

ANOSAN[®] ROYAL GREEN

DISINFECTION OF IRRIGATION WATER

ecabiotec
biotechnology



ANOSAN® ROYAL GREEN

A highly effective, neutral disinfectant on a purely mineral basis. The treated water is germ-free, clear and the pH-value is not changed.

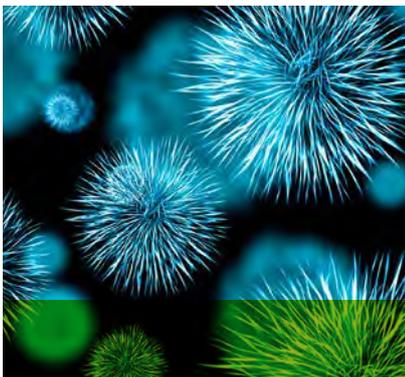


REMOVES: BACTERIA, FUNGI, ALGAE, VIRUSES & BIOFILM

Irrigation water is generally surface water and especially in the warm season strongly contaminated with germs of all kinds.

Nobody would dream of, to wash with such water or drink it at all. Potentially critical are human pathogens that are spread and inhaled while sprinkling over fine droplets (aerosols) with the wind for humans. Fungi and algae are critical for the lawn that are applied at each irrigation in large numbers and are distributed on the blades of grass and the ground. It was missing at practical methods with the hygiene requirements of a golf course facility needs. This is now final.

ANOSAN® Royal Green acts against free-floating bacteria and biofilm in water tanks, irrigation bars, hose lines, syringes etc. This way less germs are spread significantly, which burden the Green and severely damage under certain circumstances. The permanent coating of septic water disturbs the turf biology and favors anaerobic conditions that are promoted by the low proportion of topsoil, fertilization and constant moisture on.



Bacteria, fungi and algae are in high concentrations detectable.

Strongly contaminated raw irrigation water promotes:

- smelly turf base layers
- poor root growth
- incomplete inventory
- settlement of very strong growing Grass "Poa annua" in open violations of greens
- spread of algae layers
- Formation of "Black layers"

A process has been developed which produces components, all of which have biocidal properties and which are **approved** for the disinfection of drinking water in accordance with **DIN EN 901** (TVO accordingly).

ANOSAN® Royal Green is non-toxic, however, destroys the cell membranes of micro-organisms and kills them.

We have continued to develop our product for the disinfection of drinking water especially for the hygienic requirements for the irrigation of lawns. We thereby completely omitted organic chemistry. Anosan® Royal Green does not pollute the environment. Using a patented process, a neutral, aqueous saline (about 0.5%) is produced with a high positive redox potential.

Application:

The liquid product produced by our process ANOSAN® Royal Green, in concentrations ranging from 1: 500 to 1: 1000 injected directly into the irrigation line or at a strong algae for direct combat in concentrations of 1:50 (or more) are partially applied. Edit algae-affected surfaces before application with ANOSAN® Royal Green mechanically.; suitable are devices which scratch the algae crust.

With heavy infestation*: 100 ml ANOSAN® in 2 liters of water/m². Repeat every 14 days.

In middle-infestation: 50–80 ml ANOSAN® in 2 Liter water/m². Repeat as necessary after 14 days.

At low infestation: 50 ml ANOSAN® in 2 liters of water/m².
*heavy infestation occurs when more than 30–40% of the area are infested or if the algae layer > 1mm thick.

After application:

- On the same day can take place overseeding with appropriate grass mixtures.
- The use of ANOSAN® Royal Green should be repeated with a strong algae about 14 days after initial treatment. In this case, the lower concentration can be selected.

Packaging: 20 Liter Kanister

Application rate: 20 L/ha

Water volume: 400 bis 800 L/ha

Maximum applications per year: Unlimited. It must be respected no time lag.

Recommended application frequency: monthly during the season.

"Algae are unpretentious and persistent. • On professional lawns they occur frequently and become a problem. Prevention is the best strategy. "



A NEW BIOLOGICAL PRODUCT FOR IRRIGATION WATER



General application advice:

- ANOSAN® Royal Green must not be mixed with other products (eg fertilizer)
- 3–4 days prior to use no fertilizer, no wetting agent and no pesticides should be applied
- there should be used large nozzles to minimize the drift of aerosol
- there must be sufficient soil moisture
- the application is largely independent of the weather (don't spread ANOSAN® Royal Green during heavy rain or sweltering heat)
- after the application every mechanical work can be executed
- ANOSAN® Royal Green does not have to be watered thoroughly
- ANOSAN® Royal Green is not a hazardous material, special protective equipment when handling is not required

