



Acetylenic diols additives for water-based formulations

www.coating-additive.com

Company Introduction

Founded by Mr. John Sun in September 2004, Chongqing ACME Tech. Co., Ltd. (ACME) has been focusing on R&D, production and sales of acetylenic diols based additives.

ACME offers a broad product range and strong technical support for coatings, inks and adhesive applications. Our portfolio includes high-performance surfactants, defoamers and other additives. We deliver improvements to key functionalities such as substrate wetting, foam control and pigment dispersion.

Key benefits of wetting additives include superior wetting and low dynamic surface tension, which enable high-speed application and mechanical stability.

At ACME, we enable manufacturers to convert solvent-borne systems to waterborne formulations that meet demanding industry regulations. We offer a growing line of APEO-free, low-VOC additives that meet the most challenging sustainability and performance requirements facing the industry today.

All acetylenic diols are produced by our sister company, Chongqing Surfadol New Material Co., Ltd, which was also founded by Mr. Sun. Having passed ISO9001 certification, the factory can produce maximum 2,500 tons acetylenic diols per year. All products have been sold by ACME in more than 50 countries and regions. (See more: www.coating-additive.com)

Product Catalog

Surfadol additives based on 2,4,7,9-Tetramethyldec-5-yne-4,7-diol

ACME's product group: Surfadol 541 series

CAS No.: 126-86-3; EC No.: 204-809-1

Chemical name: 2,4,7,9-Tetramethyldec-5-yne-4,7-diol

Function: wetting, defoaming, dispersing agents in water-based systems.

Surfadol 541

the 100% active solid

Surfadol 541A, 541BC, 541D, 541DPM, 541E, 541PA, 541PG

50% Surfadol 541 in alcohols or ethers

Surfadol 541H

75% Surfadol 541 in ethylene glycol

Surfadol 541S

Surfadol 541 in powder form

ACME's product group: Surfadol 400 series

CAS No.: 9014-85-1; EC No.: 500-022-5

Chemical name: 2,4,7,9-Tetramethyldec-5-yne-4,7-diol, ethoxylated

Function: low-foam wetting agents for water-based systems.

Surfadol 420, 440, 465

100% active yellow liquid

Surfadol 485

100% active yellow paste or liquid

Surfadol 485W

75% Surfadol 485 in water

Surfadol DF-75

100% active yellow liquid

Ethoxylated propoxylated 2,4,7,9-Tetramethyldec-5-yne-4,7-diol; CAS No.: 182211-02-5

Surfadol 2502

100% active yellow liquid

All these products are available globally.

Product Catalog

Surfadol additives based on 2,5,8,11-Tetramethyldodec-6-yne-5,8-diol

ACME's product group: Surfadol 500 series
CAS No.: 68227-33-8; EC No.: 269-348-0
Chemical name: 2,5,8,11-Tetramethyldodec-6-yne-5,8-diol
Function: molecular defoamers for water-based systems.

Surfadol 510	the 100% active solid
Surfadol 532	32% Surfadol 510 in alcohol
Surfadol 550BC, 550D, 550PG	50% Surfadol 510 in alcohols or ethers

ACME's product group: Surfadol 600 series
CAS No.: 169117-72-0; EC No.: 605-540-6
Chemical name: 2,5,8,11-Tetramethyldodec-6-yne-5,8-diol ethoxylate
Function: super wetting agents for water-based systems.

Surfadol 604, 607, 610	100% active yellow liquid
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Other Surfadol additives based on acetylenic diols

ACME's product group: Surfadol 330 series
Chemical name: blend of acetylenic diols and other surfactants
Function: wetting and dispersing agents in water-based systems.

Surfadol 331, 333	APEO containing
Surfadol 332, 334	APEO-free version of Surfadol 331/333
Surfadol 336, 338	APEO-free



Application Areas

Surfadol products improve wettability, control foam, and further improve dispersion ability in waterborne systems.

