

## A Safe Production and Dosing of Hypochlorite Solution

The uninterrupted supply of drinking water in high-grade quality is the top priority for water suppliers to fulfil legal requirements. The German **AVBWasserV** for example requires, as part of the technical risk management, emergency chlorinators to prevent contamination in consequence of technical damage or catastrophes. The new mobile "SAFETYCHLORMIX" CHC dosing station enables the safe production of hypochlorite solution from solid calcium hypochlorite directly at the point of use. The dry chlorine granulate is held available in the packaging in storage stable fashion. After adding water the chlorine can be dosed directly out of the packaging into the process without the need of further handling of the chemical. The integrated air mixer produces a constant turbulence to guarantee a homogeneous solution.



SAFETYCHLORMIX safety station

A large proportion of the low-soluble contents remains in the packaging and can be disposed of safely. The dosing medium itself is largely free of suspended load. A pump from the tried and tested MAGDOS series ensures precise dosing of the disinfectant. This is effected either with a manually set dosing volume or controlled via a

measurement and control application such as the TOPAX controller or a flow meter. Apart from the case of emergency the mobile CHC dosing station can also be used for the disinfection of newly-installed pipe sections, before start-up, during service work, during repair of the distribution grid or for shock disinfection. ■

## BIO-UV Water Treatment for Waste Water

**BIO-UV**, an innovative industrial SME and a French manufacturer of ultraviolet light water treatment equipment designs, manufactures and markets systems and concepts of disinfection by ultraviolet light (UV-C). The company has developed sanitizers using the most advanced UV technologies for tertiary treatment by disinfecting

municipal or industrial waste water. BIO-UV treatment makes it possible to: protect the environment downstream of the discharge of treatment plants, particularly when there are bathing areas, white water activities, fishing and aquaculture activities nearby. Reuse the purified waste water for agricultural irrigation, spraying of green

open spaces and golf courses, or for industrial processes (washing water etc.) The company proposes a low pressure technology and various types of reactors in order to adapt to the aims of the treatment and to the installation and maintenance constraints. In certain cases, prior filtration (on a sand bed) may be necessary. At 254 nanometers, the optimum wavelength for destroying micro-organisms, UV-C rays penetrate to the heart of DNA and disturb the metabolism of cells until they are totally destroyed. All germs are thus deactivated (including Legionella and Cryptosporidium) and cannot reproduce. The reactors in the BIO-UV ranges are dimensioned according to the flow rate: it is the combination of the contact time in the reactor and the power of the lamp(s) that will ensure that the necessary dose sufficient to kill 99.9 percent of the micro-organisms (bacteria, viruses, algae in suspension) is received. ■



BIO-UV treatment