CHT

SMART CHEMISTRY
WITH CHARACTER.

BIOTIKOS

SUSTAINABLE WATER TREATMENT

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WATER TREATMENT TECHNOLOGY

Let it flow: Clear water isn't just refreshing, it's also key for smoother productions and processes on various applications. To keep it clean and sustainable, a brand new approach has been created at CHT.

TECHNOLOGY

Clean water circuits are essential for fast and reliable paper production. Microbiological contamination can lead to significant down times due to frequent cleaning intervals. It is therefore inevitable to implement a cost-effective water treatment program. Common biocides usually contain oxidizing agents, isothiazolinones or DBNPA. While these products are well established, they are hazardous when not applied properly. Moreover, European legislation increasingly limits the use of biocidal products.

CHT has recently developed a completely new concept of water treatment: a probiotic approach with **BIOTIKOS**. This sustainable technology redefines conventional water treatment. **BIOTIKOS** contains highly concentrated naturally occurring non-pathogenic bacteria. When administered in sufficient amounts, they displace undesired slime-forming and odorous species. By replacing conventional biocides with our probiotic approach, our customers obtain clean water circuits without hazardous chemicals.

PRODUCT DETAILS

- Naturally occurring, non-GMO bacteria (probiotics)
- Milky opaque liquid
- pH value of a 10 % Solution: 7 ± 2
- Meets FDA's GRAS criteria (generally recognized as safe)
- Compliant with BfR XXXVI (exempted as cleaning agent)
- Ecolabel (category cleaners)
- Acute dermal irritation / corrosion OECD 404: no effect
- Acute eye irritation / corrosion OECD 405: no effect
- Skin sensitization OECD 406: no effect

APPLICATION FIELDS AND DETAILS

- Freshwater plants
- Cooling towers
- Water circuits of paper machines
- Deinking plants (substitution of glutaraldehyde to inhibit catalases)
- Dosages typically vary between 0.01 – 0.10 % (depending on the application field and the microbial contamination)