Major beneficial effects	Wettability, permeability, moistening, anti-foaming, microfoam removal, dispersion, dispersion stabilization, leveling, smoothness, adherence, viscosity stability, storage stability, colorability, color development, water resistance, recoatability, emulsifying, anti-foaming during pigment grinding and let-down
Paints	Wood paints, automotive topcoats, concrete paints, coil coating, paint for plastics, roof paints, can paints, electronic component paints, anti-corrosive paints for industrial use, aerospace paints, road paints, DIY (household) paints, powder paints, paint base coats (primers), architectural paints, electrodeposition paints, leather paints, fluorescent paints, film coatings, floor polish, various waterborne paints
Inks	Flexographic ink, flexographic ink for cardboard boxes, flexographic ink for newspapers, flexographic paper packaging, flexographic film packaging, flexible packaging film, dampening solution, overprint varnish, inkjet ink, gravure ink, gravure ink for packaging, gravure ink for publications, various waterborne inks
Adhesives	Pressure-sensitive adhesive, laminating adhesive for soft packaging, carpet, plywood curtain coating, adhesive for woodworking, adhesive (for tape and labels), various waterborne adhesives
Paper making	Inkjet paper, heat-sensitive paper, pressure-sensitive paper, art paper, coated paper, nonwoven fabric manufacturing, various coated printing papers
Pigments	Pigment composition, pigment manufacturing, pigment dispersion
Dyes	Dye synthesis, dye manufacturing, dye dispersion, dyeing
Metal surface treatment	Electroplating, electroplating brightening agents, corrosion inhibitors, various ingredients for plating
Detergents	Metal cleaning, electronic component cleaning, printed circuit board cleaning, silicone wafer cleaning, floor polish remover, various detergents
Agricultural chemicals	Herbicides, adjuvants, insecticides, various agricultural chemicals
Emulsions	Emulsion polymerizations, emulsion composition, latex dipping, various resin emulsions
Specific applications for other industrial fields	Metal working fluid, cutting fluid, casting, intermediates in chemical synthesis, oil refining, ceramics dispersion, concrete admixture, PVA anti-foaming, fiber processing

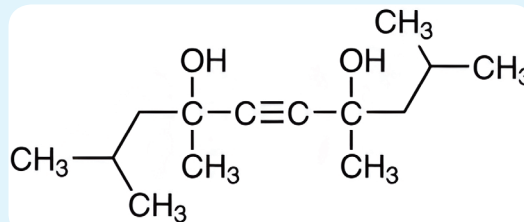
SURFADOL 541 Anti-foam Wetting Agent

As a typical gemini surfactant, Surfadol 541 provides multifunctional properties such as dynamic surface tension reduction, foam control, water sensitivity reduction, and viscosity stabilization.

Available in solid, liquid or powder form, Surfadol 541 is widely used as wetting agent or anti-foaming agent in waterborne coatings such as electro-deposit coatings, industrial coatings, as well as water-based inks such as gravure inks, flexo inks and inkjet inks.

The unique product can prevent surface defect problems such as fisheyes, crawling, and cratering on low-energy substrates, compared to fluorosurfactant or silicone surfactants.

Surfadol 541 surfactant contains no added alkylphenol ethoxylates (APEOs) or hazardous air pollutants (HAPs), and meets FDA compliance 21CFR 170.105, 170.300. It has been approved by global leading coatings producers, and exported to more than 30 countries.



CAS Number: 126-86-3

EINECS Number: 204-809-1

Chemical Name:

2,4,7,9-Tetramethyl-5-decyne-4,7-diol

Synonyms: TMDD;

Appearance: white waxy solid

APHA Color (Pt-Co): ~150

Active Content: 100%

Molecular Formula: C₁₄H₂₆O₂

Molecular Weight: 226.36

Melting Point: 52-56 °C

Boiling Point: >262 °C

Density: 0.89 g/cm³

HLB Value: 4

Dynamic Surface Tension (0.1% w.t., 6 b/s):
38dynes/cm

Usage: 0.1%-1.5% w.t.

