

## **Anionic polymer for wastewater clarification**

In the United States, ONDEO Nalco Co. has developed an anionic polymer in the form of a water continuous dispersion. Earlier, the manufacture of high molecular weight acrylamide polymers or copolymers were in either a dry powder form or a liquid water-in-oil emulsion latex form. ULTIMER 00LT053 is made possible by the use of proprietary dispersion polymer stabilizers and novel polymerization processes that allow the manufacture of a highly concentrated acrylamide/acrylic acid copolymer in the form of a liquid without utilizing hydrocarbon oils or surfactants.

Compared with latex and dry powder technologies, ULTIMER 00LT053 is a low bulk viscosity fluid (<1,000 cP). The principal application is for clarification of wastewater in a wide variety of industrial process waters, including those from textile, automotive, pharmaceutical and food product manufacturers. As the product is water-based, in case of small spills it can easily be dissolved and flushed down the drain. The oil-free anionic polymer is non-inflammable and has good stability in storage. It has virtually no volatile organic content and the chemical and biological demands are low. The polymer's COD value is about three times lower and BOD value 70 times lower than the latex product.