

DESCRIPTION

Aquasol - R10 is an excellent multifunctional antiscalant/antifoulant for use in reverse osmosis, nano filtration and electro-dialysis reversal systems. It inhibits the formation and growth of silica, calcium carbonate, calcium sulphate, strontium sulphate, barium sulphate, calcium fluorides and metal oxides scales.

It minimizes or eliminates acid feed for scale control, also disperses metal ions and colloids thus improving system efficiency

Foulant	Index	Saturation limit with Aquasol R10
CaCO ₃	*LSI	+2.5
CaSO ₄	#IP _b / K _{Sp}	4.2
Silica	**SCR	2.5

• Langlier saturation Index

Aquasol R10 in brine/solubility product of salt

**SCR=Silica concentration ratio with 165 ppm SiO₂, 7.5 pH, 25°C

SPECIFICATION

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Appearance	Pale yellow to yellow colored liquid
pH as supplied	2.0 – 4.0
Specific gravity	1.15 – 1.25
Solubility in water	Miscible in all proportions
Flash point	Non-flammable aqueous solution

ADVANTAGE

- it is certified to ANSI/NSF Standard 60 for the production of potable water by RO/NF/EDR
- Highly effective across a broad spectrum of waters
- Minimizes scaling and reduces the frequency of membrane cleaning



- Will reduce, and usually replace the need for acid addition
- Excellent threshold inhibitor & crystal distorter of alkaline earth metals & silica scales
- Effective at low dosages
- Compatible with most membrane types
- Maintains colloids and metal ions in suspension until rejection thus minimizing fouling

APPLICATION

AQUASOL R 10 should be injected in membrane systems after chlorine and sodium metabisulphite treatment as such or diluted. Dilution should be done with RO permeate or equivalent quality water for preferably not less than 10% solution. The solution should be kept covered and should be consumed within 4-5 days. AQUASOL R10 is not compatible with residual cationic polymers from the pre-treatment.

Recommended uses is 1-8 PPM

PANACEA CHEM SPECIALITIES LLP

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HANDLING

A dosage projection is required for each system to determine the proper dosage. A complete water analysis and system details are required based on which accurate dosage projection can be recommended by our sales representative.

I-8113 is not considered hazardous but as with all industrial chemicals, care should be taken in its handling and use. Keep the container closed when not in use, the product should not be swallowed and prolonged contact with the skin should be avoided. Wear goggles & face shield and rubber gloves while handling this product. Keep away from direct sunlight & under good ventilation for storage
Use Gloves, mask and goggles while handling the Product.

STORAGE, PACKAGING AND SHELF LIFE

AQUASOL R10 is available in 30 kg Carbouys. Shelf life of AQUASOL R10 is 2 years under normal handling and storage conditions. It is advisable to keep container tightly closed in a cool place.

Toxicity and Labelling

Acute toxicity:	
Preventol CMK	LD50 oral, rat 1800-5000 mg/kg
Preventol CMK-Na	LD50 oral, rat (male): 1610 mg/kg LD50 oral, rat (female): 1360 mg/kg

- The Product Preventol CMK is classified as harmful (Xn) and dangerous for the environment (N). Hazard description and R-phrases:
- R 21 / 22: Harmful in contact with skin and if swallowed. R 41: Risk of serious damage to eyes.
- R 43: May cause sensitization by skin contact. R 50: Very toxic to aquatic organisms.
- The Product Preventol CMK-Na is classified as corrosive (C). Hazard description and R-phrases:
- R 21 / 22: Harmful in contact with skin and if swallowed. R 34: Causes burns.

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