

Technical Information

BREAK-THRU® OE 440

Product description

BREAK-THRU® OE 440 is a polyether siloxane, also denoted as silicone glycol.

Physical properties

Viscosity at 25 °C	600 – 900 mPas
Density at 25 °C	1,04 g/ml
Type	non-ionic
Active content	> 95 %
Flash point	> 100 °C
Appearance	liquid
Colour	colourless to pale straw

Solubility

	1 %	10 %
Water	insoluble	insoluble
Ethanol	soluble	soluble
Cyclohexanone	soluble	soluble
Rapeseed methylester (RME)	soluble	soluble
Sunflower oil, Rape seed oil	soluble (max. 4 %)	dispersible
Mineral oil	soluble	soluble
Paraffinic oil	insoluble	insoluble

Application

BREAK-THRU® OE 440 is highly suitable to enhance the spreading and performance of vegetable oils (see Table 1 and 2).

Table 1: Surface Tension of rape seed oil [mN/m]

	Neat	1 % OE 440
RME	32.1	27.5

Table 2: Spreading of rape seed oil [diameter in mm]

	Neat	1 % OE 440
RME	12.0	50.0

Listing status

BREAK-THRU® OE 440 is listed in the following chemical inventories:

EINECS, TSCA, DSL, ENCS, AICS, ECL, CHINA and PICCS.

Per 40 CFR 180.910, BREAK-THRU® OE 440 is exempt from the requirement of a tolerance.

Storage stability

BREAK-THRU® OE 440 is stable in closed containers for two (2) years.

BREAK-THRU® OE 440 is not sensitive to freezing.

Packaging

1 000 kg plastic containers

Hazardous goods classification

Information concerning

- classification and labelling according to regulations for transport and for dangerous substances
- protective measures for storage and handling
- measures in case of accidents and fire
- toxicity and ecological effects

is given in our material safety data sheets.

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