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NEWS RELEASE

Client: Gelest
For Immediate Release

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Gelest, Inc. Launches SIVATE™ E610 Enhanced Amine Functional Silane;
Improves corrosion resistance, durability and bond strength

MORRISVILLE, Pa. (May 30, 2017) – Gelest, Inc. has unveiled its new **SIVATE™ E610** *Enhanced* amine functional silane, which offers improved performance with non-siliceous surfaces, improved corrosion resistance of metal substrates, superior film-forming properties in primer applications, higher bond strength in aggressive aqueous conditions, and imparts composites and primers with long-term durability in a wide range of environments. Gelest offers **SIVATE™ E610** *Enhanced* amine silane for use as an adhesive primer for metallic and siliceous substrates, coupling agent for thermoset and thermoplastic composites, corrosion inhibiting primer for paints and coatings on ferrous and non-ferrous substrates, and functionalization of Micro-Particles for use in adhesives and sealants.

SIVATE™ E610 *Enhanced* silane is a proprietary combination of a dipodal silanes with an amine functional silane. The Enhancement of silanes is effected by incorporation of functional and non-functional dipodal silanes. The dipodal silane combines with the functional silane to form a tight conformal network of

siloxane bonds, reduces water adsorption at the interface and, most importantly, forms multiple oxane bonds with the substrate.

Compared to conventional silanes, which potentially bond form 3 oxane bonds, **SIVATE™ E610** *Enhanced* amine silane can form up to 6 oxane bonds with the substrate. Theoretical studies suggest that the dipodal silanes could have up to 10^6x greater stability in aqueous environments. The enhanced bond potential offers improve mechanical properties, the ability to form coatings on a greater range of substrate, and increase durability of coatings, primers and composites to long-term environmental exposure.

The introduction of **SIVATE™ E610** *Enhanced* amine silane is an example of Gelest's customer-centric research and development. For more information or to request samples, visit Gelest, Inc. at www.gelest.com.

Gelest, Inc.
Enabling your Technology

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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, medical materials, pharmaceutical synthesis, diagnostics and separation science, and specialty polymeric materials: “Gelest – Enabling Your Technology.” www.gelest.com

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