

ATLANTIC WATER TECHNOLOGY LTD

PRODUCT INFORMATION

A-101

A-101

GENERAL

DESCRIPTION: A-101 is a caustic soda based product designed to increase alkalinity in water systems.

USES: As an additive to steam boilers to improve precipitation of hardness salts and give an anti-corrosive environment. A-101 is also suitable for addition to open and closed cooling circuits to increase pH and reduce the corrosion potential of the water.

COMPATIBILITY: A-101 is compatible with system components at the recommended circuit levels. Care should be taken and good testing and control measures implemented where systems contain zinc, copper and aluminium components. Water of high pH will be aggressive to these.

APPLICATION

DATA: A-101 is applied to low pressure steam boilers (up to 25 bar) to maintain a caustic alkalinity of 250-350 ppm (mg/l) expressed as CaCO₃.

With medium pressure boilers lower caustic alkalinity is required for optimum boiler water conditions. With high pressure boilers caustic alkalinities should be controlled at very low levels in the order of 2-10 ppm (mg/l) as CaCO₃ depending on boiler pressure.

Local engineers will advise accordingly.

A-101 should ideally be dosed directly to the boiler drum by means of a pressure dosage vessel or suitable chemical injection pump.

TECHNICAL

DATA:

appearance	:	colorless liquid
specific gravity	:	1.50 ± 0.01
pH as supplied	:	> 9.5
flash point	:	non-flammable

PACKAGING: 25 and 200 litre containers

TRANSPORTATION: Class 8 (corrosive)

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HEALTH & SAFETY INFORMATION

A-101 (concentrate as supplied)

POTENTIAL HAZARDS: Causes severe burns. Particularly harmful to eyes, skin and mucous membranes.

HANDLING & STORAGE: Keep out of reach of children.
Avoid contact with skin and eyes.
Avoid extreme of temperatures.
Store away from acids.
Replace cap securely after use.
Recommended storage limit - 2 years.

PROTECTIVE EQUIPMENT: Wear protective overalls, rubber gloves and eye/face protection.

SPILL PROCEDURES: Small spills: flush to drain with plenty of water.
Large spills: absorb on dry powder or earth and dispose of as hazardous waste. Do not discharge directly into rivers or water courses. Observe local disposal regulations.

FIRST AID: EYES : Rinse immediately with plenty of water for at least 10 minutes and seek medical advice.

SKIN : Rinse immediately any contaminated clothing. Rinse affected areas immediately with plenty of water. Treat as a chemical burn. Failure to treat even small areas immediately may result in an irritant dermatitis. Contaminated clothing should be laundered before re-use.

INGESTION : Wash out mouth thoroughly and drink plenty of water. Do not induce vomiting. Seek medical advice immediately.

OTHER INFORMATION: At the recommended in-use concentration A-101 is non-hazardous.