



PRODUCT DATA

AES-A-320 COOLING WATER MICROBIOCIDE

DESCRIPTION AND USE

AES-A-320 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-320 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: 1.00 – 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-320 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-320 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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