

Uniservice international Uniclean Unigas Unimarine s a f e t y

RO-Osmo Clean-10

Antiscalant/Antifoulant

Material Safety Data Sheet

1: Identification of Product and Company:

Product : RO-Osmo Clean-10 - Antiscalant/Antifoulant

Use : Antiscalant / Antifoulant for Reverse Osmosis Membranes - Max Use:15 mg/L

2: Composition / Information on ingredients:

Aqueous solution containing: CAS# %(w/w)
Neutralized Acrylic Acid-2-Acrylamido-2-Methylpropane Sulfonic Acid Copolymer 40623-75-4 <40

3: Hazards Identification:

Symbol : No hazard label required.

Risk phrases : -

Health Hazards : This material is not expected to produce any significant adverse health effects when

recommended use instructions are followed.

Grossly contaminated clothing : Wash before re-use.

4: First-aid Measures:

Skin Contact : After contact with skin, wash immediately with plenty of water and seek medical

advice.

Eye Contact : In case of contact with eyes, rinse immediately with plenty of water and seek medical

advice.

Ingestion: : Rinse mouth. Give at least two glasses of water to drink (dilution). Do NOT induce

vomiting and obtain medical advice.

Inhalation: : Move person to fresh air. If breathing is difficult, seek medical attention.

5: Fire-fighting Measures:

Extinguishing Media : Water spray, foam, dry chemical, or carbon dioxide.

Exposure hazards : None known.

Combustion products : Nitrogen oxides, carbon monoxide, carbon dioxide, phosphines..

Protective Equipment : Firefighters, and others exposed, wear self-contained breathing apparatus. Equipment

should be thoroughly decontaminated after use.

6: Accidental Release Measures:

Protective equipment : Use personal protection recommended in section 8.

Environmental Precautions : Keep out of drains and water courses.

Methods For Cleaning Up : Contain large spills with dikes and transfer the material to appropriate containers for

reclamation or disposal. Absorb remaining material or small spills with an inert material and then place in a chemical waste container. Flush spill area with water.

7: Handling and Storage:

Handling : Good industrial practice in housekeeping and personal hygiene should be followed

Wash hands thoroughly after handling or contact.

Storage : Protect from frost.

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8: Exposure controls/ Personal protection:

Skin : Wear suitable protective clothing. Wear rubber gloves.

Eves : Wear eye/face protection.

Preferred type: Regular safety glasses.

: In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory tract

: No specific occupational exposure limit has been established. Occupational exposure limit

9: Physical and Chemical Properties (Typical specifications):

Form : Liauid Appearance : Clear Yellow Odor : Slight Freezing/melting : None Specific gravity : 1.0-1.3 Flash point : None рН : <6.5 Solubility in water : Complete

Note: These physical properties are typical values for this product and are subject to change.

10: Stability and Reactivity:

Hazardous Polymerization : Hazardous polymerization does not occur

Conditions To Avoid : None expected

Materials To Avoid : Contact with strong oxidizing agents alkaline solution

Hazardous decomposition : Nitrogen oxides, phosphines, carbon monoxide, carbon dioxide

products

11: Toxicological Information:

This product has been tested for toxicity. The assessment below is based on data obtained on this product and on a related product of similar composition.

Oral : LD50, rat, > 12000 mg/kg, not classified as harmful if swallowed.

Dermal : LD50, rabbit, > 12000 mg/kg, not classified as harmful in contact with skin Eve irritation : rabbit, slightly irritating to eyes but not sufficient for classification. 24 h.

Skin irritation : rabbit, not classified as irritating to skin. 24 h.

Mutagenicity : No genetic effects were observed in standard tests with animal cells.

12: Ecological Information:

Environmental Toxicity

Invertebrates : 48 h EC50 Water flea (Daphnia magna) 800 mg/l. : 96 h LC50 Rainbow trout (Oncorhynchus mycoses). Hazardous Class-Primary-

Fish

800 mg/l 96 h LC50 Bluegill sunfish (Lepomis Algae

macrochirus) > 800 mg/l 96 h EC50 Algae

(Selenastrum

capricornutum) > 42

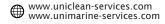
0 mg/l

Algal growth inhibition is due to ability of this product to

complex materials Not to toxicity.

The content of this document as presented herein are believed to be accurate and reliable to the extent known to us. However we do not assume any responsibility for





13: Disposal Considerations:

Waste disposal : Spills and excess chemicals should be treated as chemical waste and disposed of in

accordance with all current special waste regulations. Do not empty into drains.

14: Transport Information:

UN-nr packing group : None

Road/ Rail : Not regulated for transport
Sea : Not regulated for transport
Air : Not regulated for transport

15: Regulatory Information:

Labeling requirements : No hazard label required.

Chemical description : Aqueous solution containing blend of organic.

Risk phrases : None Air : None

Page: 3/3