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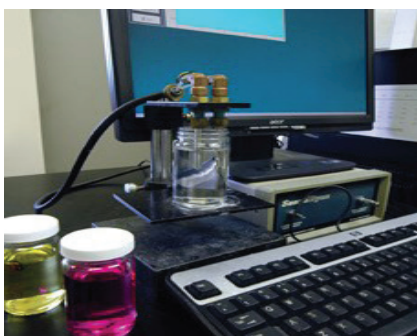
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## Surfactants



- Block Copolymers
- Ethoxylated Alcohols
- Alkoxyated Alcohols
- Ethoxylated Phenols
- Defoamers
- PEG and PPG
- Fatty Acid Diesters
- Fatty Acid Monoesters
- Tall Oil Ethoxylates
- Castors and Hydrogenated Castors
- Fatty Amine Ethoxylates
- Phosphate Esters
- Amides & Imidazolines
- Quaternary Compounds
- Sulfates & Sulfosuccinates
- Sorbitan Esters and Ethoxylates
- Functional Specialty Products

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# SURFACTANTS

Block Copolymers	3
Defoamers	3
Ethoxylated Alcohols	4
Alkoxyated Alcohols	4
Low Foam Surfactants	5
Ethoxylated Phenols	6
Tall Oil Ethoxylates	6
PEG and PPG	7
Fatty Acid Diesters	7
Fatty Acid Monoesters	8
Castors and Hydrogenated Castors	9
Fatty Amine Ethoxylates	10
Phosphate Esters	11
Amides & Imidazolines	12
Quaternary Compounds	12
Sulfates & Sulfosuccinates	13
Sorbitan Esters and Ethoxylates	14
Functional Specialty Products	15

## COMPANY OVERVIEW

PCC Chemax was founded in 1973 to develop specialty surfactant additives for specific markets and individual customer needs. We specialize in servicing the industrial compounders in Metalworking, Metal Finishing, Plastics, and Oil Field Industries. Our products are used as processing aids, property enhancers, and chemical additives in the manufacture of a wide variety of industrial products. As a service oriented company, we focus on product development and cooperative research with our customers. The research, product development, and laboratory personnel of our customers become our partners in the development of unique surfactant additives to meet their specific and specialized needs.

For over 30 years, our company has offered technical support, unequalled customer service, and dedication to each industry we serve. This product guide represents our line of traditional, reliable surfactants that are cost competitive and provide multifunctional attributes to every imaginable industrial sector. We hope the information presented here will assist you in your formulating needs. Please feel free to contact us for product recommendations or technical assistance.



Piedmont, SC



Duisburg, Germany

*Located in Piedmont, SC, our research labs are comprised of synthesis and application capabilities for each industry we serve.*

*In 2006, Chemax was acquired by PCC SE, headquartered in Duisburg, Germany. The acquisition connected our company with PCC Rokita, in Brzeg Dolny, Poland, whose alkoxylation capabilities enhance our global synergies to supply our customers around the world.*

*This brochure is offered as a starting point. It presents some of the more standard commercial products, many of which are currently maintained in inventory. Additions to the product line and potential variations of listed products make the information presented only representative. We invite your inquiries for specific requirements of related homologues. Please see our website for the most complete list of products and corresponding information.*

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# BLOCK POLYMERS

## PROPERTIES

Chemal alkoxyated block polymers are used as defoaming agents in the metalworking, cosmetic, paper and textile industries. They are also used for formulating mechanical dish washing detergents and rinse aids as well as formulating synthetic metalworking lubricants. The reverse block polymers (Chemal BP-3000 series) tend to exhibit lower foaming properties while maintaining functionality in formulated products.

Product	Molecular Weight	Form @25°C	Cloud Point (°C)	HLB	Defoamer	Wetting Agent	Emulsifier	Detergent	Anti streak/Rinse Aid
Chemal BP-235	1900	Liquid	77	18.5			■	■	
Chemal BP-261	2000	Liquid	24	3.0	■		■		
Chemal BP-261PO	2000	Liquid	24	3.0	■				
Chemal PB-262	2500	Liquid	30	7.0		■			■
Chemal BP-262PO	2500	Liquid	32	7.0		■			■
Chemal BP-262LF	2450	Liquid	28	6.5	■	■			■
Chemal BP-264	2900	Liquid	61	15.0			■		
Chemal BP-268	8350	Waxy Flake	>100	29.0					
Chemal BP-2101	3800	Liquid	15	1.0	■	■	■		
Chemal BP-2121	4400	Liquid	14	0.5	■	■			
Chemal BP-2122	5000	Liquid	19	4.0	■	■			
Chemal BP-3172	2100	Liquid	39	8.0	■				
Chemal BP-3174	2700	Liquid	47	16.0	■				
Chemal BP-3252	3120	Liquid	33	6.3	■	■		■	■
Chemal BP-3258	9000	Solid	80	30.3		■		■	■
Chemal BP-3311	3200	Liquid	25	1.7	■		■		

