

Kuriverter® IK-220

Powerful Biofilm Control Agent for Membrane Systems

Applications

Microbiological activity leads to the formation of biofilms on membrane surfaces, causing reductions in permeate or filtrate flux and increased operating costs.

Kuriverter® IK-220 is a highly effective patented biofilm control agent specifically designed for membrane systems that are fouled with dense or persistent biofilm. The product is compatible with most membrane types including thin film polyamide and cellulose acetate reverse osmosis membranes and PVDF and PES Ultrafiltration membranes.

Kuriverter® IK-220 inhibits the formation of biofilm caused by bacterial and fungus at a low dosage.

Kuriverter® IK-220 has an excellent biofilm removing and dispersing effect.

Kuriverter® IK-220 is a non-foaming product which is easy to handle. Having passed through the membrane system it decomposes quickly in aqueous media at use concentrations.

Kuriverter® IK-220 is intended for professional use only.

Dosing Guidelines

Kuriverter® IK-220 can be applied to membrane systems by using a metering pump directly into the feedwater. The dosage required depends on the feed water quality and operating conditions of the system and should be selected with the help of a Kurita-representative.

In general, the product concentration in the supply water should be in the range of 3 to 20 mg/l. In the case of heavy and persistent biofilm

an initial dose of between 20 to 50 g/m³ may be applied.

Once effective microbiological control has been established, dosing can be optimized. A strategy of intermittent dosing, typically in the range of 5-20 ppm for 3 – 6 hours per day can implemented.

The continued effectiveness of the product can be confirmed by monitoring operating parameters or by using Kurita's HydroBio® Advance online biofouling monitor.

Chemical and physical properties

Kuriverter® IK-220 is a liquid combination product based on stabilized chlorine compounds which will not deteriorate polyamide Reverse Osmosis membranes.

Characteristics	Data
Colour and appearance:	Colourless to yellowish clear liquid
pH (100 %).	> 12.5
Density (20 °C/68°F):	1.29 ± 0.05 g/cm ³

Effect on Environment

The product is non-volatile and non-inflammable.

For further information please see material safety data sheet.

Regulatory Information

Kuriverter® IK-220 is registered by the German CA BAuA under No. N-108411 for PT 4, PT 11 and PT 12.

PRODUCT INFORMATION KURIVERTER® IK-220

Handling

Kuriverter® IK-220 should be applied undiluted.

The dosing equipment (containers, pumps, pipelines) must be made of alkaline resistant material e.g. PE, PVC, PTFE.

Effect on Environment

The product is non-volatile and non-inflammable.

For further information please see material safety data sheet.

Attention

Use biocides safely. Always read the label and product information before use.

Always consult the safety data sheet before use.

Storage

Store the product in a dry, cool and ventilated location, in the original package. Protect it from direct sunlight and heat. The product quality requires storage between 5 to 25 °C. Keep containers tightly closed when not in use. Do not use the empty containers for drinking water supply.

The expiry date of the product is given on the packaging labels

The shelf life applies to unopened packaging.

Certification

Our quality management system (ISO 9001), environmental management system (ISO 14001) and occupational health and safety management system (ISO 45001) are successfully certified by Lloyd's Register.

The information in this publication reflects our level of technical knowledge and experience at the time of print of this product information. The information is provided by Kurita Europe GmbH at the best of its knowledge and in good faith. Within legal frameworks, it does not, however, constitute legal warranties, liabilities, covenants or such by Kurita Europe GmbH but are provided as guidance only. This is notably true in view of particular characteristics or of fitness for a specific purpose of the product. The above-mentioned information does not relieve the user of the product from the obligation of own examinations, appropriate precautionary measures and tests due to the abundance of possible influences during storage, manufacturing and application of the product – this is explicitly recommended by Kurita Europe GmbH. It shall be the responsibility of the recipient of our products to respect any intellectual property rights, existing laws and other provisions. If not explicitly regulated differently and in writing, the General Terms and Conditions of Kurita Europe GmbH are unaffected by this product information.

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