC feed tubes with PVC caps available to dispense the SANURIL 115 tablets. Each feed tube can hold 29 SANURIL 115 tablets. The Model 100 has nominal 4-inch O.D. inlet pipe connection.

Model 200

The Model 200 feeder is ideally suited for use with individual home treatment plants having a design capacity of 1,500 gpd. Constructed of tough, UV stabilized, rotomolded polyethylene, the Model 200 is compact and easy to handle and measures about 21 inches long, 8 inches wide and 25 inches high (with feed tubes installed). The Model 200 has 2 PVC feed tubes with PVC caps available to dispense the SANURIL 115 tablets. Each feed tube can hold 29 SANURIL 115 tablets. The Model 200 has both an inlet and outlet pipe connection, each having a nominal 4-inch O.D.

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THE SANURIL WASTEWATER SYSTEM – Compare The Advantages

Low Capital Cost

In addition to the low initial investment in the SANURIL feeder, your savings on other equipment costs are substantial. You don't need to pay for pumps, mixing tanks, or costly control devices required on most other types of chlorination systems.

Easy, Low-Cost Installation

Simple, one-piece construction requires only inlet piping—no electrical power, wiring, bypasses or auxiliary monitoring equipment are required.

Minimal Operating Costs

After the initial adjustments, the SANURIL System operates unattended for longer periods of time. There are no costs for electrical power or auxiliary water. Labor costs are reduced since there is no need for time-consuming pre-mixing. Occasional refilling of feed tubes with convenient SANURIL 115 tablets is quick and easy.

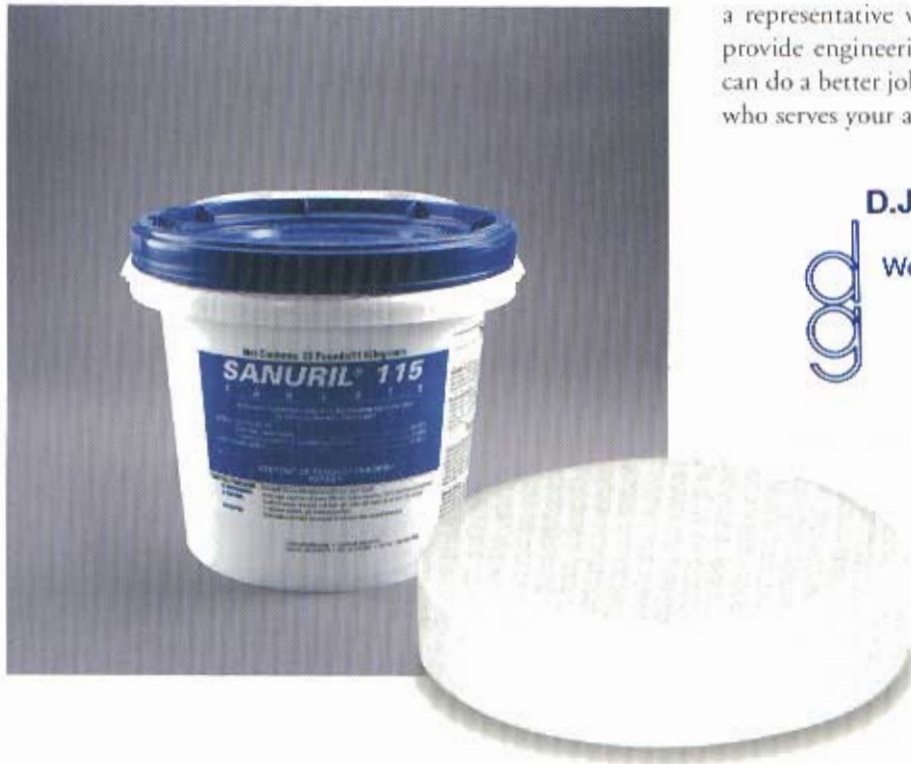
Less Maintenance and Service

Tough UV stabilized polyethylene construction is rust and corrosion proof, eliminating the need for protective maintenance. The shearing effect of the water stream through the feeder provides a self-cleaning unit. Since there are no tanks, pumps, cylinders, external control devices or other moving parts, maintenance and service costs are practically eliminated.

Better Performance

In the SANURIL System, the entire flow passes through the feeder. The combination of the exclusive SANURIL 115 formula, hydrodynamic feeder design and unique weir control of water level assures thorough mixing of chlorine, bromine, and wastewater and precise control of chlorine-bromine content. It all adds up to the best performance on the market—more bacteria-killing power—broader organism kill.

Whether you are planning a new plant, replacing original equipment or expanding present facilities, you will get better results with a SANURIL System. If you need more information, a representative will be pleased to survey your requirements, provide engineering assistance and show you how SANURIL can do a better job. Call or write for the name of the distributor who serves your area.



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