



news release

For Immediate Release

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CTI Introduces Another Industry First: Solvent Thermochromic Color-Changing Inks

*Flexible Packaging Industry to Benefit from Faster, More Economical
Use of Inks for Temperature-Sensitive Applications*

Colorado Springs, Colorado U.S.A. - - The allure of printed packages and labels that change colors to reflect product temperatures has been expanded. Chromatic Technologies Inc. (CTI) has launched the packaging industry's first thermochromic ink for use in solvent ink applications. CTI's achievement represents a technological breakthrough, especially for the flexible packaging industry, and is a technological breakthrough many thought could never be done.

Solvent inks for printing are used by over 95 percent of flexible packaging suppliers. Prior to CTI's development of Solvent Thermochromic Ink, printers were forced to run water-based specialty technology. Using water-based inks inside a

solvent plant created challenges (1) affecting efficiency and economics for customers, (2) increasing set-up times as well as set-up, cleaning and (3) affecting solvent recapture.

CTI's Solvent Thermochromic Ink also offers the advantage of delivering much stronger color compared to water-based inks, which heretofore often required more than one printing station to achieve target color density. Solvent Thermochromic Ink is delivered as a one-part, finished ink to customers.

Prior attempts at using solvent thermochromic inks failed due to the solvents attacking the encapsulated chemistry of the printing process. In some cases, ink customers would wait to mix a thermochromic concentrate with a solvent immediately prior to printing. As such, the ink must be typically applied in the next eight hours, and everything that is unused was thrown away, resulting in waste of typically 30 percent.

"CTI had a technology breakthrough inventing solvent-thermochromic inks that can be delivered as a single, finished, print-ready ink which maintains a shelf-life of 90 days," said Lyle Small, CTI's founder and president. "This new technology just made a lot of production and economic headaches disappear for our customers and creates a pipeline of innovation they can bring to market."

In addition to thermochromic, CTI now offers a suite of solvent-ready specialty ink technologies including glow-in-dark, photochromic, hydrochromic, pressure-activated and reveal inks.

During August 2019, CTI is offering free solvent trials to qualified customers. Trial requests can be submitted at inquire@ctiinks.com or 719-592-1557.

CTI was founded in 1993 and has since grown to be the world's largest specialty ink supplier.

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About Chromatic Technologies Inc.

CTI is based in Colorado Springs, Colorado, U.S.A., and was founded in 1993. CTI focuses on proprietary chemistry that alerts, protects and surprises and includes materials that react to heat and cold, light and pressure, as well as anti-counterfeiting taggants. CTI is the world's largest manufacturer of thermochromic materials for packaging, and exports to 52 countries. CTI has also recently been awarded new patents for thermochromic inks for metal decoration. The company's latest innovation is its "Color Explosion" capability, which provides a dramatic increase in color palettes targeted to customer-driven needs such as communicating cold refreshment, flavor enhancement and engaging inspiration for settings reminiscent of the tropics, nature, modernism and nightlife. www.ctiinks.com

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