

# DIOCTYL MALEATE

<b>Chemical:</b>	di (2-ethylhexyl) maleate
<b>CAS No:</b>	000142-16-5
<b>Molecular Formula:</b>	$C_{20}H_{36}O_4$
<b>Molecular Weight:</b>	340

### Physical and Chemical Properties

Appearance	Clear, slightly yellow mobile liquid
Color, APHA, as is	50 max
Purity, % by weight	98.5 min
2-Ethyl hexanol, % by wt	0.1 max
Specific Gravity, g/ml @ 25/25°C	0.939-0.945
Acid Number	0.1 max
Moisture content, %	0.1 max
Refractive index @ 23°C	1.4525-1.4545
Flash Point, closed cup	>200°F (>93.3°C)
Boiling Point @ 10 mm Hg, °C	164

Dioctyl Maleate is a reactive ester which may be copolymerized with other monomers such as styrene, vinyl acetate and acrylates providing elasticity and flexibility to the films. These internally plasticized copolymer films are not subject to embrittlement due to evaporation and are highly resistant to humidity and ultra-violet light.

### Applications:

- Comonomer in paints, paper, adhesives and textile coatings
- Intermediate for surfactants

### Health and Safety Information

The acute oral (rat) and dermal (rabbit) LD<sub>50</sub> values for DOM are greater than 10 ml/kg. No irritation of eyes and skin was observed in primary irritation studies in rabbits. The 4 hour LC<sub>50</sub> (rat) value is estimated to be greater than 2500 ppm. Direct contact with this material may cause minimal eye and skin irritation.

### TSCA Information

This product is manufactured in compliance with all provisions of the Toxic Substances Control Act, 15 U.S.C.

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