Shelf Life: 48 months

Production Capacity: 2000 MT/yr





SURFADOL 541 Series of Anti-foam Wetting Agents

[Chemical Composition]

Acetylenic Diol: 2,4,7,9-Tetramethyldec-5-yne-4,7-diol
CAS No. 126-86-3

[Features and Benefits]

Designed for water-based formulations
Low equilibrium and dynamic surface tension, good foam control
Improves wetting on various substrates
Low water sensitivity
Free of silicones or alkylphenol ethoxylates (APEOs), non-toxic
Comply with FDA 21 CFR 175.105, 175.300 and China GB 9685-2016

[Applications]

Industrial coatings, automotive OEM paints, wood coatings, cathodic electrophoretic paints, PTFE coatings, flexographic inks, inkjet inks, over print vanishes, electroplating solutions, flux, dyes synthesis

Item	Appearance	Solvent/Carrier	Active Content	Equilibrium Surface Tension (0.1%, 1b/s), dynes/cm	Dynamic Surface Tension (0.1%, 6b/s), dynes/cm
SURFADOL 541	White Waxy Solid	/	100%	36.7	38.0
SURFADOL 541A	Light Yellow Liquid	2-ethylhexanol	50%	39.9	42.9
SURFADOL 541BC		Butyl Cellosolve	50%	42.0	43.9
SURFADOL 541D		Diethylene Glycol	50%	41.1	42.0
SURFADOL 541DPM		Dipropylene Glycol Monomethyl Ether	50%	40.5	43.7
SURFADOL 541E		Ethylene Glycol	50%	39.9	40.9
SURFADOL 541H		Ethylene Glycol	75%	40.6	40.9
SURFADOL 541PA		Isopropanol	50%	39.6	41.3
SURFADOL 541PG		Propylene Glycol	50%	41.9	42.9
SURFADOL 541S		White Powder	Amorphous Silica	42.5%	/

[Recommended Usage]

0.1-1.5% of total formulation weight

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

[Incorporation and Processing Instructions]

Addition to the coating as supplied or as a predilution is possible.
Can be introduced in the grind and let-down stage.

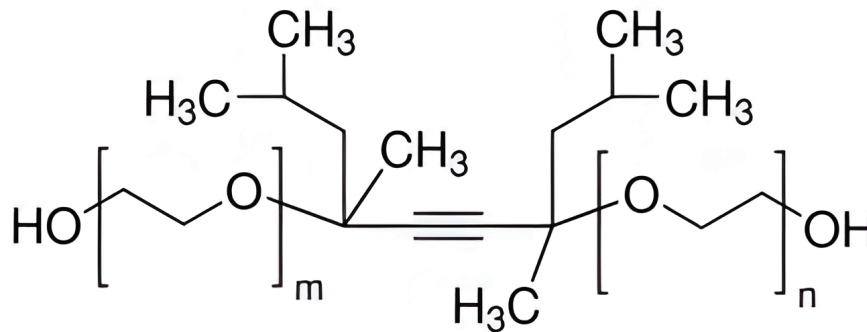
[Package and Storage]

Surfadol additives can be supplied in various packages, please refer to the TDS or ask a salesperson.

Keep containers tightly closed in a dry, cool, and well-ventilated place.

When stored in an original unopened packaging, the product has a shelf life of 48 months from the date of manufacture.

SURFADOL 420 Nonionic Wetting Agent



$m+n$ =number of moles of ethylene oxide

Adding ethylene oxide (EO) to Surfadol 541 surfactant increases the hydrophilic nature of the product, modifying its water solubility, wetting and defoaming characteristics. Depending on the ethylene oxide level, Surfadol 400 series surfactants function as low-foaming, nonfoaming or defoaming wetting agents in a variety of applications as below.

- Waterborne Industrial Coatings
- Waterborne Internal Can Coatings
- Printing Inks
- Pressure-Sensitive Adhesives
- Paper Coatings
- Metalworking Lubricants
- Agricultural Chemicals

Surfadol 420 surfactant (1.3mol EO) provides good wetting under dynamic conditions while controlling or eliminating foam. It can be used in conjunction with conventional defoamers to obtain the desired foam control while minimizing the fisheyes and pinholes caused by many defoamers.

