

Technical Data Sheet

Surfadol 541 H

Introduction

Surfadol 541 Surfactant is a nonionic acetylenic diol molecule, which have a central hydrophilic moiety blocked by two hydrophobic ends.

Surfadol 541 is a white, waxy solid at room temperature but is also supplied in various solvent carriers for convenience and ease of use.

Performance Data

Surfadol 541 Surfactant provide a unique combination of performance benefits to a wide array of waterborne formulations including surface tension reduction, excellent wetting over low energy surfaces and foam control. Typical use levels range from 0.25% wt. to 2.0% on total formula weight.

Surface tension data for Surfadol 541 in water is:

Equilibrium Surface tension (0.1%wt. at 25°C) = 33 dynes/cm.

Dynamic Surface tension (0.1%wt. at 25°C, 6b/s) = 36 dynes/cm.

Technical Data

Composition	75%wt.TMDD+25%wt. Ethylene Glycol
Sp. Gravity (at 21°C)	0.945-0.950
Viscosity (cps at 25°C)	>150
Boiling Point, °C	>199
Flash Point, °C	>110
Freeze Point, °C	10
Vapor Pressure, mmHg at 21 °C	<1.0

Additionally, all the blended Surfadol 541 Surfactants have:

Light yellowish color and are nonionic and liquid in form at normal temperature.

HLB of approximately 4.

Freezing Point: Some solvent blends of Surfadol 541 may crystallize at low temperatures. If the product crystallizes when exposed to cold or phase separates over time, mix well and heat to 38-40°C before use for best results.

Solubility: Surfadol 541 is soluble in most polar organic solvents.

Stability: Surfadol 541 has thermal stability over a wide temperature range. Avoid compounding with strong oxidizing or reducing agents or caustic (pH>12) formulations. It is generally chemically stable at pH ranging from 3 to 12.