

FOR IMMEDIATE RELEASE

Tetramer Technologies Awarded EPA SBIR Grant to Develop Biorenewable Rubber Anti-Degradants

Pendleton, SC – January 14, 2025 – Tetramer Technologies, LLC is pleased to announce the receipt of a \$100,000 Phase I Small Business Innovation Research (SBIR) grant from the U.S. Environmental Protection Agency (EPA). This funding will support the development of biorenewable, high-performance tire rubber additives aimed at replacing 6PPD, a conventional anti-degradant associated with environmental toxicity.

6PPD is widely used in vehicle tires to protect rubber from degradation caused by ozone, heat, and oxygen, thereby extending tire lifespan. However, its breakdown product, 6PPD-quinone, has been linked to significant environmental and health concerns, particularly its toxic effects on aquatic life.

Tetramer's innovative approach utilizes a platform of tunable biobased derivatives designed to enhance compatibility and performance in specific rubber applications. These biorenewable anti-degradants aim to offer comparable or improved protection against ozone, UV radiation, and thermal degradation, aligning with industry standards for tire durability and safety.

Dr. Monika Mujkic, Principal Investigator at Tetramer, stated, "We are excited to advance the development of sustainable rubber additives that not only meet the performance demands of the tire industry but also address pressing environmental concerns associated with traditional chemicals."

Expressing enthusiasm about the project's potential, Michelle DiMaio, CEO of Tetramer Technologies, commented, "This EPA SBIR grant enables us to pioneer eco-friendly solutions in the rubber industry, reflecting our commitment to innovation and environmental stewardship. We look forward to delivering alternatives that contribute to a more sustainable future."

For more information about Tetramer Technologies and our ongoing projects, please visit www.tetramer.com.

About Tetramer Technologies, LLC

Located near Clemson, SC, Tetramer is an advanced materials company dedicated to the development of market-driven materials and transitioning those materials from the lab to the market or battlefield. With extensive R&D and manufacturing capabilities, Tetramer serves as both a research partner and a supplier of proprietary custom materials. We also provide analytical services to support manufacturers in solving their materials-related challenges. Our team includes scientists and engineers with backgrounds in organic, physical, polymer, and analytical chemistry, ceramic engineering, materials science, and chemical engineering. With expertise in materials design, synthesis, analytical characterization, and scale-up, we provide customized support to our partners across every stage of innovation from molecule to manufacturing.

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