



## MidContinental Chemical Company, Inc.

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Contact: Everett Osgood (913) 390.5556  
Everetto@mcchemical.com

### MIDCONTINENTAL CHEMICAL COMPANY FIGHTS PIPELINE STRESS CORROSION CRACKING

#### New Additive Allows Fuel Ethanol to be Transported in Multi-Product Pipelines

**Olathe, Kans.** – MidContinental Chemical Company, Inc. announces its new fuel ethanol additive designed to combat stress corrosion cracking (SCC). This new chemistry potentially paves the way for fuel ethanol to be shipped throughout North America using the nearly 100,000-mile petroleum pipeline network that delivers the nation's petroleum products (gasoline, diesel fuel, home heating oil, etc.) reliably, safely, efficiently and economically.

Since government regulations require increased use of ethanol in gasoline, and most fuel ethanol is transported by truck and rail, the cost savings of pipeline transportation are critically important. Fuel ethanol transportation and storage do have their challenges, one of which is stress corrosion cracking. SCC is the slow growth of cracks along a pipeline, which are caused by mechanical stress and exposure to a corrosive material. Since SCC can eventually lead to pipe rupture, MCC's new stress corrosion cracking combatant is a significant scientific breakthrough.

MCC's new product family consists of film formers combined with other functional additives. These products are clear, non-hazardous, mobile liquids, meaning they provide both protection from corrosion and do not harm the fuel product. According to **Phil Korosec**, Technical Director at MidContinental Chemical Company, Inc., "Our bench testing using ASTM G129 and other extensive tests on fuel ethanol under pipeline-like conditions indicate that fissuring and cracking can actually be halted, keeping harmful components of fuel ethanol from compromising the integrity of pipelines, without harming the ethanol."

Since increased ethanol usage has been mandated by Renewable Fuel Standard 2 (RFS2), a less expensive way to transport ethanol is greatly needed. "It's estimated that transporting fuel ethanol in existing pipelines instead of by truck or rail can reduce transportation costs by up to 90% in some areas. That's an enormous savings," states **Everett Osgood**, Product Manager for Fuel & Renewable Fuel Additives at MidContinental Chemical.

Importantly, MCC's new product group is a custom-engineered chemical solution. "Although we have a base, patent-pending product, we anticipate that each customer will want to work with us to develop a solution customized to their situation, such as climate, pipeline types and conditions, product flows and more. We are ready to help customers that are serious about the great opportunity presented by MidContinental Chemical's new SCC additive solutions," adds Osgood.

#### About MidContinental Chemical Company, Inc.

MidContinental Chemical Company, Inc. was established in 1994 and now has eleven sales offices located strategically throughout North America. The company manufactures and distributes petroleum additives that enhance the performance of fuels and lubricating oils in vehicles, equipment and machinery. MCC provides comprehensive additive solutions to the petroleum industry, including petroleum terminals, lube oil manufacturers, pipeline operators and aftermarket producers. In addition to specialty chemicals, MCC assists clients with equipment needs, and provides specialized support services, such as regulatory compliance and marketing programs. With a line of top brands, including Chevron Oronite, BASF, Albermarle and Dow, MidContinental Chemical Company, Inc. is positioned to offer customers performance advantages from the most advanced additive technology available today. For more information about MidContinental Chemical Company, Inc., contact **Everett Osgood**, MidContinental Chemical Company, Inc., at 913.390-5556, or everetto@mcchemical.com.