

## Technical Information

## BREAK-THRU® DA 646

**Product description**

BREAK-THRU® DA 646 is a non-ionic dispersing agent based on a special polyether.

**Physical properties**

Appearance	yellow-reddish, clear
Form (25 °C)	liquid
Density	1.05 g/ml
Refractive Index	1.502 - 1.510
Active content	100 %
Viscosity (at 25 °C)	200 - 800 mPas

BREAK-THRU® DA 646 does neither contain solvents nor any alkylphenoethoxylates.

**Application**

BREAK-THRU® DA 646 can be used as a dispersing agent especially in oil dispersions (OD) or suspo-emulsions (SE). It also serves as an emulsifier for EC formulations based on MSO and aromatic solvents.

**BREAK-THRU® DA 646**

- allows reduced grinding times
- No re-agglomeration of particles
- affords uniform particle sizes
- suppresses Ostwald ripening even at elevated temperatures and temperature cycles
- is not antagonistic to o/w emulsions and allows the formulation of suspo-emulsions
- can show additional properties as wetting agent

**Microbial compatibility**

BREAK-THRU® DA 646 is biocompatible with microbial control agents like *Trichoderma spp.*, *Beauveria bassiana*, *Bacillus spp.*

**Solubility (10 % v/v)**

Water	dispersible
Cyclohexanone	soluble
Methylated Seed Oils	soluble
Vegetable Oil	dispersible
EXXSOLTM D 110	soluble
SOLVESSOTM 150	soluble
SOLVESSOTM 200	soluble
Xylene	soluble
Butyl glycol	soluble

**Dosage/Handling**

BREAK-THRU® DA 646 is useful as a dispersing additive from 5-15 % (w/w) of the dispersed solids.

BREAK-THRU® DA 646 is useful as an emulsifier from 10-20 % (w/w) of the organic phase.

**Registration status**

BREAK-THRU® DA 646 is listed in the following chemical inventories:

EINECS, TSCA, DSL, ENCS, PICCS, and CHINA.

The ingredients of BREAK-THRU® DA 646 are not exempt from the requirement of a tolerance as specified in FIFRA 40 CFR, § 180.1001 (c).

### Storage stability

In closed original containers BREAK-THRU® DA 646 can be stored at temperatures below 40 °C for at least two (2) years.

### Packaging

4 x 200 kg plastic drum (full pallet)  
1 000 kg container

### 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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