



The Chemical Company
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Epoxidized Soybean Oil

Applications

TCC's **Epoxidized Soybean Oil** (ESO) is used as a plasticizer and stabilizer in plastic materials, especially PVC and its copolymers to keep these plastics soft and pliable.

The chemical is also used as a pigment dispersing agent and acid/mercaptan scavenging agent as well as an epoxy reactive diluent.

Soybean oil is one of the most readily available and lower-cost vegetable oils in the world. ESO is industrially available in large volume at a relatively low price.

Due to its low cost non-toxic and environmentally friendly properties, as well as its biodegradability over traditional phthalate plasticizers, ESO is replacing dioctyl phthalate (DOP) in some applications.

TCC's ESO is also used as a pigment dispersing agent and acid/mercaptan scavenging agent as well as an epoxy reactive diluent. ESO and other epoxide substances are used as raw materials for various applications that include functional fluids, fuel additives, polyol replacements, agricultural and pharmaceutical molecules, flavor and fragrances, reactive diluents and UV cure applications, surfactants, adhesives, sealants, coatings, and special inks.