

Product Information

BREAK-THRU® VIBRANT

PRODUCT DESCRIPTION

BREAK-THRU® VIBRANT is a non-foaming adjuvant. It is a non-ionic organic surfactant with excellent retention properties. As tank-mix adjuvant, BREAK-THRU® VIBRANT is used as a deposition aid.

Typical Properties

Property	Unit	Value
Appearance		clear to slightly yellow liquid
Density at 20°C	g/cm ³	0.96
Flash Point	°C	≤100
Solubility in NMP at 10%		soluble
Solubility in Paraffinic Oils		soluble
Solubility in Rapeseed Methyl ester at 10%		soluble
Solubility in Solvesso™ 150		soluble
Solubility in Water		dispersible, until 1 %
Viscosity at 25°C	mPa·s	35

The data represents typical values (no product specification)

TYPICAL APPLICATIONS

BREAK-THRU® VIBRANT imparts a very low dynamic surface tension and improves the adhesion of pesticidal sprays.

In field trials, BREAK-THRU® VIBRANT has proven safe for use on crops, and tests suggest good activity on pesticides used in grass crops such as cereals and rice.

We recommend a dose rate of 150-300 ml/ha. BREAK-THRU® VIBRANT has not proven phytotoxic in field trials, has a very low foaming potential and does not stabilize foams. Testing has also shown that the product reduces the

amount of driftable spray particles when used with flat fan nozzles.

Product Composition

Product Composition	Unit	Value
Active Content	wt%	100

The data represents typical values (no product specification)

BENEFITS & ADVANTAGES

- Non-silicone wetting agent
- Specifically suited for grasses (low dynamic surface tension)

PACKAGING

4 x 200 kg drums (full pallet)

1 000 kg containers upon request

SHELF LIFE

BREAK-THRU® VIBRANT is stable in closed containers for a minimum of three years.

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

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

Registration Listings

Registry	Status
----------	--------

Canada (DSL)	Yes
--------------	-----

China (IECSC)	Yes
---------------	-----

EU (EINECS/ELINCS)	Yes
--------------------	-----

Japan (ENCS)	Yes
--------------	-----

Registration Listings

Registry	Status
----------	--------

South Korea (KECL)	Yes
--------------------	-----

USA (TSCA)	Yes
------------	-----

Disclaimer

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third-party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

Evonik Operations GmbH

Interface & Polyurethane Additives
Goldschmidtstraße 100
45127 Essen
Germany