



# Technical Data Sheet

## MIGLYOL<sup>®</sup> 829 ECO

INCI:

Caprylic/Capric/Succinic Triglyceride

- ❖ Non-greasy emollient
- ❖ Low spreadability
- ❖ Good absorption on skin
- ❖ Long playtime



IOI OLEOCHEMICAL

Personal Care



## 1. Description:

### MIGLYOL® 829 ECO

MIGLYOL® 829 ECO is a glycerin esters of the fractionated C<sub>8</sub> and C<sub>10</sub> plant fatty acids, combined with natural succinic acid gained from non-GMO fermentation. The viscosity is about 230 mPa·s. Their high density of 1.00 – 1.02 g/cm<sup>3</sup> MIGLYOL® 829 ECO promotes stability in emulsions by counteracting the tendency of phase separation caused by different specific density of water and oil phase.

Additionally MIGLYOL® 829 ECO can be used to prepare stable two-phase formulations with free-floating oil droplets because of the density being the same as the one from water (see “Natural Line Hydra Splash” formulation below).

MIGLYOL® 829 ECO is a clear, slightly yellow liquid oil of neutral odor and taste.

MIGLYOL® 829 ECO is highly stable against oxidation and stay liquid at 0°C.

## 2. Typical Chemical and Physical Properties:

Tests	Value	Units
Acid value	max. 1	mg KOH/g
Iodine value	max. 1	mg I/100 mg
Saponification value	400 – 440	mg KOH/g
Peroxide value	max. 1 *	mequi O/kg
Hydroxyl value	max. 15	mg KOH/g
Color value	max. 200	APHA
Water	max. 0.3	%
Refractive index	1.456 – 1.459	n <sup>20</sup> <sub>D</sub>
Density at 20°C	1.00 – 1.02 *	g/cm <sup>3</sup>
Viscosity at 20°C	230 – 300 *	mPa·s
Heavy metals	max. 10 *	mg/kg
Total ash	max. 0.2 *	%

\* not included in Certificate of Analysis



### 3. Application:

MIGLYOL® 829 ECO is miscible in all ratios with all kind of oils.

#### Cosmetic Functions:

MIGLYOL® 829 ECO has the following advantages in comparison to natural oils:

- ❖ Low spreadability on the skin and good skin absorption
- ❖ Emollient and skin-smoothing properties
- ❖ High oxidation stability

#### Skin care:

<b>Creams and lotions:</b>	Non-greasy emollient oil components with low spreadability.
<b>Skin, face and baby oils:</b>	Non-oxidizing oil phase, imparts a smooth long lasting effect.
<b>Massage oils:</b>	Oil bases with excellent skin feel
<b>Masks:</b>	Emollient skin care additives.

#### Color cosmetic:

<b>Make-up, sticks, mascara:</b>	Dispersing oil component, compatible with pigments.
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#### Cleansing:

<b>Bath products:</b>	Fat component, readily miscible with natural oils and surfactants.
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#### Sun Care:

<b>Sunscreen products:</b>	Skin feel improvement and spreading control
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## Formulation Guide:

### Natural line Hydra Splash 2-Phase Skin Refreshing Tonic

No.: 743

Phase			%
A	Hyaluronic Acid	Sodium Hyaluronate	0,3
B	Aqua dem.	Aqua	ad. 100,0
C	Keltrol® CG-T	Xanthan Gum	0,5
D	Euxyl® K 700 <sup>2</sup>	Phenoxyethanol/Benzyl Alcohol/Potassium Sorbate/Aqua/Tocopherol	1,0
E	Color		q.s.
F	<b>MIGLYOL® 829 ECO<sup>1</sup></b>	Caprylic/Capric/Succinic Triglyceride	5,0
F	Tocopherol	Tocopherol	0,5
F	Parfum	Parfum (EU) /Fragrance (US)	q.s.

## Procedure:

1. Prepare this formulation at room temperature.
2. Dissolve phase A in phase B.
3. Add phase C + D and homogenize.
4. Add phase E to phase F and mix.
5. Add phase F to the formulation with moderate stirring.

## Supplier References:

<sup>1</sup>IOI Oleo GmbH

<sup>2</sup>Schülke & Mayr GmbH



Hydra Splash, 2-Phase Skin Refreshing Tonic with different MIGLYOL® 829 ECO concentrations

#### 4. Storage and Shelf Life:

Longterm storage in original tightly closed containers, dry, protected from light and moisture and below 25°C the shelf life then is for MIGLYOL® 829 ECO at least three years.

❖ Multitainer with 25 kg

- ❖ Store at temperature below 25°C
- ❖ Protect from light and moisture
- ❖ Shelf life 3 years

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