

Polymer dispersion as spray drift control agent for in-can and tank-mix application

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Summary

Drift control of agrochemicals is not only of environmental, but also of technical and commercial interest. An excellent spray application without drift results in high efficiency of crop protection agents reducing both, the active ingredient loss and its movement to undesired non-target areas.

The use of polysaccharides as drift control agents in agrochemical spray applications were already reported back in the 1960s. Solid polysaccharides are pre-prepared with water in an easier incorporable form, which makes its dilution and its applicability as a tank mix additive easier. Afterwards, other type of polysaccharide formulations were prepared in water or oil and promoted as tank mix additives.

TANATEX Chemicals Solutions is a German based special chemical company. Our history can be traced back to the early 1950s, when we were a part of the BAYER AG with HQ in Leverkusen, Germany. With the development of TANAVIS® drift control agents; we have strengthened greatly our surfactants, emulsifiers and defoamers product range. The action mechanism of TANAVIS® drift control agents is the same to that one of polysaccharides. However, the novel delivery form as liquid dispersion of high polymer content in oil and solvents enables its direct building-in in agrochemicals formulations. In solvent based agrochemical formulations such as EC or OD, TANAVIS® behaves inert, latent and doesn't show impact on the formulation. The anti-drift effect develops once the formulation is diluted or comes in contact with water. This switch-ability gives to the formulator more flexibility and reliability in the design of novel and effective agrochemical formulations. .

Besides the use of TANAVIS® as a component in EC and OD in-can formulations, this powerful drift control agent, is also suitable as a tank-mix adjuvant. The optimal delivery form as flowable liquid makes easy its dosage and its distribution in the spray tank.

In this presentation we will present the anti-drift results with spray solutions containing TANAVIS® and exhibit its potential as a powerful drift control agent for different in-can formulation types.