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NEWS RELEASE

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For Immediate Release

GELEST, INC. COMMERCIALIZES DIIDOSILANE TO MEET GLOBAL DEMAND FOR NEXT-GENERATION SEMICONDUCTORS

MORRISVILLE, Pa. (June 26, 2018) – Gelest, Inc. announced today it has commercialized diidosilane to meet the global demand of the semiconductor industry for next-generation semiconductor chips. Gelest’s dedicated diidosilane plant in Morrisville, Pa., is fully operational and can produce commercial quantities of diidosilane with purity in excess of 99.9%.

Diidosilane is a key chemical precursor used by semiconductor companies worldwide in the development and scale-up of next-generation semiconductor chips that require high throughput, highly conformal silicon nitride thin films. Diidosilane is typically deposited by plasma-enhanced atomic layer deposition (PEALD) to create the silicon nitride thin film. Gelest sees a significant increase in demand for high purity diidosilane driven by development and production of semiconductor chips requiring silicon nitride thin films at low thermal budgets.

“Diidosilane is a critical material that enables further miniaturization of semiconductor chips,” said Dr. Jeffrey T. DePinto, Business Manager Silanes & Metal Organics. “Our expertise in high purity silicon precursors for the semiconductor industry has allowed us

to optimize the synthesis and scale-up of diiodosilane with the highest possible purity and lowest cost.”

Furthermore, Gelest has been developing iodasilane precursors for silicon nitride thin films for many years. The company has been granted a key patent, “Silicon-based Films Formed From Iodosilane Precursors and Method of Making the Same,” that claims a method for depositing silicon nitride thin films using iodasilane precursors.

About Gelest

Gelest, Inc., headquartered in Morrisville, Pennsylvania, has been a leading manufacturer and independent producer of specialty materials for the semiconductor industry for more than 25 years. Gelest is recognized worldwide as an innovator, manufacturer and supplier of commercial and research quantities of organosilicon compounds, metal-organic compounds and silicones. The company serves advanced technology markets through a materials science-driven approach. It provides focused technical development and application support for semiconductors, medical materials, pharmaceutical synthesis, diagnostics and separation science, and specialty polymeric materials: “Gelest – Enabling Your Technology.” – www.gelest.com

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Gelest, Inc.
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