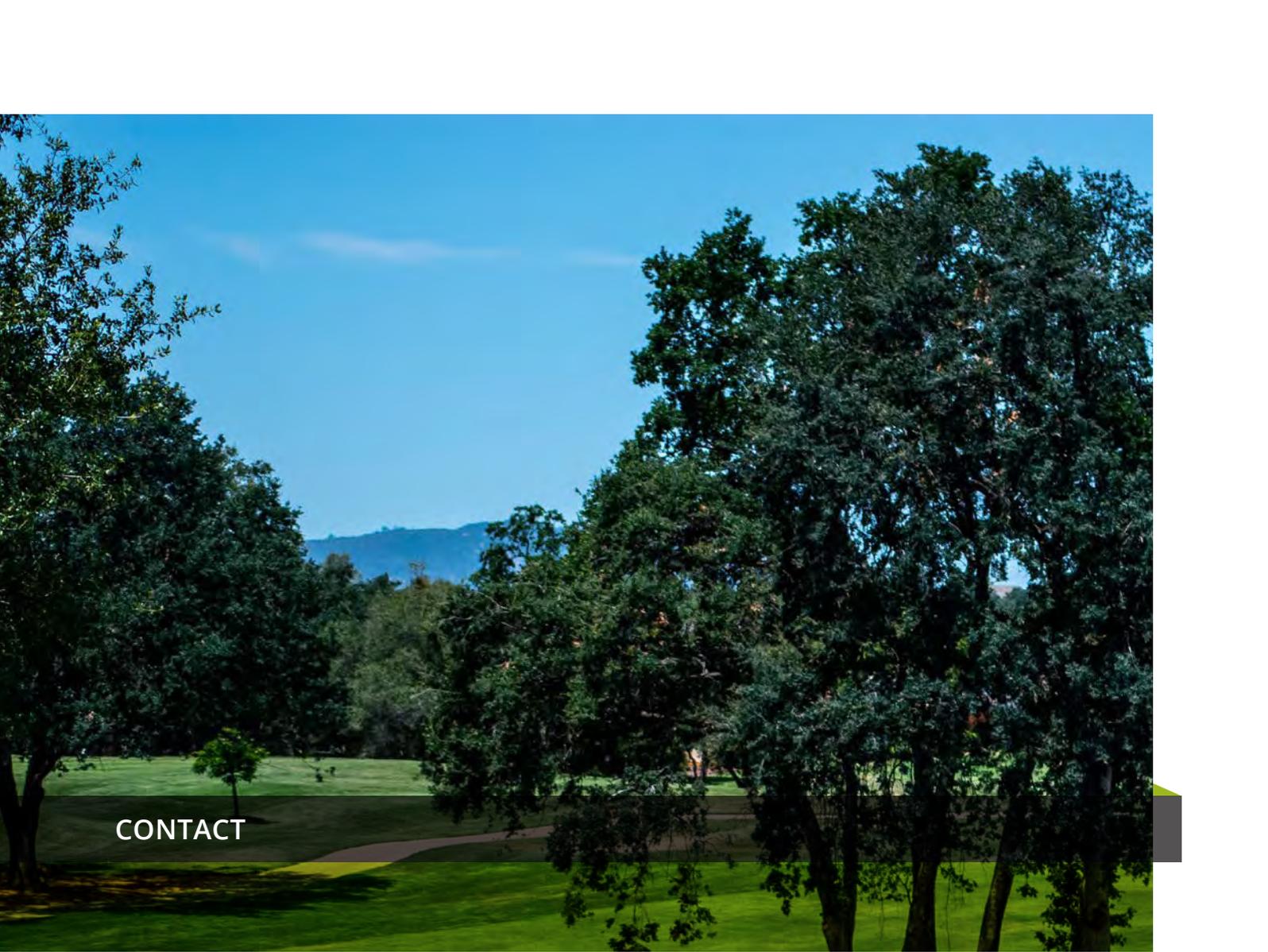
If ANOSAN® Royal Green is added to the water, it has a residual activity if it penetrates the soil. This permits surface algae to be suppressed, especially if you previously mechanically loosened the soil and scratched the algae layer.

Instant reseeding and planting closes the previous algae infected areas.

The bacterial attack on the with ANOSAN® Royal Green irrigated lawns is reduced. Felt layers and spots recede and the grass can recover. The foul odor of the backing layer is little by little supplanted by earthy smell and the grass roots and greens back to normal. The spectrum of activity, the efficiency and the positive results in total speak for our water treatment processes. However, it is important to us and the scientific monitoring and the safety of the use of ANOSAN® Royal Green.



*ecabiotec[®] improves
the microbiological
quality of drinking
water and process
water from rivers
or treatment plants
with its products.*



CONTACT



ecabiotec® AG

Starkenburgstr.10
64546 Mörfelden

Vorstand: Bendix Todsén, Volker Vreys

Aufsichtsrat: Alexander Lattmann (Vorsitzender)

Tel. Zentrale +49 (0) 6105 45 40 640

Tel. Technik +49 (0) 6105 45 40 642

Fax +49 (0) 6105 45 40 637

E-Mail info@ecabiotec.de

www.ecabiotec.de