



PRODUCT DATA

AES-A-313 COOLING WATER MICROBIOCIDE

DESCRIPTION AND USE

AES-A-313 is a broad-spectrum microbiocide to control the growth of algae, bacteria and slime in both open and closed recirculating cooling water systems. AES-A-313 is suited for a wide variety of applications including microbial control in metalworking fluids and pulp and paper process waters. Some of the benefits of AES-A-313 compared to other materials include:

- Very effective against a broad spectrum of organisms including troublesome sulfate reducing bacteria.
- Unlike most non-oxidizing microbiocides, it will function to clean up a biologically fouled system.
- Functions over a wide pH range.

CHEMICAL FEEDING AND CONTROL

AES-A-313 treatment program is highly dependent upon the degree of microbiological contamination present in the system.

AES-A-313 may be shock fed or metered semi-continuously by a pump and timer control apparatus. Specific treatment ranges and control methods employed must be specified by the technical representative servicing the facility.

TYPICAL PROPERTIES

Appearance: Clear Colorless Liquid
Odor: Mild Characteristic
Specific gravity: 1.01 - 1.05
pH (undiluted): 9.0 - 12.0
Freeze Point: 0°C (32°F)
(All values approximate)

SAFETY AND HANDLING

DO NOT TAKE INTERNALLY. If ingested, have victim drink several glasses of water and induce vomiting. **GET IMMEDIATE MEDICAL ATTENTION.** Contact with eyes may cause irritation. If eyes are contacted, immediately flush with clear water for 15 minutes. Avoid skin contact, wash with soap and water. The use of goggles or face shield and rubber gloves when handling this product is recommended. For additional information, the Material Safety Data Sheet is available on request.

PACKAGING

AES-A-313 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, consisting of the letters 'AES' in a bold, italicized, red font with a white outline.

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