

AQUASORB™ 3005

Safe Use In Agriculture, Horticulture and Forestry

AQUASORB™ 3005 is a cross-linked polyacrylamide (PAM) designed to increase the water holding capacity of soils. In this way it enhances plant growth by rendering nutrients available in the root zone for optimal absorption by plants and provides a buffer effect against climatic hazards.

Cross-linked and linear (soluble) PAM products have been used very successfully in agricultural applications since the early 1980s. The scope of their beneficial use has constantly increased since then. Today, the Agricultural Research Service (ARS) at the United States Department of Agriculture (USDA) has devoted a whole section of its website to the beneficial use of PAM: <https://www.ars.usda.gov/pacific-west-area/kimberly-id/northwest-irrigation-and-soils-research/docs/pam-research/>.

AQUASORB™ 3005 like all PAM products is non-hazardous to both human health and to the environment. These high molecular weight polymers degrade slowly in the environment without producing hazardous decomposition products. Numerous tests have demonstrated their innocuity to plants and soil organisms. The residual monomers – acrylic acid and acrylamide – are present at very low concentrations and are highly biodegradable resulting in rapid elimination from the soil. Furthermore, they are not taken up by plants at any stage in their development.

Polyacrylamides have been approved worldwide in direct and indirect food-contact applications including drinking water treatment, sugar clarification and food packaging as well as being components of a whole range of personal care and household products.

In conclusion, **AQUASORB™ 3005** is safe to use in agriculture, horticulture and forestry. It does not represent a health risk for users or consumers, nor does it cause harmful effects in fauna or flora or in the environment at large.

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