Product 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).

Typical Properties

Property	Unit	Value
Appearance		colorless to yellowish
Density at 25°C	g/cm³	0.96-0.98
Solubility in Butanol at 10%		soluble
Solubility in Cyclohexanone at 10%		soluble
Solubility in Exxol™ D 110 at 10%		soluble
Solubility in Isopar™ M		soluble
Solubility in NMP at 10%		soluble
Solubility sin Solvesso™ 150 at 10%		soluble
Solubility in Solvesso™ 200 at 10%		soluble
Solubility in Water at 10%		dispersible
Surface Tension at 0.1% (Pendant Drop)	mN/m	29
Viscosity at 25°C	mPa·s	300-350

The data represents typical values (no product specification)

TYPICAL APPLICATIONS

As a safe and environmentally friendly adjuvant, it is an alternative to tallow amine ethoxylates or alkylphenol ethoxylates.

Product Composition

Product Composition	Unit	Value
Active Content	wt%	100

The data represents typical values (no product specification)

BENEFITS & ADVANTAGES

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

DOSAGE

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%.

HANDLING & PROCESSING

Fungicides

- Difenoconazole for rust control on cotton

Herbicides

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

Insecticides

- Thiametoxam for control of cotton aphids

PACKAGING

4 x 190 kg drums (full pallet)

950 kg containers

SHELF LIFE

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.

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® 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.

BREAK-THRU® SP 133 contains 95% USDA certified biobased content.

The relevant components of BREAK-THRU® SP 133 are listed/registered or exempt in the following chemical inventories:

Registration Listings	
Registry	**Status**
Australia (AIIC)	Yes
China (IECSC)	Yes
EU (EINECS/ELINCS)	Yes
South Korea (KECL)	Yes
Philippines (PICCS)	Yes
USA (TSCA)	Yes

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