

## Filtration Chemical

# INDION® 8111

## RO/NF/EDR Antiscalant

### Application

INDION 8111 is an excellent multifunctional antiscalant/antifoulant for use in reverse osmosis, nanofiltration 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 minimises or eliminates acid feed for scale control, also disperses metal ions and colloids thus improving system efficiency.

| Foulant           | Index                              | Saturation limit with INDION 8111 |
|-------------------|------------------------------------|-----------------------------------|
| CaCO <sub>3</sub> | *LSI                               | +2.5                              |
| CaSO <sub>4</sub> | # IP <sub>b</sub> /K <sub>sp</sub> | 4.2                               |
| Silica            | **SCR                              | 2.5                               |

\*Langliar saturation Index; #Ion product in brine/solubility product of salt; \*\*SCR=Silica concentration ratio with 165 ppm SiO<sub>2</sub>, 7.5 pH, 25°C

### Benefits & Features

- 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
- Minimises scaling and reduces the frequency of membrane cleaning
- Will reduce and usually replace the need for acid addition
- Excellent threshold inhibitor and 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 minimising fouling

### Product Specifications

|                     |   |                                       |
|---------------------|---|---------------------------------------|
| Appearance          | : | Pale yellow to yellow coloured liquid |
| pH as supplied      | : | 2.0 - 4.0                             |
| Specific gravity    | : | 1.10 - 1.20                           |
| Solubility in water | : | Miscible in all ratios                |
| Flash point         | : | Non-flammable aqueous solution        |

## Direction for Use

INDION 8111 should be injected in membrane systems after chlorine and sodium meta-bisulphite 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. INDION 8111 is not compatible with residual cationic polymers from the pre-treatment.

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.

## Limitations and Handling

INDION 8111 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.

## Storage, Packaging & Shelf Life

INDION 8111 is available in 25 kg pails, 50/200 kg drums and 1100 kg IBC. Shelf life of INDION 8111 is two years under normal handling and storage conditions. It is advisable to keep container tightly closed in a cool place.

The information contained herein, is to the best of our knowledge, true and accurate. No warranty, expressed or implied is made except that the products discussed herein complies with the chemical description.

**INDION** is the registered trademark of Ion Exchange (India) Ltd.

## ION EXCHANGE (INDIA) LTD.

### Corporate Office

Ion House, Dr. E. Moses Road,  
Mahalaxmi, Mumbai 400 011  
Tel: +91 22 3989 0909  
Fax: +91 22 2493 8737  
E-mail: [ieil@ionexchange.co.in](mailto:ieil@ionexchange.co.in)

### Chemical Division

4<sup>th</sup> Flr, Riviera Apartment, Dwarkapuri Colony,  
Punjagutta, Hyderabad 500 082  
Tel: +91 40 3066 3101 / 02 / 03  
Fax: +91 40 3066 3104  
E-mail: [hydcro@ionexchange.co.in](mailto:hydcro@ionexchange.co.in)

### International Division

R-14, T.T.C MIDC, Thane - Belapur Road,  
Rabale, Navi Mumbai 400 701  
Tel: +91 22 3989 0909 / 3913 2400  
Fax: +91 22 2769 7918  
E-mail: [export.sales@ionexchange.co.in](mailto:export.sales@ionexchange.co.in)

## OFFICES

| Regional      | Telephone                    | Fax              | E-mail   |
|---------------|------------------------------|------------------|--|
| Chennai       | +91 44 3989 0909 / 3910 2900 | +91 44 2815 3361 | <a href="mailto:checro@ionexchange.co.in">checro@ionexchange.co.in</a>           |
| Delhi         | +91 11 3989 0909 / 3054 3200 | +91 11 2577 4837 | <a href="mailto:delcro@ionexchange.co.in">delcro@ionexchange.co.in</a>           |
| Kolkata       | +91 33 3989 0909 / 3043 3400 | +91 33 2400 4345 | <a href="mailto:calcro@ionexchange.co.in">calcro@ionexchange.co.in</a>           |
| Vashi         | +91 22 3989 0909 / 3913 2300 | +91 22 2788 9839 | <a href="mailto:mumcro@ionexchange.co.in">mumcro@ionexchange.co.in</a>           |
| Branch        |                              |                  |  |
| Bengaluru     | +91 80 2204 2888             | +91 80285 32002  | <a href="mailto:bngcro@ionexchange.co.in">bngcro@ionexchange.co.in</a>           |
| Bhubaneswar   | +91 674 326 9525 / 257 1491  |                  | <a href="mailto:bbsr@ionexchange.co.in">bbsr@ionexchange.co.in</a>               |
| Chandigarh    | +91 172 274 5011             | +91 172 274 4594 | <a href="mailto:delcro@ionexchange.co.in">delcro@ionexchange.co.in</a>           |
| Hyderabad     | +91 40 3066 3101 / 02 / 03   | +91 40 3066 3104 | <a href="mailto:hydcro@ionexchange.co.in">hydcro@ionexchange.co.in</a>           |
| Lucknow       | +91 522 319 9911             | +91 11 2577 4837 | <a href="mailto:lko.general@ionexchange.co.in">lko.general@ionexchange.co.in</a> |
| Vadodara      | +91 265 302 7489 / 90        | +91 265 2352 932 | <a href="mailto:brdcro@ionexchange.co.in">brdcro@ionexchange.co.in</a>           |
| Visakhapatnam | +91 891 324 6253             |                  | <a href="mailto:sales.vizag@ionexchange.co.in">sales.vizag@ionexchange.co.in</a> |

Factories: Ankleshwar | Hosur | Patancheru | Rabale | Verna

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[www.ionindia.com](http://www.ionindia.com)