# DEFOAMERS

## PROPERTIES

Chemax silicone based defoamers are highly effective at extremely low use levels. These products are used in textiles, effluent treatment, commercial cleaning processes and metal cleaning.

Product	Form @25°C	Activity Formulas	Detergent	Inks	Paint Formulas	Starch Processing	Glues/Adhesives	Waste Water
Chemax DF-10	Opaque Liquid	10	■	■	■	■		
Chemax DF-10A	Opaque Liquid	10	■	■	■	■		
Chemax DF-30	Opaque Liquid	30	■		■	■	■	■
Chemax DF-100	Opaque Liquid	100	■	■	■		■	
Chemax DF-26	Powder	26	■			■		

Chemax organic defoamers are used in paper processing, metalworking and pre-paint applications where silicone systems cannot be tolerated.

Product	Form @25°C	Activity	Textiles	Paper	Metal Working	Waste Water	Cutting Fluids
Chemax DFO-133	Liquid	100	■	■			
Chemax DFO-155	Liquid	100	■	■	■		
Chemax DFO-389	Opaque Liquid	50	■	■		■	■

Chemal ethoxylated alcohols are excellent detergents, wetting agents, emulsifiers, dispersants, solubilizers and defoamers. These products are ideally suited for use in textile processing, metal cleaning, I&I formulations and household cleaning.

Product	Chemical Description	Form @25°C	Cloud Point (°C)	HLB	Defoamer	Wetting Agent	Detergent	Emulsifier
Chemal 11-3	POE (3) Linear Alcohol	Liquid	< 25	8.7	■	■		■
Chemal 11-5	POE (5) Linear Alcohol	Liquid	28	11.2	■	■	■	■
Chemal 11-7	POE (7) Linear Alcohol	Liquid	56	2.8	■	■	■	■
Chemal 11-9	POE (9) Linear Alcohol	Liquid	74	13.9		■	■	
Chemal 2EH-2	POE (2) 2-Ethylhexanol	Liquid	< 25	8.0	■	■		
Chemal 2EH-5	POE (5) 2-Ethylhexanol	Liquid	< 25	12.6	■	■		
Chemal BN-5	POE (5) Butanol	Liquid	< 100	N/A	■	■		
Chemal CSA-20	POE (20) Cetyl - Stearyl Alcohol	Solid	N/A	15.7			■	
Chemal CSA-10	POE (10) Cetyl - Stearyl Alcohol	Solid	N/A	12.6			■	■
Chemal DA-4	POE (4) Decyl Alcohol	Liquid	< 25	10.5	■	■		■
Chemal DA-6	POE (6) Decyl Alcohol	Liquid	41	12.4		■	■	■
Chemal DA-9	POE (9) Decyl Alcohol	Liquid	80	14.3		■	■	■
Chemal LA-4	POE (4) Lauryl Alcohol	Liquid	< 25	9.2	■	■		■
Chemal LA-9	POE (9) Lauryl Alcohol	Liquid	76	13.3	■	■	■	■
Chemal LA-12	POE (12) Lauryl Alcohol	Liquid	> 100	14.5	■	■	■	■
Chemal LA-23	POE (23) Lauryl Alcohol	Liquid	> 100	15.4		■	■	
Chemal OA-2	POE(2) Oleyl Alcohol	Liquid	< 25	4.9	■			■
Chemal OA-5	POE (5) Oleyl Alcohol	Liquid	< 25	7.9	■	■		
Chemal OA-9	POE (9) Oleyl Alcohol	Liquid	52	11.9	■	■		
Chemal OA-23/70	POE (20) Oleyl Alcohol - 70%	Liquid	> 100	15.3	■	■		
Chemal TDA-3	POE (3) Tridecyl Alcohol	Liquid	< 25	7.9			■	
Chemal TDA-6	POE (6) Tridecyl Alcohol	Liquid	< 25	11.4			■	
Chemal TDA-9	POE (9) Tridecyl Alcohol	Liquid	54	13.0	■	■		■
Chemal TDA-9/85	POE (9) Tridecyl Alcohol - 85%	Liquid	53	13.0		■	■	■
Chemal TDA-12	POE (12) Tridecyl Alcohol	Paste	70	14.5		■	■	■
Chemal TDA-15	POE (15) Tridecyl Alcohol	Solid	> 100	15.4		■	■	■
Chemal UDA-3	POE (3) Branched Alcohol	Liquid	< 25	8	■	■		■
Chemal UDA-5	POE (5) Branched Alcohol	Liquid	67 (butyl diglycol)	11	■	■	■	■
Chemal UDA-8	POE (8) Branched Alcohol	Liquid	63	14	■	■	■	■

