

# RO-OSMO CLEAN-2

(Acid Cleaner)

Membrane Cleaning Compound Material

Material Safety Data Sheet

## 1: Identification of Product and Company :

Product : RO-OSMO CLEAN-2 (Acid Cleaner)  
Use : Membrane Cleaning Compound

## 2: Composition / Information on ingredients :

Aqueous Solution of Organic Acidic Compounds

## 3: Hazards Identification :

Hazard classification : This product is not classified as dangerous.  
Human health hazards Acute:  
Inhalation : Not likely route of exposure. No adverse effects expected.  
Skin contact : May cause irritation with prolonged contact.  
Eye contact : May cause irritation with prolonged contact.  
Ingestion : Not likely route of exposure. No adverse effects expected.  
Human health hazards chronic : No adverse effects expected other than those mentioned above.

## 4: First-aid Measures :

Inhalation : Move exposed person to fresh air. Treat symptomatically. If symptoms develop, seek medical advice.  
Ingestion : Get medical attention. Do not induce vomiting without medical advice. If conscious, washout mouth and give water to drink. If reflexive vomiting occurs, rinse mouth and repeat administration of water.  
Skin Contact : Flush affected area with water. If symptoms develop, seek medical advice.  
Eye Contact : Flush affected area with water. If symptoms develop, seek medical advice.  
Note to physician : Based on the individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical condition.

## 5: Fire-fighting Measures (Note: See also "Stability and Reactivity")

Extinguishing Media : This product would not be expected to burn unless all the water is boiled away. The remaining organics may be ignitable. Use extinguishing media appropriate for surrounding fire.  
Fire and explosion hazard : May evolve oxides of carbon (COX), under fire conditions. May evolve oxides of nitrogen (NOX), under fire conditions.  
Special protective equipment : In case of fire, wear a full face positive pressure self contained breathing apparatus and protective equipment.

## 6: Accidental Release Measures :

Personal precaution : Restrict access to area as appropriate until clean up operations are complete. Use personal protective equipment recommended in section 8. Stop or reduce any leaks if it is safe to do so. Ventilate spill area if possible.  
Methods for cleaning up  
Small spills : Soak up spill with absorbent material. Place residues in a suitable, covered, properly labeled container. Wash affected area.  
Large spills : Contain liquid using absorbent material, by digging trenches or by diking. Reclaim into recovery or salvage drums or tank trucks for disposal. Clean contaminated surfaces with water or aqueous cleaning agents. Contact an approved waste hauler for disposal of contaminated recovered material. Dispose of material in compliance with regulation.  
Environmental precautions : Do not contaminate surface water.

**7: Handling and Storage :**

Handling	: Do not get in eyes, on skin on clothing. Do not take internally. Use with adequate ventilation. Do not breathe vapors/gases/dust. Keep the containers closed when not in use. Have emergency equipment (for fires, spills, leaks, etc.) readily available.
Storage conditions	: Store in a suitable and labeled container. Keep the container tightly closed.
Suitable construction material	: HDPE (High density polyethylene), Stainless Steel 304, Compatibility with Plastic Materials can vary; we therefore recommend that compatibility is tested prior to use. Stainless Steel 316L, Neoprene, Buna-N, Hypalon, EPDM, Polyethylene, Polypropylene, PVC, 100% phenolic resin liner.
Unsuitable construction material	: Mild steel, Viton, Polyurethane, Epoxy phenolic resin, Bras.
Specific use(s)	: Reverse Osmosis Cleaner.

**8: Exposure controls/ Personal protection :**

Hand protection	: Recommended: PVC Gloves.
Eye protection	: Safety goggles with side shields.
Hygiene recommendation	: Use good work and personal hygiene practices to avoid exposure. Consider the provision in the work area of a safety shower and eyewash. Always wash thoroughly after handling chemicals. When handling this product never eat, drink or smoke.

**9: Physical and Chemical Properties (Typical specifications) :**

Appearance	: Liquid
Color	: Clear Faint Yellow
Odor	: Slight
Specific gravity	: 1.1-1.3
Flash point	: Not applicable
pH	: 2.2-4.8
Solubility in water	: Complete

**10: Stability and Reactivity:**

Stability	: Stable under normal condition.
Hazardous polymerization	: Hazardous polymerization will not occur.
Conditions to avoid	: Extremes of temperature.
Materials to avoid	: Contact with strong oxidizers may generate heat, fire, and/or toxic vapors, and Alkalis.
Hazardous decomposition products- Under fire conditions	: Oxides of carbon, Oxides of nitrogen.

**11: Toxicological Information:**

No toxicity studies have been

Sensitization	: This product is not expected to be sensitizer.
Carcinogenicity	: None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC).

**12: Disposal Considerations:**

Methods of disposal	: Disposal of this product, solutions and any by products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
---------------------	--

**13: Transport Information:**

Land - road/railway (ADR/RID Classification)	Not classified as dangerous
Sea (IMO/IMDG Classification)	Not classified as dangerous