



**AES ARABIA LTD**

Environmental & Process Engineering



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## **PRODUCT DATA**

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### **AES-A-429 SURFACTANT FOR BOILER CLEANING**

#### **DESCRIPTION AND USE**

AES-A-429 is a highly concentrated blend of alkaline cleaners, chelating agents and scale inhibitors designed specifically for the cleaning of industrial boilers and certain other water systems. The product is formulated to remove both organic and inorganic deposits and to precondition the exposed metal surfaces to minimize flash rusting prior to startup of the program subsequently supplied. This product is not effective for hardness scale (calcium carbonate, etc.,) removal, which generally requires an acid medium. It is effective for typical mill scales and the light oils and greases found on new equipment and in equipment, which has been contaminated by hydrocarbon leaks.

#### **APPLICATION AND TREATMENT REQUIREMENTS**

AES-A-429 is normally applied at the rate of 1 - 2% in the boiler for the boil out procedures. The product is usually pumped into the boiler through one of the vents while the unit is being filled with water. The manufacturer's procedure for boil out should then be followed. For use in the cleaning of other equipment, follow the instructions provided by the technical service representative servicing the facility.

#### **TYPICAL PROPERTIES**

Appearance: Clear Colorless to pale Yellow Liquid  
Odor: Characteristic  
Flash Point: None  
Specific gravity: 1.18 - 1.22  
pH: >12.0  
Freeze Point: 0°C(32 °F)  
(All values approximate)

#### **SAFETY AND HANDLING**

AES-A-429 may be toxic by ingestion and because of its high causticity, is corrosive to human tissues. Do not take internally. If ingested, drink at least two (2) glasses of water and GET IMMEDIATE MEDICAL ATTENTION. Do not induce vomiting. Contact with eyes causes severe irritation or burns. If eyes are contacted, immediately flush with clear water for 15 minutes and get medical attention. For skin contact, wash with soap and water. For additional information, see the Material Safety Data Sheet (MSDS) provided with this product.

#### **PACKAGING**

AES-A-429 is packaged in 200 and 25 liter (nominal volume) 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**

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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)