

ADENA 3322 is a concentrated dual neutralizing amine blend for steam boilers up to 1000 psi. It is used to neutralize carbonic acid in steam and condensate return lines, decreasing the potential for corrosion. **ADENA 3322** can be used in conjunction with **ADENA 4100**.

ADVANTAGES:

ADENA 3322 will neutralize carbonic acid formed in the condensate lines due to absorption of CO₂ present in the steam. Most feed waters for steam boilers will contain carbonate or bicarbonate, naturally occurring impurities. Under heat and pressure these compounds will break down and release carbon dioxide as an end product. When carbon dioxide dissolves in the hot condensate in the steam lines it will create corrosive carbonic acid.

ADENA 3322 is a high pH compound that works to neutralize carbonic acid by volatilizing into the steam lines with the steam and condensing out with the condensate to raise the pH of the condensate, effectively neutralizing any carbonic acid. **ADENA 3322** is a blend of two amines; a long carrying amine (with a high distribution ratio) and a short carrying amine (with a low distribution ratio) used with short, medium and long steam line lengths. It is very effective when used with a volatile oxygen scavenger such as **ADENA 4100**.



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ADENA 3322

UN3267, Corrosive liquid, basic, organic, n.o.s.,
(cyclohexylamine, morpholine), 8, PG III

DIRECTIONS:

ADENA 3322 should be fed continuously to the boiler feed water, boiler or steam lines using a chemical injection pump. It should be feed in a manner to maintain a pH of the condensate return between 7.8 to 8.3. Dosage rates will vary according to how much carbonate compounds or carbon dioxide is introduced to the boiler with the feed water. The higher the carbonate in the feed water, the higher the dosage of **ADENA 3322**.

Add **ADENA 3322** at a ratio of 10 to 150 ppm to according to the feed water flow rates. Adjust dosage to maintain a pH of the condensate return between 7.8 and 8.3. Check these levels regularly. **ADENA 3322** should be used in conjunction with a scale inhibitor product and an oxygen scavenger.

CAUTION:

Do not take internally. Avoid contact with skin and eyes. Should contact occur, flush immediately with water. Avoid excessive breathing of vapors. If any discomfort persists, seek medical attention. Read relevant Material Safety Data Sheet before handling this product.

KEEP OUT OF REACH OF CHILDREN

Container Disposal: Triple rinse container and discard according to local regulations.

