



Comply with EU regulations
CEN/TS 164, EN 15039 and EN 15040 used for treatment of water intended for human consumption

Scale Inhibitor ROPUR RPI-4900

Date: 01.12.2010

GENERAL

RPI-4900 is specially designed to inhibit the scale formation in RO-systems equipped with polyamide-, celluloseacetate- and polyethermembranes with anionically charged surface.

RPI-4900 is a stabilized solution of organic phosphonates and inorganic neutralizing agent.

RPI-4900 shows a strong threshold – effect and therefore prevents scaling of calcium carbonate, calcium sulphate and calcium fluoride in membrane systems. Moreover **RPI-4900** prevents deposits of metal ions such as iron due to its sequestrant property.

APPLICATION AND DOSAGE

RPI-4900 is designed and approved as a highly efficient scale inhibitor for use with cellulose acetate and polyamide membranes. There is no interaction with the membrane material.

The dosage is controlled proportionally to the feed water flow. Standard metering pumps are used. Fitting materials are PE, PP or coated steel. In order to avoid biological fouling, the containers have to be cleaned from time to time with a 10 % sodium bisulphate solution.

RPI-4900 can be diluted with water in any ratio. However, it is recommended to inject the antiscalant undiluted or as solution up to 10 %. The diluted solutions have to be consumed within 48 hours after preparation. The required dosage level depends on the operating conditions and water composition and varies in the range of 1 – 8 ppm as delivered.

RPI-4900 is easy to be handled and does not contain any aggressive component. The pH value of the product is alkaline.

PHYSICAL PROPERTIES

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|-------------------------------|-------------------------------|
| Appearance: | clear yellowish liquid |
| Density: | 1,34 – 1,37 g/cm ³ |
| pH-value: | 10,8 – 11,2 |
| Freezing point: | - 15° C |
| Boiling point/boiling range : | 100 °C |
| Solubility in water: | unlimited |



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STORAGE & HANDLING

RPI-4900 is not classified as a hazardous chemical (GGVE/GGVS, ICOA/IATA). Standard regulations and precautions when dealing with chemical products have to be followed.

RPI-4900 is easy to store. The storage temperature should be between +2 °C and 35 °C. The product is supplied in containers suitable for air or sea transportation.

The safety data sheet contains more information.

PACKAGING

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|-----------------------------|--------------|
| Polyethylene container (PE) | 23.5 kg net |
| Standard drum (PE) | 240 kg net |
| Container (PE) | 1.100 kg net |

The data and information contained in this data sheet are based on technical data and tests we believe to be reliable. They are offered in good faith for use by persons having appropriate technical skill at their own discretion and risk. Supplier has no control of design and operating conditions and consequently cannot assume any reliability for results obtained or damage incurred through the use of the product presented. ROPUR RPI Antiscalants are continuously improved and therefore we reserve the right to modify or amend specifications without prior notice.