

## PRODUCT DESCRIPTION

Scrubber Additive SA2 prevents scrubber reemission of mercury and provides heavy metals remediation as part of the ME<sub>2</sub>C® “**Total Mercury Control**” Program. This sulfur-based reagent quickly precipitates dissolved mercury from the absorber solution efficiently preventing reemission (*up to 99% Hg precipitation*).



SA2 is available in tank truck quantities for bulk storage (as shown above) and in 265-gal totes.

## BENEFITS

- Low dosage rates: ~1-4 gallons/hour
- Provides multiple bonding sites that tightly secure Hg molecules
- Large formation of polysulfide particles which are easily removed with absorber solids
- Gypsum quality maintained
- Additional soluble ionic metals captured include: Lead, Copper, Thallium, Cobalt, Cadmium, Nickel, Zinc, Iron, Silver, Tin
- Lowers effluent metals, aids in addressing TCLP requirements
- Application equipment is simple to operate, low cost and easily maintained

## PROPERTIES

- Aqueous solution (sodium polythiocarbonate): 28%
- Chemical formula: CS<sub>5</sub>Na
- Non-corrosive, non-hazardous
- Freeze point: 30°F
- Boiling Point: 212°F

## APPLICATION

- Coal-fired plants equipped with wet scrubbers for SO<sub>2</sub> control
- Mercury in flue gas must be highly oxidized, over 90% (*See “Related Products” for Hg oxidation*).
- SA2 can be added directly to scrubber slurry at multiple locations
- Desired Operational Control Ranges:
  - ORP: 200-300 mV
  - Sulfite Level: 1% of solution
  - Chloride/Halogens: ~5,000+ ppm
  - Low-load Scrubber Operation: Ability to control oxidation air (SO<sub>2</sub>/O<sub>2</sub> ratio) is critical

## RELATED PRODUCTS

Additive Technology Product Family:

**SF10 – Solid additive for Hg oxidation**

**SF20 – Liquid additive for Hg oxidation**