CAS Number: 9014-85-1

EINECS Number: 500-022-5

Chemical Name:

2,4,7,9-Tetramethyl-5-decyne-4,7-diol, ethoxylated

Appearance: light yellow liquid

APHA Color (Pt-Co): ~250

Active Content: 100%

Molecular Formula: $(C_2H_4O)_m.C_{14}H_{26}O_2.(C_2H_4O)_n$

Boiling Point: > 121 °C

Density: 0.94 g/cm³

pH (1% aqueous solution): 6-8

Viscosity @ 20°C, cps: <250

HLB Value: 4

Dynamic Surface Tension (0.1% w.t., 6 b/s) : 33.6 dynes/cm

Usage: 0.1%-1.5% w.t.

Shelf Life: 48 months





SURFADOL 400 Series of Low Foam Wetting Agents

[Chemical Composition]

Ethoxylated Acetylenic Diol: 2,4,7,9-Tetramethyldec-5-yne-4,7-diol, ethoxylated
CAS No. 9014-85-1

[Features and Benefits]

Designed for water-based formulations
Low-foam dynamic surface tension reduction
Improves wetting of low-energy or contaminated substrates
Enhances rapid penetration of absorbent substrates
Increases hydrophilicity and solubility
APEO free, solvent free, non-toxic
Comply with FDA 21 CFR 175.105, 175.300, 176.170, 176.180 and China GB 9685-2016

[Applications]

Industrial coatings, automotive OEM paints, wood coatings, PTFE coatings, paper coatings, pla coatings, photogravure inks, inkjet inks, fountain solutions, over print vanishes, pressure sensitive adhesives, compound adhesives, laminating adhesives, metalworking fluids, electroplating solutio latex dipping, emulsions, agrochemicals

[Typical Properties]

Item	Appearance	HLB	Active Content	Solubility	Equilibrium Surface Tension (0.1%, 1b/s), dynes/cm	Dynamic Surface Tension (0.1%, 6b/s), dynes/cm
SURFADOL 420	Light Yellow Liquid	4	100%	Slightly Soluble	33.0	33.6
SURFADOL 440	Light Yellow Liquid	8	100%	Slightly Soluble	34.4	36.0
SURFADOL 465	Light Yellow Liquid	13	100%	Soluble	42.5	44.6
SURFADOL 485	Yellow Paste/ Liquid	17	100%	Soluble	54.2	55.7
SURFADOL 485W	Light Yellow Liquid	17	75%	Soluble	54.2	55.7
SURFADOL 2502	Light Yellow Liquid	7.8	100%	Slightly Soluble	36.1	38.0
SURFADOL DF-75	Light Yellow Liquid	/	100%	Slightly Soluble	-	-

[Recommended Usage]

0.1-2.0% of total formulation weight

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

[Incorporation and Processing Instructions]

Addition to the coating as supplied or as a predilution is possible.

Can be introduced in the grind and let-down stage.

[Package and Storage]

Surfadol additives can be supplied in various packages, please refer to the TDS or ask a salesperson.

Keep containers tightly closed in a dry, cool, and well-ventilated place.

When stored in an original unopened packaging, the product has a shelf life of 48 months from the date of manufacture.

SURFADOL 500 Series Molecular Defoamers

[Chemical Composition]

Acetylenic Diol: 2,5,8,11-Tetramethyl-6-dodecyne-5,8-diol
CAS No. 68227-33-8

[Features and Benefits]

Designed for water-based systems
Efficient knockdown defoaming, without causing surface defects
Control of foam created and stabilized by other surface active agents
Good compatibilities
Long-lasting foam control, effective against microfoam
Excellent shelf life stability over a wide range of physical conditions
APEO free, silicone free, non-toxic

[Applications]

Wood coatings, automotive OEM and refinish coatings, inkjet inks, fountain solutions, overprint vanishes, electroplating solutions, latex dipping, dye and pigment synthesis, pigment grinding, metalworking fluids

[Typical Properties]

Item	Appearance	Active Ingredient Content	Solvent	Solubility
SURFADOL 510	White Waxy Solid	100%	-	Insoluble
SURFADOL 532	Light Yellow Liquid	32%	Dipropylene glycol	
SURFADOL 550BC		50%	Butyl cellosolve	
SURFADOL 550D		50%	2-Ethylhexanol	
SURFADOL 550PG		50%	Propylene glycol	

[Recommended Usage]

0.1-1.5% of total formulation weight

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

[Incorporation and Processing Instructions]

Addition to the coating as supplied or as a predilution is possible.

