

Technical information

SURFADOL

Chemical name:	2,4,7,9-tetramethyl-dec-5-yl-4,7-diol	Synonyms:	None
CAS number:	126-86-3	EINECS number:	204-809-1
Formula:	C ₁₄ H ₂₆ O ₂	Molecular Weight:	226
HTS number:	29053930	TSCA	

SPECIFICATION (See reverse side)

PROPERTIES

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^o C before use for best results.

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

Toxicity data: Surfadol 541 has several FDA and EPA clearances due to its low degree of toxicity.
See MSDS for specific handling and safety information.

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.

PACKING Standard 55 gallon steel drums with 180 kg net

PERFORMANCE DATA

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

Surface tension data for Surfadol 541 in water:

Equilibrium surface tension (0.1% wt at 25^o C) = 33 dynes/cm

Dynamic surface tension (0.1% wt at 25^o C, 6b/s) = 36 dynes/cm

APPLICATIONS

- Surfadol 541 Surfactant is a nonionic acetylenic diol molecule, consisting of a central hydrophilic moiety blocked by two hydrophobic ends.
Its main use is as a wetting agent and defoamer in (water-borne) coatings, inks and adhesives, textile dyeing and dipping fluids.

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SPECIFICATION

Surfadol 541 is a white, waxy solid at room temperature; it is also supplied as a solution in various carriers for convenience of use.

	<u>Surfadol 541H</u>	<u>Surfadol 541E</u>	<u>Surfadol 541PA</u>	<u>Surfadol 541PG</u>
Composition	75% wt TMD / 25% wt Ethylene glycol	50% wt TMD / 50% wt Ethylene glycol	50% wt TMD / 50% wt Isopropyl alcohol	50% wt TMD / 50% wt Propylene glycol
Sp. Gravity (at 21 ^o C)	0.95	1.00	0.84	0.96
Viscosity (cPs at 25 ^o C)	150	100	100	200
Boiling point ^o C	>198	>198	80	>149
Flash point ^o C	>110	>110	12	>93
Freezing point ^o C	12	<0	-40	-16

Additionally all the blended Surfadol 541 Surfactants have:

- A light yellowish color and are nonionic and liquid in form at normal temperature.
- HLB of approximately 4.
- FDA compliance.