

## Technical Information

**BREAK-THRU® S 240****Product description**

BREAK-THRU® S 240 is a polyether trisiloxane. In aqueous solutions, it imparts super spreading and dramatically reduces surface tension. Therefore the biological performance of crop protection products can be significantly enhanced by:

- superior wetting of hydrophobic surfaces, in particular leaves and other parts of plants;
- better uptake through penetration of cuticular waxes, and;
- stomatal flooding.

**Physical properties**

Viscosity at 25 °C	40 – 90 mPas
Density at 20 °C	1.00 – 1.02 g/ml
Type	100 % non-ionic
Flash point	> 100 °C
Pour point	< -10 °C
Surface Tension at 22 °C (0.1 %)	approx. 22 mN/m
Appearance	liquid
Colour	colourless to pale straw

**Solubility at 10 %**

Water	soluble
Butanol	soluble
NMP	soluble
Cyclohexanone	soluble
Rapeseed methylester	soluble
Sunflower oil	soluble
Solvesso 150	soluble

**Application**

BREAK-THRU® S 240 can be used in tank mix applications as well in formulations. Please inquire for details.

For tank mixtures pesticide manufacturers may suggest a rate of a non-ionic surfactant to be used with their product. Follow the corresponding label recommendation.

However, if the pesticide label does not have a specific recommendation for adjuvant use, but does not prohibit its application, BREAK-THRU® S 240 should be applied at rates listed below. Careful observation of spray performance in a trial application with the tank mixture to be sprayed is advised to determine proper and efficient rates.

**Dose rates****Arable crops**

Pesticides with systemic action: 200 ml/ha to improve wetting, spreading and uptake

Pesticides with contact action: 125 ml/ha to improve wetting and spreading

**Horticultural crops and orchards**

200 – 300 ml/ha, depending on the growth stage.

These dosages allow for various water volumes. To be in line with regulatory compliances, please observe the local label for BREAK THRU® S 240 in order to not exceed the maximum recommended concentration.

## Listing status

BREAK-THRU® S 240 is listed in the following chemical inventories:

EINECS, TSCA, DSL, AICS, ECL, ENCS, IECSC (China), PICCS.

Per 40 CFR 180.910, BREAK-THRU® S 240 is exempt from the requirement of a tolerance when used in accordance with good agricultural practice as an inert ingredient in pesticide formulations applied to growing crops or to raw agricultural commodities after harvest.

BREAK-THRU® S 240 is OMRI (Organic Materials Review Institute) listed.

## Storage stability

BREAK-THRU® S 240 is stable in sealed containers for 4 years. BREAK-THRU® S 240 is not sensitive to freezing.

## Packaging

4 x 200 kg drums (full pallet)  
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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