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High performance dispersing agents are one of the key pillars of formulation systems comprising a solid dispersed phase. Without quality dispersants, it's possible that formulation types such as SC, WG and particularly more troublesome or advanced examples thereof would remain rather uncommon, which is in contrast to their significance among modern agrochemical product portfolios.

Both aqueous and non-aqueous dispersion systems rely on the presence of efficient dispersants to prevent an array of undesirable behaviors related to flocculation or aggregation, allowing for commercially desirable products that stand the test of time. In simple terms, dispersants function by creating barriers between dispersed particles, being either steric, electrostatic or both, and of course there's a broad array of commercially available surfactants that can induce such effects.

Polymeric surfactants are particularly efficacious in the sense of yielding robust and efficient dispersant performance. Polymeric dispersants generally achieve this robustness through improved anchoring and a greater concentration or density of repulsive functionality when compared to typical 'A-B' type surfactants.

This presentation therefore aims to briefly introduce the key facets of Huntsman dispersant technology including key physiochemical considerations, focusing particularly on polymeric products for agrochemical applications.