*Chemal low foam surfactants provide wetting, detergency and defoaming properties in rinse aids, soak and spray cleaners in the I&I, metal cleaning and textile industries. These products contain both EO and PO providing outstanding wetting and detergency properties with minimal foam.*

Product	Chemical Description	Form @25°C	Cloud Point (°C)	Defoamer	Wetting Agent	Detergent	Emulsifier	Rinse Aid / Anti streak
Chemal DA-4P2	Branched Alcohol	Liquid	19	■	■			
Chemal DA-5P8	Branched Alcohol	Liquid	18	■	■			
Chemal LF-25B	Linear Alcohol	Liquid	25	■	■	■		
Chemal LF-40B	Linear Alcohol	Liquid	40	■	■	■		
Chemal LF-495	Linear Alcohol	Liquid	36	■	■	■		
Chemal LFE-35B	Linear Alcohol	Liquid	36	■	■	■		
Chemal LFL-17	Linear Alcohol	Liquid	17	■				■
Chemal LFL-19	Linear Alcohol	Liquid	19	■	■			■
Chemal LFL-28	Linear Alcohol	Liquid	28	■	■			■
Chemal LFL-28C	Linear Alcohol	Liquid	30	■	■			■
Chemal LFL-47	Linear Alcohol	Liquid	47	■	■	■		■
Chemax LFX-822N	Linear Alcohol	Liquid	14	■	■	■		
Chemal OC-9	Linear Alcohol	Liquid	62		■	■	■	
Chemal OC-10	Linear Alcohol	Liquid	72		■	■	■	
Chemal PS-1020E	Linear Alcohol	Liquid	42	■	■	■		
Chemal PS-1043E	Linear Alcohol	Liquid	< 25	■	■			■
Chemal TDA-6P3	Branched Alcohol	Liquid	28		■	■	■	

# ETHOXYLATED PHENOLS

## PROPERTIES

Chemax nonyl phenol and octyl phenol ethoxylates represent some of the most widely used chemistries in the cleaning and HI&I industry. With a broad range of solubilities, these products find utility in water, oil and solvent based applications. Functionality includes detergency, wetting and emulsification. These products are commonly used as chemical intermediates for phosphation and sulfation.

Product	Chemical Description	Form	Cloud Point (°C)	HLB
Chemax NP-1.5	POE (1.5) Nonyl Phenol	Liquid	< 25	4.6
Chemax NP-4	POE (4) Nonyl Phenol	Liquid	< 25	8.9
Chemax NP-6	POE (6) Nonyl Phenol	Liquid	< 25	10.9
Chemax NP-9	POE (9) Nonyl Phenol	Liquid	54	13
Chemax NP-15	POE (15) Nonyl Phenol	Paste	96	15.0
Chemax NP-20	POE (20) Nonyl Phenol	Solid	> 100	16.0
Chemax NP-40/70	POE (40) Nonyl Phenol - 70%	Liquid	>100	17.8
Chemax OP-10	POE (10) Octyl Phenol	Liquid	65	13.6

# TALL OIL ETHOXYLATES

## PROPERTIES

Chemax ethoxylated tall oils and rosin acids are used as emulsifiers and detergents in degreasers and neutral or mildly alkaline detergents.

Product	Form @25°C	Cloud Point (°C)	HLB	Detergent	Emulsifier	Lubricant	Solubility
Chemax TO-8	Liquid	< 25	10.5	■	■	■	WD
Chemax TO-10	Liquid	25	11.5	■	■	■	Water
Chemax TO-14	Liquid	NA	13.5	■	■	■	Water
Chemax TO-16	Liquid	70	13.4	■	■	■	Water
Chemax AR-497	Soft Paste	50 (IPA NaCl)	13.0	■	■	■	Water

WD: Water Dispersible

Chemax polyethylene and polypropylene glycols are used as emulsifiers in the textile and metal working industries. These products may also be used as viscosity modifiers and co-solubilizers.

