



TERGITOL™ ECO-36 Surfactant

Product Information

Chemical Description

Name: Castor Oil Ethoxylate

Surfactant Type: Nonionic

Benefits

- Superior emulsification
- Excellent dispersant
- Outstanding solubilization properties
- Effective lubricating agent
- Readily biodegradable
- Low aquatic toxicity

Applications

- Agrochemicals
- Oil, Gas & Mining
- Textile & Leather processing
- Pulp & Paper
- Inks, Coatings & Adhesives
- Household, Industrial and Institutional Cleaning
- Lubricants & Metalworking

Typical Physical Properties

Cloud Point ⁽¹⁾	80
HLB ⁽²⁾	13.0
Moles EO	36
Saponification Value, mg KOH/g	74
Pour Point	12
Form ⁽³⁾	liquid
pH, 10% aq solution	6.5
Viscosity at 40°C (104°F), cSt	290
Density at 40°C (104°F), g/mL	1.039
Flash Pt, Closed-Cup, ASTM D93	> 268°C

⁽¹⁾ Cloud point: °C, 10% Aqueous, ⁽²⁾ HLB Range: <10 w/o emulsifier, > 10 o/w emulsifier, ⁽³⁾ Form at 25°C

Typical Performance Properties

CMC ⁽⁴⁾	50
Surface Tension ⁽⁵⁾	40
Foam Height ⁽⁶⁾	60 / 50

⁽⁴⁾ Critical Micelle Concentration: ppm at 25°C, ⁽⁵⁾ Surface tension: dynes/cm at 1% actives, 25°C, ⁽⁶⁾ Ross-Miles foam height: mm at 0.1 wt% actives, 25°C, initial / 5 minute

Solubility and Compatibility

- Soluble in water
- Soluble in most polar & non-polar solvents & oils
- Chemically stable in the presence of dilute acids, bases, & salts
- Compatible with soaps, anionic & cationic surfactants, and many organic solvents

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