



MERGINAT ESBO / MERGINAT ESBO-02

PRODUCT INFORMATION

Product Description

MERGINAT ESBO and MERGINAT ESBO-02 are epoxidized vegetable oils based on soybean oil.

Typical Parameters

	MERGINAT ESBO	MERGINAT ESBO-02
Oxirane Content [%]	6.5 – 7.5	6.5 – 7.5
Acid Value [mg KOH/g]	Max. 0.5	Max. 0.3
Viscosity at 20°C[mPa*s]	400 - 600	500 - 600
Iodine Value [g I₂/100g]	Max. 3.5	Max. 2.5
Colour [Gardner]	Max. 2	Max. 2

Application and Properties

MERGINAT ESBO and MERGINAT ESBO-02 find a wide range of application as epoxy-plasticisers. Besides their effectiveness as plasticisers both products show a distinct effect on stabilizing polymers against the influence of heat, light and weather. Thus they improve the heat-, light- and aging-resistance of many plastic materials and resins.

Due to their high molecular weight they distinguish by extensive extraction-resistance, low volatility and low migration tendency.

MERGINAT ESBO and MERGINAT ESBO-02 are compatible with a wide range of vinyl compounds like PVC and a variety of other synthetic resins such as nitrocellulose-products and chlorinated rubber. They also possess wetting- and emulsifying properties and facilitate in many cases the processing of lacquers, pastes and compounds.

Well known is also the synergistic effect with stabilizing metal compounds, leading in the individual case due to smaller charging amounts to savings of expense at better product properties.

MERGINAT ESBO is the standard type with a wide range of application possibilities.

The special features of MERGINAT ESBO-02 are a very low acid value and residual iodine value.

It is preferably used in those applications where high demands are made on odour- and taste neutrality as for instance in packing materials which come directly into contact with foodstuffs. So it is used as a standard material in bottle- and container-caps made from soft PVC. Both MERGINAT ESBO and MERGINAT ESBO-02 are recommended for use as plasticisers in plastic materials by the German Federal Public Health Office and by FDA in USA.

Disclaimer

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