

Technical Information

BREAK-THRU® SF 420

Product description

BREAK-THRU® SF 420 is a unique, 100 % bio-based surfactant for Tank-Mix and In-Can applications. It is an adjuvant based on sophoro-lipids produced in a sustainable manner by fermentation. BREAK-THRU® SF 420 is readily biodegradable (> 99 % after 28 days) regarding OECD 301 C. It provides

- superior adhesion and retention of plant protection sprays on leaves and
- better uptake through penetration of cuticular waxes.
- dispersing properties for copper based substances like Cu(OH)₂ or Copper chloride.

Physical properties

Appearance	brownish liquid
pH (0.1 % w/w in water)	5.0 – 6.0
Density (25 °C)	1.00 – 1.10 g/cm ³
Surface tension at 22 °C (0.1 % w/w in water)	approx. 45 mN/m

Application

BREAK-THRU® SF 420 can be used in tank mix applications as well in formulations. Please inquire for details.

If the pesticide label does not have a specific recommendation for adjuvant use, but does not prohibit its application, BREAK-THRU® SF 420 should be applied at rates listed within this document. Careful observation of spray performance in a trial application with the tank mixture to be sprayed is advised to determine proper and efficient rates.

In SC formulations BREAK-THRU SF 420 in a use rate of 8 % – 12 % can disperse lime and copper. Furthermore, it improves the formulation by its adjuvancy properties.

Dose Rate

Arable crops: 300–600 ml/ha

Horticultural crops and orchards: 500 – 1000 ml/ha (0.125 %)

Listing status

BREAK-THRU® SF 420 is listed in the following chemical inventories:

EINECS, ENCS

Packaging

4 x 200 kg drums (full pallet)

1 000 kg plastic containers

Storage Stability

BREAK-THRU® SF 420 may be stored for 12 months in factory-sealed packaging, stored between 5 to 50 °C and protected against extreme weather conditions.

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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