

Product 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
- Stomatal flooding

Typical Properties

Property	Unit	Value
Appearance		liquid
Color		colorless to pale straw
Density	g/cm ³	1.00-1.02
Flash Point, min.	°C	100
Pour Point	°C	-10
Solubility Butanol (10%), Cyclohexanone (10%), NMP (10%), Rapeseed Methyl ester (10%)		Soluble at
Solubility Solvesso 150 (10%), Soya Oils (10%), Sunflower Oils (10%), Water (10%)		Soluble at
Surface Tension 0.1% in Water	mN/m	22
Type of Emulsion		100% non-ionic
Viscosity	mPa·s	40-90

The data represents typical values (no product specification)

TYPICAL APPLICATIONS

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.

BENEFITS & ADVANTAGES

- BREAK-THRU® S 240 offers superior wetting of hydrophobic surfaces through super spreading, and dramatically reduces surface tension in aqueous solutions
- It improves adhesion and retention, as well as uptake through penetration
- BREAK-THRU® S 240 achieves all of the above through a very low treat rate of 0.05-0.1%, in the final dilution

HANDLING & PROCESSING

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.

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.

PACKAGING

4 x 200 kg drums (full pallet)

1 000 kg plastic containers

SHELF LIFE

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

HAZARDOUS SUBSTANCE

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.

REGISTRATION LISTING SUMMARY

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.

The relevant components of BREAK-THRU® S 240 are listed/registered or exempt in the following chemical inventories:

Registration Listings

Registry	Status
Australia (AICIS)	Yes
Canada (DSL)	Yes
China (IECSC)	Yes
European Union (EINECS/ELINCS)	Yes
Japan (ENCS)	Yes
Korea (KECL)	Yes
Philippines (PICCS)	Yes
United States of America (TSCA)	Yes

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