



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: 06.06.2019

### 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 which prevents mainly the scaling of calcium carbonate, calcium sulphate and calcium fluoride to happen in membrane systems. Moreover **RPI-4900** prevents deposits of metal ions such as iron due to its sequestrant property. Additionally, the RPI-4900 has specific anti-oxidizing properties able to protect polyamide membranes to be damaged by some oxidation reactions.

### 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 0.1 – 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

Appearance:	clear yellowish liquid
Density:	1,38 – 1,44 g/cm <sup>3</sup>
pH-value:	9.5 – 11.0
Freezing point:	- 15° C
Boiling point/boiling range :	100 °C
Solubility in water:	unlimited



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

## 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. Do not expose to direct sunlight especially in war areas of the globe. The product is supplied in containers suitable for air or sea transportation.

The safety data sheet contains more information.

## PACKAGING

20 L canister (PE)	25 kg net
Standard blue drum (PE)	270 kg net
IBC Container (PE)	1.200 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.