



## PRODUCT DATA

### AES-MS-120 THERMAL DESALINATION ANTISCALANT



#### DESCRIPTION AND USE

AES-MS-120 is formulated to inhibit inorganic scale formation in seawater evaporators. This advanced concentrated inhibitor has the following features.

- Highly effective against Calcium Sulfate and Calcium Carbonate deposits
- Dispersion and distortion of scale forming salts crystals
- Maintain super-saturated solution of scale forming salts without precipitation
- **AES-MS-120 is certified by NSF to NSF/ ANSI Standard 60 for use in Desalination Plants producing Drinking water.**

#### CHEMICAL FEEDING AND CONTROL

AES-MS-120 is normally fed continuously and proportionately to the flow of seawater entering the plant. Dosage rate is dependent on such factors as quality of seawater feed, maximum brine temperature, fouling allowance, and desired cleaning frequency. The specific control ranges will be specified by the technical representative who can also assist you in determining the appropriate dosage rate for your system.

#### TYPICAL PROPERTIES

Appearance: Colorless or Yellow To Amber Liquid  
Stability: Excellent  
Solubility: Completely soluble  
pH (Undiluted): 1-3  
Specific gravity: 1.10-1.28

#### SAFETY AND HANDLING

Do not take internally. If ingested, drink at least two glasses of water and get medical attention. Contact with eyes causes severe irritation or burns. If eyes are contacted, immediately flush with clear water for 15 minutes and then get medical attention. For skin contact, wash with soap and water. For additional information, the material safety data sheet is available on request.

#### PACKAGING

AES-MS-120 is packaged in 200 and 25 liter (nominal volume) non-returnable plastic drums.

# AES TREATMENT PROGRAMS & SERVICES

## Cooling Water Treatment Programs

Corrosion Inhibitors  
Antiscalants & Antifoulants  
Biocides  
Antifoams

## Boiler Water Treatment Programs

Oxygen Scavengers  
Corrosion Inhibitors ( Pre-Boiler, Boiler and After  
Boiler)  
Deposit Inhibitors ( Sludge Conditioners)  
Antifoams  
Alkalinity Builders

## Potable Water Treatment Programs

Corrosion Inhibitors  
Deposit/ Scale Inhibitors  
Disinfectants

## Fuel Treatment (Solid & Liquid)

Deposit/ Corrosion Inhibitors  
Combustion Catalysts

## Coagulants & Flocculants

Organic & Inorganic

## Odor Control Programs

Masking Agents  
Reactive Odor Control  
Enzymes

## Hard Surface Cleaners

General Purpose Cleaners  
Descalers  
Neutralizers

## Brewery & Bottling Plants

Pasteurizers  
Bottle Washers  
Conveyer Chain Lubricants

## Metal Treatment Chemicals

Cutting Lubricants  
Degreasers  
Passivators  
Phosphatizing Chemicals  
Electroplating Chemicals

## R.O. Water Treatment

Scale Inhibitors  
Membrane Cleaning Chemicals  
ANSI/ NSF Approved Antiscalants

## Thermal Desalination Treatment

Scale and Corrosion Inhibitors  
Antifoams  
Descalers

## Steam & Condensate Programs

Corrosion Control  
USDA/ FDA Approved Additives

## Raw Water & Wastewater Programs

Coagulants	Odor control
Flocculants	Enzymes
Disinfectants	Bacterial Spores
Antifoams	Emulsion Breakers

## Process Treatment Programs

Specialty Chemical Additives

## Commercial Laundry Chemicals

Built Detergents  
Emulsifiers  
Fabric Softeners  
Peroxide Bleach  
Chlorine Bleach  
Scoring Agents

## Services

Technical & Engineering Consultations  
Analytical Services  
Ion Exchange Resins Evaluation  
Reverse Osmosis Cleaning

## Equipment Supply

Water & Wastewater Treatment Plants  
Filters, Pumps  
Tanks  
Chemical Feed Systems  
PH Controllers  
Blow down Controllers  
Automatic Control Systems  
SCADA



Manufactured in the Kingdom of Saudi Arabia by :

## **AES ARABIA LTD**

Environmental & Process Engineering

P.O. Box 105689, Riyadh 11656, Kingdom of Saudi Arabia

Phone: 966 11 4772398 Fax: 966 11 4785456

e-mail: [info@aesarabia.com](mailto:info@aesarabia.com)

[www.aesarabia.com](http://www.aesarabia.com)