










# Non-ionic emulsifiers I

Castor oil ethoxylates

	Agnique® CSO-20	Agnique® CSO-25	Agnique® CSO-30	Agnique® CSO-35	Agnique® CSO-40
<b>Products and functions</b>	Castor oil ethoxylates				
<b>Description</b>	20 EO	25 EO	30 EO	35 EO	40 EO
<b>CAS number<sup>1)</sup></b>	61791-12-6	61791-12-6	61791-12-6	61791-12-6	61791-12-6
<b>Function</b>	Emulsifier for hydrophobic oils	Emulsifier for hydrophobic oils	Emulsifier, often combined with CaDDBS	Emulsifier, often combined with Pluronic® PE 9400	Efficient general-purpose non-ionic emulsifier
<b>Formulation type</b>	EC, OD	EC, EW, OD	EC, EW, SE	EC, EW, SE	EC, EW
<b>Sustainability</b>					
<b>Bio-based carbon</b>	 				
<b>Biodegradability</b>					
<b>Labeling</b>					
<b>RSPO MB certification</b>					
<b>Product properties</b>					
<b>Appearance</b>	Yellowish liquid	Yellowish liquid	Yellowish liquid	Yellowish liquid	Pasty liquid
<b>Active content (%)</b>	100	100	100	100	100
<b>Viscosity at 20°C (mPa·s)</b>	650	110 at 60 °C	800 (150 at 60°C)	600 at 23°C	1300 at 25°C
<b>Density at 20°C (kg/l)</b>	1.03	1.07	1.05	1.04 at 23°C	1.06
<b>Solubility in water<sup>2)</sup></b>	Opaque soluble	Soluble	Soluble	Soluble	Soluble
<b>Water content (% max.)</b>	0.3	0.3	2.0	0.3	0.3
<b>Cloud point (°C), method</b>	~67 (D)	~72 (E)	~75 (E)	72 (E)	74 (E)
<b>HLB (Griffin)</b>	10	11	12	12.5	13
<b>Registration/ Exemption</b>					
<b>China</b>	IECSC	●	●	●	●
<b>EU</b>	REACH <sup>3)</sup>	●	●	●	●
<b>USA</b>	TSCA <sup>4)</sup>	●	●	●	●
<b>USA EPA:</b>	40 CFR 180	960	960	960	NL
<b>USA EPA:</b>	4B List <sup>5)</sup>	●	●	●	●

<sup>1)</sup> CAS number of main component

<sup>2)</sup> Solubility in water: soluble ≥ 2g/l; insoluble < 2g/l

<sup>3)</sup> REACH registration: The product may be traded inside the European Union (EU), i.e. the ingredients are either registered or exempted

<sup>4)</sup> Listed as active in TSCA inventory

<sup>5)</sup> Per internal review OMRI eligible product