



**Crop  
Defense**

# TERGITOL™ ECO Surfactants

## Unlock the Power of Your Formulation

Delivering powerful emulsification performance in pesticide formulations, helping formulators to achieve the desired appearance & stability in their most advanced products



### Introducing TERGITOL™ ECO Surfactants

TERGITOL™ ECO Surfactants are readily biodegradable castor oil alkoxyates with differing degrees of ethoxylation and are recommended non-ionic emulsifiers for Emulsifiable Concentrate (EC) and Micro-Emulsion (ME) formulations to help formulators achieve the desired stability with their most advanced products. Additionally, TERGITOL™ ECO Surfactants are excellent emulsifiers for adjuvants.

#### Performance Properties

	TERGITOL™ ECO-20	TERGITOL™ ECO-36	TERGITOL™ ECO-40
CMC <sup>(1)</sup>	56	44	50
Surface Tension <sup>(2)</sup>	40	40	40
Foam Height <sup>(3)</sup>	50/25	60/50	60/55

<sup>(1)</sup>Critical Micelle Concentration: ppm at 25°C, <sup>(2)</sup>Surface tension: dynes/cm at 1% actives, 25°C, <sup>(3)</sup>Ross-Miles foam height: mm at 0.1 wt.% actives, 25°C, initial / 5 minute. Note: These properties are typical but should not be construed as specifications.

#### Chemistry

- Initiator: Naturally derived renewable carbon hydrophobe - Castor Oil (CO)
- Oxide: Ethylene Oxide (EO)
- Dow can vary the polymer architecture according to customer requests and application needs

#### Functions

- Oil/Water emulsifier
- Oil Adjuvant emulsifier

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#### Guideline Formulation for Emulsifiable Concentrate

Product	Function	Weight %
2,4D 2-ethylhexyl ester <sup>(4)</sup>	Active	72.9
Aromatic #200 <sup>(4)</sup>	Solvent	17.1
TERGITOL™ ECO Surfactant <sup>(5)</sup>	Non-ionic Emulsifier	5.0
CaDDBSA <sup>(4)(6)</sup> , 70% in iso-butanol solvent	Anionic Emulsifier	5.0

<sup>(4)</sup>Products not marketed by The Dow Chemical Company

<sup>(5)</sup>TERGITOL™ ECO-20, ECO-36 and ECO-40 have shown to provide stable emulsification to the proposed formulation

<sup>(6)</sup>Calcium dodecylbenzenesulfonate

#### Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

#### Customer Notice

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