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Paper Detailing Characteristics, Formulation Strategies for Agrol[®] Polyols Presented at PU2011

SPRINGDALE, Arkansas (Sept. 26, 2011) – A team from BioBased Technologies[®] is presenting a paper at the Polyurethanes 2011 Technical Conference in Nashville, Tenn. on Sept. 28.

The paper focuses on the characteristics of Agrol[®] polyols, a product of BioBased Technologies[®], formulation strategies for incorporating the bio-based polyol in polyurethane rigid foam formulations and properties of the foam systems that are created.

Agrol[®] polyols are hydroxylated triglycerides that are derived from refined soybean oil using a patented oxidation process. Five polyols with secondary hydroxyls create a range of products that have hydroxyl values ranging from 70 to 190 mg KOH/g. Agrol Diamond[®] is produced by further modification of the Agrol[®] structure to give primary hydroxyl groups. Agrol Diamond[®] is a 3 functional polyol, containing approximately 70% primary OH with a 350 hydroxyl number.

“The compatibility of these soy-based polyols with polyethers make partial substitution of Agrol[®] for the petroleum-based polyols an easy process,” said Dr. Neil Nodelman, who presented the paper at the technical conference.

Agrol[®] polyols are high in both carbon and biocarbon contents with 99% biocarbon for Agrol[®] 2.0 through 7.0 and 86% biocarbon for Agrol Diamond[®]. That level of biocarbon makes substitutions into petroleum polyol blends an efficient way to increase the bio-based content of rigid foams.

The broad range of equivalent weights and functionalities available in the Agrol[®] product line also gives the formulator more choices in designing a system that meets the requirements of his or her application.

Complete copies of the paper, authored by Nodelman, Nikki Shackelford, Luke Hall, Jianghong Qian and Will Parker, are available at www.agrolinside.com/news.

The Center for the Polyurethanes Industry of the American Chemistry Council received more than 60 individual paper presentations from around the world, which were evaluated by a highly regarded peer group of industry professionals to provide conference delegates with the highest quality of technical papers.

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About BioBased Technologies[®]

BioBased Technologies[®] is focused on developing and marketing sustainable solutions for the manufacturing and construction industries. Products offered by BioBased Technologies[®] include Agrol[®], bio-based polyols; and BioBased Insulation[®], spray polyurethane foam insulation and sealants available from a network of approved contractors. BioBased Technologies[®], LLC is headquartered in Northwest, Ark. For more information about the products available from BioBased Technologies[®] visit www.biobasedtechnologies.com.

