

Technical Information

BREAK-THRU® SP 133

Product description

BREAK-THRU® SP 133 improves the performance of herbicides, insecticides and fungicides.

BREAK-THRU® SP 133 is readily biodegradable as it is based on polyglycerol esters and fatty acid esters. It is produced with renewable resources and consists of 95% biobased carbon (ASTM D6866-16 Method). As a safe and environmentally friendly adjuvant, it is an alternative to tallow amine ethoxylates or alkylphenol ethoxylates.

Microbial compatibility

BREAK-THRU® SP 133 is biocompatible with microbial control agents like *Trichoderma spp.*, *Beauveria bassiana*, *Bacillus spp.*

BREAK-THRU® SP 133 is a carrier liquid for microbial formulations, providing excellent shelf life results.

BREAK-THRU® SP 133 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.

Benefits

BREAK-THRU® SP 133

- improves the adhesion, improves the adhesion, deposition and retention of agrichemical sprays on difficult-to-wet target species
- activates the uptake via diffusion through the cuticle and epidermal cell vacuoles
- reduces the amount of particles prone to drift
- is derived from renewable resources

Herbicides

Glyphosate for noxious weed control
Rimsulfuron in combination with dicamba for noxious weed control

Insecticides

Thiametoxam for control of cotton aphids

Fungicides

Difenoconazole for rust control on cotton

Dose Rate

For tank mix application BREAK-THRU® SP 133 is easily diluted to 0.1 % concentration.

Dosage with systemic crop protection ingredients is, in general, 300 ml/ha or 0.1 – 0.25 wt%.

When built into a pesticide formulation, the suggested rate is 1–5 w/w%.

Physical properties

Viscosity (DIN 53019) at 25 °C	300 – 350 mPas
Density at 25 °C	0.96 – 0.98 g/ml
Type	non-ionic
Active content	100 %
Appearance	clear to slightly hazy
Surface Tension at 0.1 % (Pendant Drop)	29 mN/m

Solubility at 10 % of BREAK-THRU® SP 133

Water	dispersible
Butanol	soluble
NMP	soluble
Cyclohexanone	soluble
Methyl Soyate	soluble
Vegetable oil	soluble
EXXSOL™ D 110	soluble
ISOPAR™ M	soluble
SOLVESSO™ 150	soluble
SOLVESSO™ 200	soluble

Storage Stability

BREAK-THRU® SP 133 may be stored for 48 months in factory-sealed packaging, stored between 5 to 50 °C and protected against extreme weather conditions particularly heat, cold and moisture.

Packaging

4 x 200 kg drums (full pallet)
1000 kg containers

Listing Status

BREAK-THRU® SP 133 is listed in the following chemical inventories:

TSCA, EINECS, AICS, ECL, PICCS, China

Per 40 CFR 180.910 BREAK-THRU® SP 133 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® SP 133 is OMRI (Organic Materials Review Institute) listed.

BREAK-THRU® SP 133 is FiBL (Forschungsinstitut für Biologischen Landbau) listed.

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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