

RO-OSMO CLEAN-3

(Alkaline Cleaner)

Material Safety Data Sheet

1: Identification of Product and Company :

Product : RO-OSMO CLEAN-3 (Alkaline Cleaner)
 Use : Membrane Cleaning Chemical

2: Composition / Information on ingredients :

Aqueous solution containing:	CAS#	%(w/w)
Tetrasodium Salt of Ethylene Diaminetetra acetic acid, neutralized	64-02-08	<50
Diethylene Triamine Penta (Methylene Phosphonic Acid)	15827-7-8	<15

3: Hazards Identification :

Classification : IRRITANT
 Risk phrases : R36/38- Irritating to eyes and skin

4: First-aid Measures :

Skin Contact: : In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention.

Eye Contact: : Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

Ingestion: : Rinse mouth. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if symptoms occur. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately.

Inhalation: : Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth to mouth resuscitation. Get medical attention symptoms occur. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

5: Fire-fighting Measures : (Note: See also “Stability and Reactivity”)

Extinguishing Media Suitable : Use an extinguishing agent suitable for the surrounding fire.
Not suitable exposure hazards : None known. Special.
Thermal decomposition products : No specific hazard.
Protection of firefighters : These products are carbon oxides (CO,CO2) and water, nitrogen oxides (NO,NO2 etc.), sulfur oxides (SO,SO2, SO3 etc.), phosphates. Some metallic oxides.
 : Firefighters should wear positive pressure self contained breathing apparatus (SCBA) and full turnout gear.

6: Accidental Release Measures :

Personal precautions	: Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.
Environmental precaution	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Methods for cleaning up	: If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid proof container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a water way. Place spilled material in an appropriate container for disposal.

7: Handling and Storage :

Handling	: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Storage	: Keep containers tightly closed. Keep container in a cool, well-ventilated area. Do not store below 00 C (320 F).

8: Exposure controls/ Personal protection :

Exposure limit values	: Not available. Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking and using lavatory and at the end of the day.
Hand protection	: Recommended: PVC, neoprene.
Skin	: Lab coat
Respiratory protection	: Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
Eye Protection	: Splash goggles.
Note	: EC-ROC-6 is categorized under "Miscellaneous Water Supply Products" Membrane Cleaner. This product is designed to be used off-line and flushed out prior to using the system for drinking water.

9: Physical and Chemical Properties (Typical specifications) :

Appearance	: Hazy/Clear Liquid
Color	: Yellow/Amber
Odor	: Slight
Specific gravity	: 1.0-1.3
Flash point	: None
pH	: > 10.0
Solubility in water	: Complete

10: Stability and Reactivity:

Stability:	: The product is stable.
Conditions to avoid:	: Not available.
Materials To Avoid:	: Reactive or incompatible with the following materials: oxidizing materials and acids. : Thermal decomposition products: These products are carbon oxides (CO,CO2) and water, nitrogen oxides (NO,NO2 etc.), sulfur oxides (SO,SO2, SO3 etc.), phosphates. Some metallic oxides.

11: Toxicological Information:

Acute toxicity:	
Oral:	: NA
Dermal:	: NA
Inhalation: Skin	: NA
irritation:	: The results of testing on rabbits showed this material to be non-irritating to the skin.

12: Ecological Information :

Biodegradation : NA
Bioaccumulation : NA
Ecotoxicological Effects : NA

13: Disposal Considerations:

Methods of disposal: : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product , solutions and by products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

14: Transport Information :

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

15: Regulatory Information :

S226 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37/39 : Wear suitable gloves and eye/face protection.