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## **Attention: New Product Editor**

February 26, 2004  
NEW PRODUCT RELEASE

### **S-14 Bio Combines Scale & Corrosion Control For Cooling Towers and Systems**

Utilizing Cortec® Advanced Green Technology, S-14 Bio offers a new bio formulation for scale and corrosion control in cooling towers and other open-loop, recirculating cooling systems. The product is comprised of non-toxic, non-hazardous, and readily biodegradable ingredients. The main component in S-14 Bio is a low molecular weight natural polymer and all other components are GRAS (Generally Recognized as Safe) substances and food approved preservatives. The readily biodegradable formulation is effective in a variety of open and closed systems at low dosages.

S-14 Bio provides powerful scale inhibition and excellent multi-metal corrosion protection. In contrast to conventionally used antiscalant products that offer no or limited multi-metal protection, S-14 Bio protects carbon steel, galvanized steel, aluminum, copper, and other non-ferrous metals.

Corrosion tests were run in comparison with typical antiscalants such as phosphonates, polyacrylates, and polyaspartic acid. Half immersion tests were used on carbon steel, aluminum, galvanized and copper to evaluate the corrosion protection offered in the liquid phase, the vapor phase and the water-air interface of a cooling system. The typical antiscalants showed limited degrees of corrosion protection and S-14 Bio showed excellent protection in each case.



Without offering true multimetal protection, the conventionally used antiscalants require supplementary corrosion inhibitors to protect a cooling system. Supplemental inhibitors can introduce both compatibility concerns and changes to the safety and biodegradability characteristics of a treatment formulation. S-14 Bio is specially designed for compatibility with commonly used water treatment programs. It provides a strong building block in cooling water treatment systems for incorporating antiscalants that offer biodegradable properties and excellent multi-metal corrosion protection.

**Photos:** High resolution photo available for download at: <http://www.blueleopard.net/cortecdownload/s14bio>

**Company Description:** Cortec® Corporation, a pioneer in environmentally friendly water treatment, packaging, metalworking, cleaning and metal protection technologies, is located in White Bear Lake, Minnesota. ISO 9001 and 14001 Certified, they manufacture over 300 products in five plants located in Minnesota and Wisconsin. Cortec is a global supplier of innovative and environmentally friendly specialty chemicals, plastics and coated papers.

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