

# Licowax E flakes

Edition 08.11.2013

## Ester of montanic acids with multifunctional alcohols

Product-No.: 105198      CAS-No.:      Version: 8

### Product Description

Ester of montanic acids with multifunctional alcohols

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### Delivery specifications and (\*) general properties

Characteristics	Unit	Target value	Test method
Appearance		pale yellowish flakes	QM-AA-634
Acid value	[mg KOH/g]	15 - 20	ISO 2114
Saponification value	[mg KOH/g]	140 - 160	ISO 3681
Drop point	[°C]	79 - 83	ISO 2176
*Viscosity	[mPa·s]	~ 20	DIN 53019 at 100°C
*Density (23°C)	[g/cm <sup>3</sup> ]	~ 1,02	ISO 1183

### Delivery form

Flakes  
The product is also available in other physical form(s)

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### Packaging

Polyethylene bag 20 kg  
Pallet 1000 kg (50 bags)  
Big Bag 450 kg

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### Storage

For best shelf life store this product in a dry area at normal ambient temperatures.  
Minimum shelf life is 2 years from the date of shipping when properly stored.

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### Main applications

Lubricant for plastics especially engineering resins, PVC, styrenics and their masterbatches. Also suitable for elastomers, TPU and thermosets.  
Good paste-forming properties with organic hydrocarbon solvents.

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### Status under food legislation

EU: All components listed in Annex I, Table 1 of Commission Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food (no SML).  
FDA: 21 CFR §§ 178.3770 (a) and (c), 172.210 (b), 176.170, 176.180.  
Declarations regarding the requirements and specifications of several regulations and standards are available including: Directive 2011/65/EU (RoHS), CONEG's "toxics in packaging", EN 71-3 ("safety of toys – migration of certain elements"), Directive 94/62/EC ("packaging and packaging waste").  
For further information please contact your Clariant representative.

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**Hazards**

The product does not require a hazard warning label according to the German federal regulations of hazardous substances (GefStoffV).  
For further information please refer to the material safety data sheet.

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**Ecological and toxicological properties**

Acute oral toxicity LD50: >2000 mg/kg (rat)  
Biological degradability OECD 301D: 54%  
Fish toxicity LC50: >10 g/l (96 h)

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For all specifications, deliveries and services the following applies:

[Disclaimer](#)

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