Can be introduced in the grind and let-down stage.

[Package and Storage]

Surfadol additives can be supplied in various packages, please refer to the TDS or ask a salesperson.

Keep containers tightly closed in a dry, cool, and well-ventilated place.

When stored in an original unopened packaging, the product has a shelf life of 48 months from the date of manufacture.



SURFADOL 600 Series Super Wetting Agents

[Chemical Composition]

Ethoxylated Acetylenic Diol: 2,5,8,11-Tetramethyldodec-6-yne-5,8-diol ethoxylate
CAS No.: 169117-72-0

[Features and Benefits]

Designed for water-based systems
Low-foam dynamic surface tension reduction
Special for low-energy or contaminated substrates
Enhances rapid penetration of absorbent substrates
Increases hydrophilicity and solubility
Silicon free, mineral oil free
APEO free, solvent free, non-toxic

[Applications]

Industrial coatings, automotive OEM paints, wood coatings, PTFE coatings, paper coatings, plastic coatings, photogravure inks, inkjet inks, fountain solutions, over print vanishes, pressure sensitive adhesives, compound adhesives, laminating adhesives, metalworking fluids, electroplating solutions, flux, latex dipping, emulsions, agrochemicals.

[Typical Properties]

Item	SURFADOL 604	SURFADOL 607	SURFADOL 610
Appearance	Light Yellow Liquid		
APHA Color (Pt -Co)	<350	<350	<350
Active Ingredient Content	100%	100%	100%
Cloud Point (5%),C	64 (ether solution)	68 (ether solution)	37 (water solution)
Water solubility	Slightly Soluble	Self-dispersing	Soluble
Equilibrium Surface Tension(0.1%, 1b/s), dynes/cm	26.4	27.5	27.1
Dynamic Surface Tension(0.1%, 6b/s), dynes/cm	29.0	31.4	28.7

[Recommended Usage]

0.1-1.0% of total formulation weight

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

[Incorporation and Processing Instructions]

Addition to the coating as supplied or as a predilution is possible.

Can be introduced in the grind and let-down stage.

[Package and Storage]

Surfadol additives can be supplied in various packages, please refer to the TDS or ask a salesperson.

Keep containers tightly closed in a dry, cool, and well-ventilated place.

When stored in an original unopened packaging, the product has a shelf life of 48 months from the date of manufacture.

SURFADOL 330 Series of Wetting And Dispersing Agents

[Chemical Composition]

Blend of Acetylenic Diol and other surfactants

[Features and Benefits]

Designed for water-based formulations

Multi-functional: wetting and dispersing agent, pigment grind aid

Low equilibrium and dynamic surface tension, good foam control Suitable for addition to the grind stage, also effective in clear systems

Silicone-free, non-toxic, APEO-free

Surfadol 336 is particularly developed for organic pigment systems

Surfadol 338 combines performance benefits of noionic and anionic surfactants

[Typical Properties]

Item	Appearance	HLB	Active Content	Applications	Recommended Usage
SURFADOL 331 (contains APEO)	Light Yellow Liquid	8-11	80%	Oleophilic pigments basecoat paste water-based ink	1-3% wt.
SURFADOL 333 (contains APEO)		11-20	90%	Inorganic pigments organic pigments toning primers, e.g. white primer water-based inks dyes	1-5% wt.
SURFADOL 332 (APEO-free version of Surfadol 331)		8-11	80%	Oleophilic pigments basecoat paste water-based ink	1-3% wt.
SURFADOL 334 (APEO-free version of Surfadol 333)		11-20	90%	Inorganic pigments organic pigments toning primers, e.g. white primer water-based inks dyes	1-5% wt.
SURFADOL 336 (APEO free)		13	80%	Organic pigment	1-6% wt.
SURFADOL 338 (APEO free)		8-20	86%	Hydrophilic pigments, e.g. iron oxide pigments or titanium dioxide dyes	1-8% wt.

[Recommended Usage]

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

[Incorporation and Processing Instructions]

Addition to the coating as supplied or as a predilution is possible.

Can be introduced in the grind and let-down stage.

[Package and Storage]

Surfadol additives can be supplied in various packages, please refer to the TDS or ask a salesperson.

