

Technical Information

BREAK-THRU® SP 131**Product description**

BREAK-THRU® SP 131 is a blend of polyglycerol fatty esters and polyglycols. As a safe and environmentally friendly adjuvant, it may be used as an alternative to tallow amine ethoxylates or alkylphenol ethoxylates.

BREAK-THRU® SP 131 improves the performance of herbicides, insecticides and fungicides.

Benefits

- BREAK-THRU® SP 131 improves the adhesion and retention of agrochemical sprays on difficult-to-wet target species.
- BREAK-THRU® SP 131 activates the uptake of pesticides via diffusion through the cuticle epidermal cell vacuoles.
- Spreading of methylated seed oils is improved with BREAK-THRU® SP 131.
- In field trials BREAK-THRU SP 131 improved the biological efficacy of pesticides better than alkylphenol or alcohol ethoxylates.

As a tank-side adjuvant BREAK-THRU® SP 131 improves the efficacy of pesticides. Some examples:

Herbicides

- Glyphosate for noxious weed control
- Rimsulfuron for weed control in maize

Insecticides

- Thiamethoxam for control of cotton aphids
- Abamectin for control of spider mites on almonds
- Dinotefuran for control of whiteflies on tomatoes

Fungicides

- Difenoconazole for rust control on cotton
- Azoxystrobin for downy mildew control on lettuce

Yield enhancement

- Improved cucurbit yield with quinoxyfen fungicide

Dose Rate

For tank mix application BREAK-THRU® SP 131 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%.

Physical properties

Viscosity (DIN 53019) at 25 °C	250 – 300 mPas
Density at 25 °C	1.07 – 1.09 g/ml
Type	non-ionic
Active content	90 %
Flash point	> 120 °C
Appearance	clear to slightly hazy
Surface tension at 0.1 %	38 mN/m

Solubility at 10 % of BREAK-THRU® SP 131

Water	dispersible
Butanol	soluble
NMP	soluble
Cyclohexanone	soluble
Vegetable oil	dispersible

Storage Stability

BREAK-THRU® SP 131 may be stored at least 48 months after delivery when maintained in factory-sealed packaging, stored between 5 to 50 °C and protected against extreme weather conditions particularly heat, cold and moisture.

On standing a slight phase separation is typical. With mixing and slight warming the material will return to a clear blend.

Packaging

4 x 200 kg drums (full pallet)
950 kg containers upon request

Listing Status

BREAK-THRU® SP 131 is listed in the following chemical inventories:

EINECS, TSCA

Per 40 CFR 180.910 BREAK-THRU® SP 131 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.

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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