



AmSolv[®]

Total Water Management

AmGuard[™] 4450

Industrial Water Treatment Compound
Boiler Water Scale Inhibitor

DESCRIPTION: AmGuard[™] 4450 is a concentrated "chelant 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 moderate.

ADVANTAGES: AmGuard[™] 4450 is a proprietary "chelant 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[™] 4450 is a special blend of EDTA (ethylenediaminetetraacetic acid), organic dispersants, polymers and crystal modifiers. With proper usage, it will inhibit scale formation by chelating and sequestering undesirable metal ions such as calcium, magnesium, iron and copper, preventing their deposition. It offers greater flexibility in application and dosage when compared to a typical phosphate cycle treatment program.

DIRECTIONS: When using this product, PROTECT FACE (especially eyes) by using full face shield or cup-type chemical goggles, AND OTHER PORTIONS OF BODY by using rubber gloves, rubber boots and rubber aprons. Use with adequate ventilation. AmGuard[™] 4450 should be used with separate oxygen scavengers, corrosion inhibitors and condensate line corrosion control treatment. It should be fed directly to the boiler drum or feedwater line (after the feedwater pump and check valves) 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 20 to 70 ppm of boiler feedwater volume in properly operating systems. Control the product by maintaining 2 to 5 ppm free EDTA and 250 to 400 ppm OH alkalinity.

POISON! Contains Sodium 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.

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CAS NUMBERS: Water 7732-18-5; Ethylenediamine Tetraacetic Salt 64-02-8; Sodium Hydroxide 1310-73-2; Sodium Polyacrylate Solution 9003-01-4.

HMIS RATING: Health-3 Flammability-0 Reactivity-0; Personal Protection-C.

DOT:

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WB-4450

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