



## TERGITOL™ 15-S-20 (80%) Surfactant

### Nonionic Secondary Alcohol Ethoxylate

#### Benefits

- Excellent emulsion stabilizer with low reactor residue
- Provides freeze/thaw & ionic stability
- Good handling properties
- High HLB emulsifier & dispersant
- Electrolyte solubility
- High temperature wetting

#### Applications

- Emulsion polymerization
- Paper & textile processing
- Solid cleaners

#### Typical Physical Properties

These properties are typical but do not constitute specifications.

Actives, wt%	100
Cloud Point <sup>1</sup>	>100
HLB <sup>2</sup>	16.3
Moles EO	20
Pour Point <sup>3</sup>	35
Appearance	White solid
pH, 1% aq solution	6.6
Viscosity at 25°C (77°F), cP	49
Density at 20°C (68°F), g/mL	1.038
Flash Pt, Closed Cup, ASTM D93	232°C 450°F

<sup>1</sup> Cloud point: °C, 1 wt% actives aqueous solution

<sup>2</sup> HLB Range: <10 w/o emulsifier, > 10 o/w emulsifier, 10-15 good wetting, 12-15 detergents

<sup>3</sup> Pour point: °C

#### Typical Performance Properties

These properties are typical but do not constitute specifications.

CMC <sup>4</sup>	315
Surface Tension <sup>5</sup>	38
Foam Height <sup>6</sup>	112/42

<sup>4</sup> Critical Micelle Concentration: ppm at 25°C

<sup>5</sup> Surface Tension: dynes/cm at 1% actives, 25°C

<sup>6</sup> Ross-Miles foam height: mmat 0.1 wt% actives, 25°C, initial / 5 minute

## Solubility and Compatibility

- Soluble in water
- Soluble in chlorinated solvents and polar organic solvents
- Chemically stable in the presence of dilute acids, bases, and salts
- Compatible with anionic, cationic, and other nonionic surfactants

## Safe Handling Information

The Dow Chemical Company Material Safety Data Sheets (MSDS) contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products. Under the OSHA Hazard Communication Standard, workers must have access to and understand MSDS on all hazardous substances to which they are exposed. Thus, it is important that you provide appropriate training and information to your employees and make sure they have available to them MSDS on any hazardous products in their workplace.

The Dow Chemical Company sends MSDS on non-OSHA-hazardous as well as OSHA-hazardous products to its customers upon initial shipment, including samples. If you do not have access to one of these MSDS, please contact your local Dow representative for a copy.

Updated MSDS are sent upon revision to all customers of record. In addition, MSDS are sent annually to all customers receiving products deemed hazardous under the Superfund Amendments and Reauthorization Act.

MSDS should be obtained from suppliers of other materials recommended in this bulletin.

The Dow Chemical Company is a member of the American Chemistry Council and is committed to ACC's Responsible Care® Program.

Notice: No freedom from any patent owned by Dow or others is to be inferred. Dow assumes no obligation or liability for the information in this document. The information provided herein is presented in good faith and is based on the best of Dow's knowledge, information, and belief. Since use conditions at non-Dow facilities are beyond Dow's control and government requirements may differ from one location to another and may change with time, it is solely the Buyer's responsibility to determine whether Dow's products are appropriate for the Buyer's use, and to assure the Buyer's workplace, use, and disposal practices are in compliance with applicable government requirements. Consequently, Dow assumes no obligation or liability for use of these materials and makes no warranty, express or implied. The user of the information provided is solely responsible for compliance with any applicable government requirements. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

---

TERGITOL™ is a trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow. The suggestions and data in this document are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. The prospective user is responsible for determining whether our products and the information in this document are appropriate for your use, and for ensuring your workplace and disposal practices are in compliance with applicable laws and other governmental requirements.

Suggestions for uses of our products, or the inclusion of descriptive material from patents and the citation of specific patents in this document, should not be understood as recommending the use of our products in violation of any patent, or as permission or license to use any patents of Dow or an affiliated company of Dow.



®™\* Trademark of The Dow Chemical Company ("Dow")  
or an affiliated company of Dow

119-01943-1107  
November 2009