



# Product Information

## UVW B 1050

### Microbicide for Controlling Growth of Bacteria, Algae and Fungi in Circulating Water Systems

#### Application:

Microorganisms such as algae, bacteria and fungi are omnipresent and most water-conducting systems offer ideal living conditions. An unhampered growth in most cases leads to operational disruptions, corrosion damages and the spread of infectious diseases after only a short period of time. A reliable control of the population of microorganisms is therefore an indispensable part of water treatment.

The extent of the required control is dependent on the type of the water-conducting system. Open cooling water cycles rely on a deposit-free operation and on a limitation of the bacterial growth from a hygienic point of view. In closed water cycles and in some process waters, the control of anaerobic bacteria plays a special role. In circuits with cutting oils or drilling emulsion, the focus is directed on the protection of the system material from bacterial degradation. In addition, the ecological and toxicological impacts have to be taken into account, as well as the compatibility with other materials.

Consequently, the type of biocide treatment is dependent on the individual water circuit.

#### Product Description:

UVW B 1050 is a concentrated, aqueous solution consisting of a combination of isothiazolinone compounds. UVW B 1050 is particularly suited for an economic application in both open and closed water circulations. UVW B 1050 is distinctively effective towards slime-forming bacteria such as Legionella and Pseudomonas. At usual doses, UVW B 1050 is long-term stable. Only at concentrations below its bactericidal activity, it is exposed to degradation. Sufficiently diluted, UVW B 1050 is not harmful to activated sludge in biological waste water treatment plants and therefore does not represent an ecological burden when discharged into sewers.

#### Dosage:

UVW B 1050 should be dosed discontinuously with help of a suited dosing device. The dosing interval and amount have to be determined specific to the system. With respect to closed circulations, a single dosage in the range of 300 to 1000 g/m<sup>3</sup> system water is usually applied. At this concentration, UVW B 1050 is considered effective against Legionella pneumophila according to DIN EN 13623. In open circulations, a dosage of 100 to 300 g/m<sup>3</sup> system water in regular intervals is recommended. In order to determine the optimal dosage, it is advisable to perform microbial counts. An increase in germination number should be counteracted by increasing or repeating the dosage.

#### Handling:

UVW B 1050 is a corrosive substance.

Labelling:



H-phrases: Harmful by inhalation. Causes severe skin burns and eye damage. May cause allergic skin reactions. Very toxic to aquatic life with long lasting effects.

P-phrases: 260, 280, 303/361/353, 305/351/338, 310

#### Technical Data:

UVW B 1050 is a clear yellow-green liquid.

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|-------------------------|-----------|
| Density:                | 1.06 kg/l |
| pH-value (1% solution): | 4 – 5     |
| Freezing point:         | - 4 °C    |
| Boiling point:          | 100 °C    |