

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 Coppoxchloride.

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 % is able to 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)

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.

This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.

Evonik Nutrition & Care GmbH
 Goldschmidtstraße 100
 45127 Essen, Germany
 Phone Europe +49 201 173 2665
 Phone Asia +86 21 61191 125
 Phone Americas +1 804 727 0700
interface-performance@evonik.com
www.evonik.com/interface-performance