



PRODUCT DATA

AES-A-316 COOLING WATER MICROBIOCIDE

DESCRIPTION AND USE

AES-A-316 is a quaternary ammonium chloride based biocide for use in recirculating cooling water systems. The product is effective over a wide pH range against algae, fungi, and slime forming bacteria typically found in these systems.

Unlike most similar products, it is an exceptional wetting agent and, at normal use concentrations, it will cause only minimal foaming in the treated systems. It is compatible with most water treatment formulations including chlorine but should not be directly mixed with soap, sulfated oils or anionic surfactants.

CHEMICAL FEEDING AND CONTROL

AES-A-316 is normally shot fed to the system to be treated based on volume, the treatment frequency will be as required to maintain control. Often, alternating the material with another type of microbiocide, either oxidizing or non-oxidizing will enhance the performance of both materials. The product should be added to the system at a point where rapid mixing will occur.

TYPICAL PROPERTIES

Appearance: Clear light yellow liquid
Odor: Mild characteristic
Specific Gravity: 0.98 - 1.03
pH: 4.0 -9.0
Solubility: Soluble in water at all proportions
(All values approximate)

SAFETY AND HANDLING

DO NOT TAKE INTERNALLY. If ingested, drink several glasses of milk, egg whites, gelatin solution or water. Do NOT induce vomiting. GET IMMEDIATE MEDICAL ATTENTION. Contact with eyes causes irritation. If eyes are contacted, immediately flush with clear water for 15 minutes and if irritation persists, get medical attention. 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, the Material Safety Data Sheet is available on request.

PACKAGING

AES-A-316 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 :

The logo for AES, featuring the letters 'AES' in a bold, italicized, red font with a white outline.

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