



# AmSolv<sup>®</sup>

Total Water Management

## AmGuard 4350<sup>™</sup>

Industrial Water Treatment Compound  
Boiler Water Scale Inhibitor

**DESCRIPTION:** AmGuard 4350<sup>™</sup> is a concentrated “combination cycle” scale inhibitor treatment system for steam boilers. It is designed to provide protection from scaling in all types of steam boilers operating at pressures up to 850 psig where feedwater hardness is low to high.

**ADVANTAGES:** AmGuard 4350<sup>™</sup> is a proprietary “combination cycle” scale inhibitor for boilers. It is very effective in controlling boiler scaling and fouling. It can also provide “on line” clean up of carbonate scale, iron and other mineral deposits in the boiler drum, tubes and heat exchanger surfaces. AmGuard 4350<sup>™</sup> is a special blend of organics, dispersant, polymers and crystal modifiers. With proper usage, it will inhibit scale formation by chelating undesirable metal ions such as calcium, magnesium, iron and copper, preventing their deposition. It offers much greater flexibility in application and dosage when compared to a typical chelant cycle treatment program.

**USDA:** AmGuard 4350<sup>™</sup> is acceptable for treating boilers or steam lines where the steam produce 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.

**DIRECTIONS: NOTE:** When using this product, PROTECT FACE (especially the eyes) by using a full face shield or cup-type chemical goggles, AND other portions of the body by using rubber gloves, rubber boots, and a rubber apron. Use only in a well ventilated area. Avoid breathing spray mists or vapors..

AmGuard 4350<sup>™</sup> should be used with separate oxygen scavengers, corrosion inhibitors and condensate line corrosion control treatment. It should be fed to the boiler drum or feedwater line directly from the shipping container by means of a metering chemical injection pump. Specific dosages will vary depending upon feed water quality. Normal dosage rates will range from 300 to 500 ppm of boiler water blowdown volume in properly operating systems. Control the product by maintaining 5 to 10 ppm of phosphonate and OH Alkalinity levels of 250-400 ppm.

**POISON!** Contains Potassium Hydroxide. Causes severe burns. Avoid contact with skin, eyes, mucous membranes and clothing. Follow protection measure specified under DIRECTIONS. In case of skin contact, remove contaminated clothing. Flush immediately with water for 15 minutes then with vinegar. Call physician immediately. In case of eye contact, flush immediately with water for 15 minutes while holding lids apart. Call physician immediately. May be fatal if swallowed. If swallowed, do not induce vomiting. Drink large quantities of water followed by citrus juice. Call physician immediately. Keep container tightly closed when not in use. **Note:** Do not use this product with any other type of chemical. Do not mix with other chemicals. 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; Potassium Hydroxide 1310-58-3; Phosphonate 6419-19-8; NJ Trade Secret #800944-5009P & #800944-5010P

**HMS RATING:** : Health-3 Flammability-0 Reactivity-0; Personal Protection-B.

**DOT:** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., 8 UN:3266

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