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## PRODUCT DATA

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### AES-A-319 COOLING WATER MICROBIOCIDE

#### **DESCRIPTION AND USE**

AES-A-319 is a highly concentrated aldehyde based microbiocide for use in air washers, recirculating water cooling systems including pasteurizer cooling water systems, resort water systems, and industrial closed, recirculating process water systems. The product is effective over a wide pH range of 6.0 - 9.5 against slime forming bacteria; sulfate reducing bacteria, and algae. The product functions to kill these microorganisms by reacting with the cell wall. Thus it possesses many unique features when compared to other materials.

-Very effective over a broad spectrum of organisms.

-Aqueous solution is relatively safe to handle and is easily diluted and mixed when treating water.

-Unlike most non-oxidizing microbiocides, it will function to clean up a biologically fouled system.

-Functions over a wide pH range and most rapidly at pH 8.5 - 9.5. Will NOT react with the wide range of inhibitors and anionic dispersants used in modern cooling water treatment.

-It is non-surface active and will therefore not cause objectionable foaming in treated systems.

#### **CHEMICAL FEEDING AND CONTROL**

When a system is noticeably fouled, AES-A-319 should be slug dosed to establish concentration of 200-400 ppm active in the recirculating water. Once control is evident, a dosage of 80-200 ppm active twice a week will normally maintain control unless unusual conditions develop.

#### **TYPICAL PROPERTIES**

Appearance: Clear Colourless liquid

Odor: Sharp, Pungent

Specific Gravity: 1.02 – 1.05

pH (@ 25 deg C.): 3.0 – 5.0

Flash Point: Non-flammable

Freeze Point: -17°C (1.4°F)

(All values approximate)

#### **SAFETY AND HANDLING**

AES-A-319 may be toxic by ingestion. May cause severe irritation or chemical burns of mouth, throat esophagus and stomach. Do not induce vomiting. Do not give anything to drink. GET IMMEDIATE MEDICAL ATTENTION. Contact with eyes causes severe irritation or burns and irreversible eye damage. If eyes are contacted, immediately flush with clear water for 15 minutes and get medical attention. Vapor is irritating to respiratory tract. If skin is contacted, immediately wash with soap and water. Change and launder contaminated clothing before reuse. The use of goggles or face shield and rubber gloves when handling this product is recommended. For more information, consult the Material Safety Data Sheet provided with this product.

#### **PACKAGING**

AES-A-319 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)