

## Product Information

## BREAK-THRU® DA 646

## PRODUCT DESCRIPTION

BREAK-THRU® DA 646 is a non-ionic dispersing agent based on a special polyether and does neither contain solvents nor any alkylphenolethoxylates.

## Typical Properties

Property	Unit	Value
<b>Appearance</b>		yellow-reddish, clear liquid
<b>Density</b> at 25°C	g/cm <sup>3</sup>	~1.05
<b>Refractive Index</b>		1.506
<b>Solubility</b> in Butylglycol		soluble
<b>Solubility</b> in Cyclohexanone at 10%		soluble
<b>Solubility</b> in Exxol™ D 110		soluble
<b>Solubility</b> in Methylated Seed Oils (MSO)		soluble
<b>Solubility</b> in Solvesso™ 150		soluble
<b>Solubility</b> in Solvesso™ 200 at 10%		soluble
<b>Solubility</b> in Vegetable Oils at 10%		dispersible
<b>Solubility</b> in Water		dispersible
<b>Solubility</b> in Xylene at 10%		soluble
<b>Viscosity</b> at 25°C	mPa·s	200-800

The data represents typical values (no product specification)

## TYPICAL APPLICATIONS

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

## Product Composition

Product Composition	Unit	Value
<b>Active Content</b>	wt%	~100

The data represents typical values (no product specification)

## BENEFITS &amp; ADVANTAGES

- Particularly effective in OD formulations
- 100% Active content

## DOSAGE

BREAK-THRU® DA 646 is useful as a dispersing additive from 2-5% (w/w) of the dispersed solids. BREAK-THRU® DA 646 is useful as an emulsifier from 10-20% (w/w) of the organic phase.

## PACKAGING

4 x 200 kg plastic drum (full pallet)

1 000 kg container

## SHELF LIFE

In closed original containers BREAK-THRU® DA 646 can be stored at temperatures below 40°C for at least 2 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® DA 646 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
Philippines (PICCS)	Yes
USA (TSCA)	Yes

### Disclaimer

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