



## Water Purification Merger

Vanson, Inc. and HaloSource Corp. today announced the completion of a merger to form Vanson HaloSource, uniting core business functions and scientific expertise to create products based on Vanson's chitin and chitosan technology and HaloSource's antimicrobial technology. Vanson's offerings are made from chitin, one of the world's most abundant natural polymers, and chitosan, a derivative of chitin. Chitin and chitosan, which are refined from crustacean shells, have unique chemical binding properties that make them useful in a variety of functions, including healing wounds and clarifying liquids. Biodegradable and non-toxic, chitin and chitosan have many water treatment, biomedical, home care, personal care and other applications.

Currently, the company produces chitosan-based Storm-Klear and Klarify for the storm water and wastewater treatment markets. Storm-Klear naturally reverses the process of soil contamination in storm water by reducing turbidity, phosphorous, metals, oils and grease. In turbid water, the chitosan in Storm-Klear coagulates sediment particles for efficient gravity settling, bio-filtration, sand filtration, or cartridge filtration in various industrial, municipal and construction applications. Klarify is a wastewater clarifier that safely flocculates suspended contaminants from beef, poultry, vegetable and other industrial processing waste streams.

HaloSource's core N-halamine technology harnesses the power of chlorine one of the most broadly used and effective antimicrobials, to kill all known bacteria, viruses, fungi and most parasites on solid surfaces and textile fibers. The technology enhances and prolongs the antimicrobial effectiveness of chlorine while significantly reducing toxic, carcinogenic and corrosive by-products in ways that existing products cannot. The addition of Halopure technology will integrate the antimicrobial properties of chlorine by attaching N-halamines to beads used in water filters, improving water purification for drinking water treatment, cooling towers and aquaculture. In addition to applications in the industrialized world, there is significant potential to generate potable water for developing countries without the need for electrical power or other forms of energy.

Vanson HaloSource is a bioscience company that employs chitin/chitosan and N-halamine-based technologies to create solutions for a wide range of customer applications. With facilities in Redmond and Raymond, Wash., the company combines expertise from chemists, biochemists and microbiologists to manufacture products and ingredients to serve the water treatment, biomedical, home care and personal care markets. It leverages cutting-edge processes to refine chitin and chitosan for water-clarification and various consumer products. With N-halamine technology, the company is developing antimicrobial and antiviral filters, coatings and textiles to purify water and improve sanitation in homes, healthcare settings and a multitude of environments.

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