GELEST INTRODUCES COBALT TRICARBONYL NITROSYL (INCO032) AS A LOW TEMPERATURE CVD PRECURSOR FOR SEMICONDUCTOR APPLICATIONS

MORRISVILLE, Pa. (December 2, 2014) - Gelest Inc., a leading innovator, manufacturer and supplier of organosilicon compounds, metal-organic compounds and silicones to the global marketplace, has extended its product offering to include Cobalt Tricarbonyl Nitrosyl (Gelest Product Code INCO032), which is produced in the company’s newly commissioned facility in Morrisville, Pennsylvania.

The growth of thin films via chemical vapor deposition (CVD) is an industrially significant process with a wide array of applications, notably in microelectronic device fabrication. Chemical vapor deposition (CVD) is carried out by passing a volatilized precursor (such as a silane, organometallic or metal coordination complex) over a heated substrate.

Cobalt Tricarbonyl Nitrosyl presents clear advantages versus other available precursors in CVD deposition processes that include high volatility (vapor pressure 26 Torr at 0°C and 100 Torr at 25°C), is available in liquid form, and exhibits good stability (decomposition temperature >66°C) and low toxicity. Furthermore, Co is in an oxidation state of zero in this compound, which implies that metal-ligand bonds are easily cleaved to yield pure metal films, and only CO + NO as byproducts.
To obtain a copy of Gelest’s new reference piece, “Cobalt Tricarbonyl Nitrosyl,” or to engage in discussions to explore solutions for your new product development initiatives, please contact: Gabrielle Lockwood, Sales & Marketing Associate, at 215-547-1015 or glockwood@gelest.com.

About Gelest

Gelest, Inc., headquartered in Morrisville, Pennsylvania, is recognized worldwide as an innovator, manufacturer and supplier of commercial and research quantities of organosilicon compounds, metal-organic compounds and silicones. Gelest serves advanced technology markets through a materials science-driven approach. The company provides focused technical development and application support for semiconductors, optical materials, pharmaceutical synthesis, diagnostics and separation science, and specialty polymeric materials: “Gelest – Enabling Your Technology.”