

## **TECHNICAL DATA SHEET**

### **ADENA 3378**

#### **Product #AD3378**

### **STEAM & CONDENSATE LINE CORROSION INHIBITOR**

#### **DESCRIPTION:**

**ADENA 3378** is a dual neutralizing amine steam and condensate line corrosion inhibitor. It is a blend of short and long-carrying amines designed specifically for protection of complex and extensive steam and condensate piping systems. **ADENA 3378** is designed to be used in any type of steam boiler system.

#### **ADVANTAGES:**

**ADENA 3378** is a triple amine system which is highly effective in its ability to neutralize corrosive carbonic acid formed in the after-boiler piping systems. **ADENA 3378** can be used in all types of steam boilers, with any materials of construction in the steam and condensate lines, and heat exchangers. It is very efficient at preventing low pH corrosion, or if corrosion has already occurred, removing the corrosion products, effectively cleaning the system.

#### **USDA**

**ADENA 3378** contains components that are acceptable for treating boiler or steam lines where the steam produced may contact edible products and/or cooling systems where the treated water may not contact edible products in official establishments operating under the Federal meat, poultry, shell egg grading, and egg products inspection programs. This product is not approved for use where steam contacts milk or milk products. Product feed rate to the steam cannot exceed 25 ppm product for conformance to 21CFR173.310 regulation.

#### **DIRECTIONS:**

**ADENA 3378** should be fed to the steam header, boiler drum or feedwater line by means of a chemical metering pump. It can be fed from the shipping container, or a chemical mixing tank where it may be mixed with a boiler scale and corrosion inhibitor, dispersant, alkalinity adjunct, and oxygen scavenger. These products can also be fed separately from their shipping container by means of a separate chemical metering pump. Control the product feed rate by maintaining the condensate return pH in a range of 7.5-9.2.

#### **DANGER:**

**ADENA 3378** contains cyclohexylamine and morpholine and is corrosive and flammable. Use only in well ventilated areas. Do not use near heat, sparks, open flame or other sources of ignition. Do not smoke in use areas. This product is corrosive to the skin and eyes. Avoid contact with the skin and eyes. If eye contact occurs, flush with water for 15 minutes. If irritation persists, consult a physician. If skin contact occurs, remove contaminated clothing. Wash off and rinse thoroughly with clear water. If irritation persists, consult a physician. Harmful or fatal if swallowed. If swallowed, do not induce vomiting. Consult a physician immediately. Avoid contamination of feed and foodstuffs. Apply this product only as specified.

#### **KEEP OUT OF REACH OF CHILDREN.**

Container Disposal: When container is completely empty, triple rinse before discarding to prevent accidental burns. Puncture container and discard according to local regulations.

CAS Numbers: Water 7732-18-5, Morpholine 110-91-8, Cyclohexylamine 108-91-8

**Packaging:** ADENA 3378 is packaged in 55, 35, 30, 15, and 5 gallon non-returnable drums.



**A Division of:** General Products & Supply Inc.

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