

EPA Announces Decision for Regulation of Fuel and Fuel Additives: Modification to Octamix Waiver Regarding TXCeed

The Environmental Protection Agency (EPA) is announcing modification of the Texas Methanol's gasoline-alcohol fuel waiver, also known as OCTAMIX, to allow the use of Spirit of 21st Century LLC corrosion inhibitor, TXCeed.

Elements of this Notice

The Texas Methanol Corporation received a waiver under CAA section 211(f)(4) for a gasoline-alcohol fuel blend, known as OCTAMIX,¹ provided that the resultant fuel is composed of a maximum of 3.7 percent by weight fuel oxygen, a maximum of 5 percent by volume methanol, a minimum of 2.5 percent by volume co-solvents² and 42.7 milligrams per liter (mg/l) of Petrolite TOLAD MFA-10 corrosion inhibitor³. In the OCTAMIX waiver, the Agency invited other corrosion inhibitor manufacturers to submit test data to establish, on a case-by-case basis, whether their fuel additive formulations are acceptable as alternatives to TOLAD MFA-10.⁴

On March 23, 2011, Spirit of 21st Century LLC requested EPA allow the use of its alternative corrosion inhibitor, TXCeed, in the OCTAMIX gasoline-alcohol fuel blend which otherwise would not be allowed under the waiver. Spirit of 21st Century

¹ OCTAMIX decision, 53 FR 3636 (February 8, 1988).

² The co-solvents are any one or a mixture of ethanol, propanols, butanols, pentanols, hexanols, heptanols and octanols with the following constraints; the ethanol, propanols and butanols or mixtures thereof must compose a minimum of 60 percent by weight of the co-solvent mixture; a maximum limit of 40 percent by weight of the co-solvents mixture is placed on the pentanols, hexanols, heptanols and octanols; and the heptanols and octanols are limited to 5 percent by weight of the co-solvent mixture.

³ Additional conditions were the final fuel must meet ASTM volatility specifications contained in ASTM D439-85a, as well as phase separation conditions specified in ASTM D-2 Proposal P-176 and Texas Methanol alcohol purity specifications.

⁴ 53 FR at 3637.

LLC subsequently followed up its March 23rd request with additional information on

May 17, 2011 and August 15, 2011. TXCeed is a fuel additive formulation consisting of a corrosion inhibitor.

On December 14, 2011, EPA published a notice in the Federal Register (76 FR 77828) announcing receipt of Spirit of 21st Century LLC's request and inviting comment on it. The comment period closed on January 13, 2012. There were no comments in response to this notice. Spirit of 21st Century LLC provided data showing their corrosion inhibitor, TXCeed, passed ASTM⁵ and NACE⁶ corrosion test results. With this notice, EPA is announcing its decision to modify the OCTAMIX waiver to allow the use of TXCeed as an alternative corrosion inhibitor to TOLAD MFA-10.

Health and Environmental Impacts

There will be no adverse health or environmental impact as a result of allowing this alternative corrosion inhibitor, TXCeed, and the clean air benefits of EPA's gasoline motor vehicle fuel programs will continue to be realized.

Gasoline Supply Benefits

This action may provide additional flexibility to the regulated community by allowing an additional corrosion inhibitor for use in Texas Methanol's gasoline-alcohol fuel, also known as OCTAMIX.

For More Information

You can access the rule and related documents on EPA's Office of Transportation and Air Quality (OTAQ) Web site at:

www.epa.gov/otaq/fuels/registrationfuels/notices.htm

For more information on this rule, please contact Joe Sopata at:

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⁵ ASTM D130-04^{e1} and ASTM D4814-10a

⁶ NACE Standard TM0172-2001.