NC 710

Seawater RO Antiscalant

Safety Data Sheet

Product	Document	Use	Manufactured in
NC 710	**Safety Data Sheet**	**Antiscalant / antifoulant for reverse osmosis membranes**	**Umm Al Quwain, UAE**

1 Identification of the product and company

Product	NC 710
Use	Antiscalant / antifoulant for reverse osmosis membranes
Supplier	Novachem Chemical Industries L.L.C. P.O. Box 27304, Umm Al Quwain, United Arab Emirates
Telephone	+971 6 5399379
Email	info@novachemuae.com
Website	www.novachemuae.com

2 Composition / information on ingredients

Chemical name	%	CAS No.	Symbol	R-phrases
Aqueous solution containing:				
Mixture of polyacrylate and phosphonate	10 – 15	–		

The exact chemical identity has been withheld as a trade secret.

3 Hazards identification

Symbol	No hazard label required.
Risk phrases	–
Routes of exposure	Skin contact.
Symptoms of exposure	**Skin contact:** irritation. **Eye contact:** irritation. **In case of inhalation:** nasal and respiratory irritation. **In case of swallowing:** gastrointestinal irritation.

4 First-aid measures

Skin contact	After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing.
Eye contact	Rinse immediately with plenty of water. Keep eyelids apart and seek medical attention.

Ingestion	Rinse mouth.
Inhalation	Move person to fresh air. If breathing is difficult, seek medical attention.

5 Fire-fighting measures

Suitable extinguishing media	No special media required.
Special precautions	Not applicable.
Hazardous decomposition products	CO_2, CO, various hydrocarbons.

See also section 10, Stability and reactivity.

6 Accidental release measures

Protective equipment	See section 8, Exposure controls / personal protection.
Small spills	Small spills and remainder can be absorbed on inert material like sand, earth, vermiculite, etc. Collect the spill in a suitable container. To clean the floor and all objects contaminated by this material, use plenty of water.
Large spills	Dike material to prevent spreading or run-off to open bodies of water. Collect the spill in a suitable container.

7 Handling and storage

Handling	Avoid contact with skin and eyes.
Storage	Keep from freezing. Keep away from strong oxidising materials.

8 Exposure controls / personal protection

Skin	Wear suitable gloves. **Preferred material:** neoprene.
Eyes	Wear eye/face protection. **Preferred type:** close-fitting safety goggles.
Respiratory tract	In case of insufficient ventilation, wear suitable respiratory equipment.
OEL	Polyacrylic acid (modified), sodium salt.

9 Physical and chemical properties

Not to be taken as product specifications.

Appearance	Clear liquid.
Colour	Colourless to yellowish.
Odour	Odourless.
Boiling point	100 °C

Freezing / melting point	-1 °C
Specific gravity	1.15 ± 0.05
Flash point	None.
Auto-ignition temperature	None.
Explosion limits (% vol)	**Lower:** none. **Upper:** none.
Volatile component(s)	Not applicable.
Vapour pressure	As for water: 23 mbar (at 20 °C).
Evaporation rate	Slower than ether.
pH	4.00 – 5.00 ± 0.5
Solubility in water	Complete.

10 Stability and reactivity

Chemical stability	Stable.
Hazardous polymerisation	No polymerisation possible.
Conditions to avoid	None expected.
Materials to avoid	Strong oxidising materials.
Hazardous decomposition products at normal use	Not applicable.

11 Toxicological information

See section 3, Hazards identification.

Acute oral toxicity, LD_{50} (rat)	> 5000 mg/kg (calculated).
Acute dermal toxicity, LD_{50} (rabbit)	No specific test data available.

12 Ecological information

Toxicity to water organisms	No specific test data available.
BOD_5	5800 mg O_2/l
COD	425000 mg O_2/l

13 Disposal considerations

Waste disposal	Contact a certified firm for proper disposal.

14 Transport information

UN number	None.
Road (ADR)	**Class:** none. **Shipping name:** –
Sea (IMDG)	**Class:** none. **EmS:** – **Shipping name:** –
Air (ICAO / IATA-DGR)	The IATA instruction is subject to annual revision. Contact your local supplier.

15 Regulatory information

Labelling requirements	No hazard label required.
Chemical description	Aqueous solution containing various modified polyacrylate.
Risk phrases	None.
Safety phrases	None.

16 Other information

Trade name	NC 710 is a trade name of Novachem Chemical Industries L.L.C.

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