

Technical Information

BREAK-THRU® S 200**Product description**

BREAK-THRU® S 200 is a polyether trisiloxane. In aqueous solutions, it exhibits 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 20 °C	30 – 80 mPas
Density at 20 °C	1.01 – 1.02 g/ml
Type	non-ionic
Active matter	100 % undiluted
Flash point	> 100 °C
Pour point	-2 °C
Surface Tension at 22 °C (0.1 %)	approx. 22 mN/m
Appearance	liquid

Solubility

Water	soluble/dispersible
Alcohol	soluble
Aromatics	soluble
Aliphatic hydrocarbons	insoluble
Paraffinic oils	insoluble

Application

BREAK-THRU® S 200 can be used in tank mix applications as well in formulations e. g. EC, SC, SL.

In combination with BREAK-THRU® EM V 20, it provides excellent emulsification, especially EC formulations based on Solvesso™ aromatic fluids.

For tank-mixtures, pesticides 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 200 should be applied at rates listed here.

Further experimental work may be required to identify the specific dose rate of BREAK-THRU® S 200 when it is incorporated into a formulation with a crop protection product. Careful observation of spray performance in a trial application with the tank mixture to be sprayed is advised to determine proper and efficient surfactant 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 account for various water volumes. To be in line with regulatory compliances, please observe the local label whether a maximum concentration must not be exceeded.

Listing status

The components of BREAK-THRU® S 200 are listed in the following chemical inventories:

EINECS, TSCA, ENCS, AICS, ECL, PICCS CHINA, NDSL.

Per 40 CFR 180.910, BREAK-THRU® S 200 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.

Storage stability

BREAK-THRU® S 200 is stable in closed containers for 4 years.

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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