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
Туре	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.

Microbial compatibility

BREAK-THRU® S 240 is biocompatible with microbial control agents like *Trichoderma spp., Beauveria bassiana, Bacillus spp.*.

BREAK-THRU® S 240 is a carrier liquid for microbial formulations, providing excellent shelf life results.

BREAK-THRU® S 240 absorbs and coordinates water and by that it controls the water activity. Water activity is one of the key parameters for microbial shelf life stability.

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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