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The evolution of modern pesticides has naturally resulted in more complex, higher molecular weight active ingredients which exhibit both reduced solubility and bioavailability, while the demand for more sustainable and economically advantageous agrochemical delivery systems continues to increase. Therefore it's anticipated that the market for formulations that are well-suited to these trends - for example, suspension concentrates (SC) and water dispersible granules (WG) - will continue to grow.

The more accessible delivery system of these two examples is arguably the suspension concentrate, and part of this accessibility can be attributed to the high-performance dispersing agents that make their existence possible. But there are several ongoing challenges still faced during the development and commercialisation of these formulations which can stifle their desirability. These challenges include susceptibility to temperature fluctuation, unwanted rheological phenomena, and re-crystallisation of the dispersed phase, all of which can result in destabilisation. Though by continuing the design and development of new, novel dispersant chemistries that are more tailored to agrochemical substrates, these challenges can be tackled more effectively.

This paper introduces TERSPERSE® 2612 dispersant, a novel polymeric dispersant for use in agrochemical suspension concentrates. TERSPERSE® 2612 dispersant integrates specific technology to create a dispersing agent that can provide improved formulation stability by overcoming the challenges described above. TERSPERSE® 2612 dispersant has shown particular novelty with respect to suppression of particle size growth.

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