

TECHNICAL BULLETIN



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MEM CLEAN AL1

UF, NF and RO Membrane Alkaline Detergent

MATERIAL & FUNCTION

MEM CLEAN AL1 is a high strength blended alkali solution designed for cleaning membrane plants processing milk based products.

MEM CLEAN AL1 contains a special blend of complexing agents and a surfactant system that rapidly emulsifies and sequesters soils containing whey precipitates, milk proteins and fats.

The synergistic effect of this unique formulation provides superior detergency and improved cleaning results.

USES

Cleaning of Ultrafiltration, Nano filtration and Reverse Osmosis membranes in dairy and food processing plants.

Benefits:

lower use concentrations

increased detergency

dissolves soils quickly

balanced formulation eliminates the use of separate builders.

compatible with chlorine

free rinsing and biodegradable

superior cleaning performance

APPLICATION

Plant CIP Cleaning

MEM CLEAN AL1 will be used as part of CIP regime in conjunction with other acid or enzyme based formulations

MEM CLEAN AL1 is used at concentrations between 0.1 – 0.4% v/v (0.1 – 0.4L per 100L water). Typical pH target is 10.5 – 11.0 at 50°C. Higher pH values can be used on some membrane types

GENERAL DATA

Appearance: clear liquid

Specific Gravity: 1.34

Freezing Point: <0°C

pH of 1% v/v solution: 12.6

Classification: Dangerous Goods Regulations: Class 8; IMO: Class 8 Corrosive; UN No.:1719
HAZCHEM: 2R

Storage Requirements:

MEM CLEAN AL1 may be stored in mild steel, stainless steel, PVC, polypropylene or polyethylene

containers. Zinc (including galvanising), tin and aluminium are rapidly attacked by **MEM CLEAN AL1**. Storage tanks should be bunded to contain the entire contents in case of leaks or spills.

Handling Precautions:

Do not allow **MEM CLEAN AL1** to come in contact with skin or eyes.

Full protective clothing, including face shields and PVC gloves, should be worn when handling **MEM CLEAN AL1**.

Do not store or mix **MEM CLEAN AL1** with acids, aluminium, tin or zinc.

An adequate supply of water must be available in storage and handling areas.

Safety showers and eye wash facilities are strongly recommended.

FIRST AID

Caution: **MEM CLEAN AL1** contains caustic potash and is corrosive to body tissue.

External: IMMEDIATELY flush affected areas with large quantities of water. This may be followed by a rinse with dilute vinegar or citric acid solution. Ensure all contaminated clothing is removed and washed thoroughly.

Internal: Acute emergency. Drink large volumes of milk or water. DO NOT induce vomiting. SEEK MEDICAL ATTENTION IMMEDIATELY.

Eyes: IMMEDIATELY wash with a gentle stream of water for at least 15 minutes. SEEK MEDICAL ATTENTION.

PACKAGING: Availability: 200 litre drum

IMPORTANT NOTICE TO CUSTOMER

Please consult your Environex representative for specialist advice and recommended cleaning regimes for your plants specific cleaning requirements.

Please note that all cleaning must be carried out in accordance with the membrane manufacturer's guidelines, recommended limits of pH, temperature and pressure should not be exceeded.

*Since the use of this product is beyond the control of either seller or manufacturer, their only obligation shall be to replace any quantity of product, which is proven defective. They cannot assume any risk or liability in excess of the purchase price of the product itself, which does not include labour or any consequential damages resulting from the use of this product. Determining the suitability of this product for any intended use shall be solely the responsibility of the user. **ALWAYS TEST FIRST.***