

BOILER AMINE-399

SIMPLICITY LIQUID ULTRA-CONCENTRATED CONDENSATE/STEAM LINE TREATMENT



PRODUCT APPLICATION GUIDE

BOILER AMINE-399 an Ultra-Concentrate liquid blend of volatile Neutralizing Amines & Volatile Alcohol for control of corrosion in variable length steam line condensate applications.

BOILER AMINE-399 distribution ratios of the combination Neutralizing Amines & Volatile Alcohol will provide protection for both short and longer runs of steam line condensate piping system

BOILER AMINE-399 will retard the corrosive effects of carbon dioxide and other acidic formations in the steam lines.

BOILER AMINE-399 is formulated for boiler applications operating at 600 psi or less.

BOILER AMINE-399 cannot be used in any kind of dairy/milk/cheese applications or applications governed by FDA/USDA.

BOILER AMINE-399 can be fed to the feed water tank, directly into the boiler or to the steam header.

BOILER AMINE-399 should be employed as part of a tripartite program utilizing materials such as Boiler AID-386 and **BOILER DEOXY-372**.

BOILER AMINE-399 is compatible in boiler water with any of the other steam line, oxygen scavenging, boiler treatments or dispersing products found in the general marketplace.

BOILER AMINE-399 eliminates the chemical handling nuisance, problems and exposure to corrosive chemical powders or liquids. **BOILER AMINE-399** eliminates the handling nuisance encountered with handling the irritating and potentially corrosive amine fumes. For individuals who may be sensitized and reactive to amine compounds in general, **BOILER AMINE-399** relieves the issue since they never come in contact with the material.

Application & Control

- **BOILER AMINE-399** feed rate is based on the amount of "M" Alkalinity in the feed water as well as the Dissolved Oxygen, Carbon Dioxide and Iron found in the condensate system.
- Generally, **BOILER AMINE-399** feed rates are 1.0 ppm for every 2.50 ppm of "M" Alkalinity in the feed water. The 2.50 ppm feed rate will provide neutralization of the free acid formed by the "M" Alkalinity breakdown to Carbon Dioxide. For example, a feed water containing 60 ppm of "M" Alkalinity requires 24 ppm or 1 pint per 5,000 gallons of feed water.
- Condensate pH control limits should be established in the 7.0-8.5 range using a colorimetric comparator (Phenol Red or Cresol Red) system.

PHYSICAL PROPERTIES:

Color/Form: Clear/Amber Liquid
 Odor: Characteristic
 Density: 1.00+/-
 pH of 1% Solution = 12+
 Freeze Point: <32F+/-
 Freeze/Thaw: Full Recovery

GHS CODE: Corrosive



DOT Class:

NON REGULATED

3 HEALTH

0 FLAMMABILITY

1 REACTIVITY

C PERSONAL PROTECTION

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