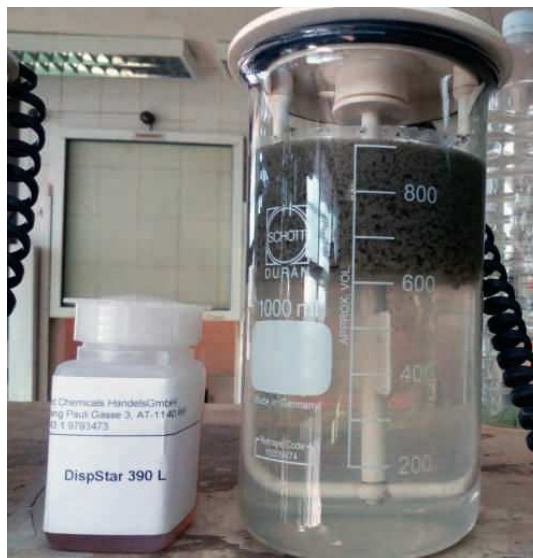


## DISPSTAR® – The New Stars In The ACAT Sky

Our new DispStars® are highly efficient organic demulsifiers and they offer unique properties in all areas of emulsion splitting, from the petrochemical industry to wastewater treatment.



*Emulsion before treated with DispStar® (left) and after treatment (right)*

Who does not know the famous milk lemon experiment? A few drops of lemon juice are enough to make a nice tasty fresh milk a flaky unappetizing liquid. An unpleasant, unwanted effect “happening” in many areas, needed to be prevented. I would like to deal with this topic today.

Milk is a classic example of an emulsion. An emulsion is a highly dispersed mixture of two normally immiscible liquids (such as oil and water). One liquid (phase) forming small droplets is dispersed in the other one. The phase forming droplets is called the internal or dispersed phase, the phase in which the droplets “swim” is called the outer phase or continuous phase. Emulsions belong to the disperse systems and they differ from completely mis-

cible liquids, like for example ethanol and water. Usually, emulsions are cloudy, milky liquids. In the case of milk, we are happy about the stable emulsion. But in many chemical processes, the emulsified liquids have to be separated. For this purpose, demulsifiers, also called emulsion breakers, are used. Demulsifiers are typically based on acids (example: lemon / milk) or on organic compounds.

ACAT has developed a new product line of highly efficient organic demulsifiers. Our new DispStar® products are used in all areas of emulsion splitting, from the petrochemical industry to wastewater treatment.

If you are looking for a solution to such problems, please contact our field service!