Keep containers tightly closed in a dry, cool, and well-ventilated place.

When stored in an original unopened packaging, the product has a shelf life of 24 months from the date of manufacture.



New Surfadol Additives

[SURFADOL FS-85]

Nonionic defoaming & wetting agent with emulsification properties.
Designed for fountain solutions and adhesives.

[Typical Properties]

Item	Result
Appearance	Light Yellow Liquid
Active Ingredient Content	90%
Cloud Point °C	46
Equilibrium surface tension(0.1%, 25°C , dynes/cm)	28.6
Dynamic surface tension(0.1%, 25°C , 6b/s, dynes/cm)	31.6

[SURFADOL TG/LG]

Low-foaming, non-ionic wetting agent.
Grind aid for pigment and substrate wetting in aqueous systems, latex rubbers.
Good reduction of surface tension, greater color development, reduced pigment “cut-in” time.

[Typical Properties]

Item	Result
Appearance	Light Yellow Liquid
Active Ingredient Content	84%
Solubility in water	Soluble
Dynamic surface tension(0.1%, 25°C , 6b/s, dynes/cm)	35.0

[SURFADOL SE-F]

Nonionic self-emulsifiable surfactant that will reduce surface tension and control foam.
Suitable for water based printing inks, varnish, pressure sensitive adhesives
Suitable for food contact compliant formulations.

[Typical Properties]

Chemical description	Acetylenic diols
Appearance	Light Yellow Liquid
Active matter content	80%
Solubility in water	Soluble
Equilibrium Surface Tension (0.1%,1b/s)	31.7
Dynamic Surface Tesion (0.1%,6b/s)	33.1

Surfadol Additives for Coatings and Paints

		Multifunctional	Architectural	Industrial and maintenance	Automotive	Specialty paper	Plastic	Wood	Powder
Wetting	Molecular defoamers	Surfadol 541 *	•	•	•	•	•	•	•
		Surfadol 541E	•	•	•	•	•	•	
		Surfadol 541H	•	•	•			•	
		Surfadol 541BC	•	•	•				
		Surfadol 510 *			•	•		•	
		Surfadol 532	•	○	○				
		Surfadol 550BC	•			•		○	○
		Surfadol DF-75			○	•	•		•
		Surfadol 420	•	•	•	•		•	
		Surfadol 440	○	•	•	○	•	○	•
	Defoaming	Surfadol 465	○	•			•	○	
		Surfadol 485		•					
		Surfadol 485W							
		Surfadol FS-85							
		Surfadol 2502			○	•	•	○	○
	Superwetters	Surfadol 604		•			○		○
		Surfadol 607		•	•	•	•	○	○
	Grind Aids	Surfadol TG/LG		•					
		Surfadol SE-F		•				○	○
		Surfadol 331/332	•	•			○		•
Surfadol 333/334				○	•			•	
Surfadol 336		•	•	•	•			○	
Surfadol 338		○	•	•	•		•	•	



Surfadol Additives for Inks

		Multifunctional	Inks	Fountain Solution	Overprint Vanishes	Pigment Dispersion (Resinated)	Pigment Dispersion (Resin-Free)
Wetting	Molecular defoamers	Surfadol 541 *	●	○	○	○	○
		Surfadol 541E	●	○	○	○	○
		Surfadol 541H	●	○	○	○	○
		Surfadol 541BC	○	○	○	○	○
		Surfadol 510 *	○	●			
		Surfadol 532	○				
		Surfadol 550BC	○	●			
		Surfadol DF-75	●				
		Surfadol 420	●	●			
		Surfadol 440	●	●			
	Defoaming	Surfadol 465		●			
		Surfadol 485					
		Surfadol 485W					
		Surfadol FS-85					
		Surfadol 2502	●	●	●		
	Superwetters	Surfadol 604					
		Surfadol 607					
	Grind Aids	Surfadol TG/LG					
		Surfadol SE-F	●			●	●
		Surfadol 331/332				●	●
Surfadol 333/334					●	●	
Surfadol 336					●	●	
	Surfadol 338						

Surfadol Additives for Adhesive and Latex Dipping

		Multifunctional	Adhesive: Film and PSA	Adhesive: engineered lumber	Lamination adhesives	Latex dipping
Wetting	Molecular defoamers	Surfadol 541 *	○	●	○	
		Surfadol 541E		●		
		Surfadol 541H		●		
		Surfadol 541BC				
		Surfadol 510 *	○		○	
		Surfadol 532	○	○	○	
		Surfadol 550BC	○		○	
		Surfadol DF-75				
		Surfadol 420	●			
		Surfadol 440	●	●		○
	Defoaming	Surfadol 465				●
		Surfadol 485				●
		Surfadol 485W				
		Surfadol FS-85				
		Surfadol 2502	○	○		
	Superwetters	Surfadol 604				
		Surfadol 607	●	○		
	Grind Aids	Surfadol TG/LG				
		Surfadol SE-F	○	●	○	
		Surfadol 331/332				
Surfadol 333/334						
Surfadol 336						
Surfadol 338						



Equivalent Table

ACME's Additives and Competitor Products

Product Name	Description	Equivalent	
Surfadol 541	Solid, nonionic surfactant and defoamer	S 104	
Surfadol 541A	Liquid, nonionic surfactant and defoamer	S 104 A	
Surfadol 541BC		S 104 BC	
Surfadol 541DPM		S 104 DPM	
Surfadol 541E		S 104 E	
Surfadol 541D *		S 104 E	
Surfadol 541H		S 104 H	
Surfadol 541PA		S 104 PA	
Surfadol 541PG		S 104 PG 50	
Surfadol 541S		Powder, nonionic surfactant and defoamer	S 104 S
Surfadol 420		Liquid, low-foam wetting agent	S 420
Surfadol 440	S 440		
Surfadol 465	Liquid, low-foam wetting agent, soluble in water	S 465	
Surfadol 485	Liquid/paste, wetting agent and emulsifier, soluble in water	S 485	
Surfadol 485W	Liquid, wetting agent and emulsifier, soluble in water	S 485W	
Surfadol 2502	Nonionic low-foam surfactant	S 2502	
Surfadol DF-75	Nonionic defoamer	S DF-75	

Equivalent Table

ACME's Additives and Competitor Products

Product Name	Description	Equivalent
Surfadol 510	Nonionic molecular defoamer	S 124; DF-110
Surfadol 518		DF-110L
Surfadol 520		DF-110C
Surfadol 532		DF-110D
Surfadol 550BC		DF-110BC
Surfadol 550D		DF-110BC
Surfadol 550PG		DF-110BC
Surfadol 604		Nonionic super wetting agent
Surfadol 607	D 607	
Surfadol TG	Wetting and dispersing agent	S TG
Surfadol FS-85	Nonionic low-foam wetting agent	S FS-85
Surfadol 560	Silicone-containing defoamer	T Foamex 843
Surfadol SE-F	Nonionic wetting agent	S SE-F
Surfadol PSA-660	Substrate wetting agent	S PSA 336
Surfadol 331/332	Wetting and dispersing agent	S CT-111, 121, 324
Surfadol 333/334		S CT-131, 136
Surfadol 336		S GA
Surfadol 338		S CT-171, 231



Equivalent Table

ACME's Additives and Competitor Products

Product Name	Description	Equivalent
Surfadiols 110	Solvent-based dispersant	BYK-110
Surfadiols 163		BYK-163
Surfadiols 180		BYK-180
Surfadiols P-104S		BYK-P104S
Surfadiols 190	Water-based dispersant	BYK-190; TEGO-750W
Surfadiols 755W		TEGO-755W
Surfadiols 760W		TEGO-760W
Surfadiols 9076	Solvent-based dispersant	BYK-9076
Surfadiols 206	Water-based defoamer	BASF-WBA; 8034A
Surfadiols 250		TEGO 902W
Surfadiols 1082	Levelling agent	BYK-333
Surfadiols 4901	Adhesion promoter	ETERKYD 4901-B-72
Surfadiols 200		Coatosil Mp200
Surfadiols 245	Wetting agent	TEGO-245
Surfadiols 270		TEGO-270; BYK-348
Surfadiols 346		BYK-346
Surfadiols 4100		TEGO-4100



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