Product	Molecular Weight	Form @25°C	Chemical Intermediate	Plasticizer	Lubricant	Softener	Mold Release Agent	Antifoam	Antistat
Chemax PEG-200	200	Liquid	■	■	■	■			■
Chemax PEG-400	400	Liquid	■	■	■	■			■
Chemax PEG-600	600	Liquid	■	■	■	■			■
Chemax PEG-1000	1000	Soft Solid	■		■				
Chemax PEG-3350	3350	White Solid			■		■		
Chemax PEG-4000	4000	Flake			■			■	
Chemax PPG-1000	1000	Liquid	■		■			■	
Chemax PPG-2000	2000	Liquid	■		■			■	

# FATTY ACID DIESTERS

Chemax polyethylene glycol fatty acid diesters are used as emulsifiers in lubricant, softener and defoamer formulations. These products are used in the agricultural, cosmetic, I&I, leather, metalworking and textile industries.

Product	Form @25°C	Sap. Number	HLB	Emulsifier	Lubricant	Release Agent	Softener	Solubilizer	Solubility
Chemax PEG-200DL	Liquid	180	6.5	■	■	■	■		Oil
Chemax PEG-400DL	Liquid	132	9.8	■	■	■	■		Oil
Chemax PEG-400DO	Liquid	116	8.8	■				■	Oil
Chemax PEG-600DO	Liquid	102	10.3	■				■	WD
Chemax PEG-200DT	Liquid	142	5.4	■				■	WD
Chemax PEG-400DT	Liquid	118	8.5	■				■	WD
Chemax PEG-600DT	Liquid	97	10.3	■				■	WD

WD: Water Dispersible



*Chemax ethoxylated fatty acids are used as emulsifiers and lubricant additives in metalworking, textile and cosmetic formulations. These chemistries also function as defoamers and viscosity control agents.*

Product	Chemical Description	Form @25°C	HLB	Emulsifier	Lubricant	Softener	Visc Control
Chemax E-200ML	POE (5) Monolaurate	Liquid	9.3	■	■		■
Chemax E-400ML	POE (9) Monolaurate	Liquid	13.2	■	■		
Chemax E-600ML	POE (14) Monolaurate	Liquid	14.8	■	■	■	
Chemax E-200MO	POE (5) Monooleate	Liquid	8.3	■	■	■	
Chemax E-400MO	POE (9) Monooleate	Liquid	11.8	■	■	■	■
Chemax E-600MO	POE (14) Monooleate	Liquid	13.6	■	■		
Chemax E-200MS	POE (5) Monostearate	Paste	8.5	■	■	■	
Chemax E-400MS	POE (9) Monostearate	Paste	12.0	■	■	■	
Chemax E-600MS	POE (14) Monostearate	Paste	13.8	■	■	■	
Chemax E-1000MS	POE (23) Monostearate	Solid	15.7	■	■	■	
Chemax E-175MS/ FLK	POE (40) Monostearate	Flake	16.9	■	■		
Chemax E-300MT	POE (7) Monotallate	Liquid	10.4	■	■	■	■
Chemax E-400MT	POE (9) Monotallate	Liquid	11.8	■	■	■	■
Chemax E-600MT	POE (14) Monotallate	Liquid	13.6	■	■	■	
Chemax I-9	POE (9) Monoisostearate	Liquid	11	■	■	■	



*Chemax ethoxylated castor and hydrogenated castor glycerides are versatile nonionic surfactants used as lubricant additives and emulsifiers for plastic, metal and textile applications. They also function as dispersants, rewetting agents, softeners and dyeing assistants for application in the leather and textile industries. The hydrogenated castor ethoxylates provide improved color stability and low odor.*

Product	Form @25°C	Sap. Number	HLB	Emulsifier	Lubricant	Softener	Dispersant
Chemax CO-5	Liquid	145	3.8	■			■
Chemax CO-16	Liquid	100	8.6		■		■
Chemax CO25	Liquid	80	10.8	■	■		
Chemax CO-30	Liquid	73	11.7	■	■	■	
Chemax CO36	Liquid	68	12.6	■	■	■	
Chemax CO-40	Liquid	61	12.9	■	■	■	
Chemax CO-80	Paste	34	15.8	■	■		
Chemax CO-200/50	Paste	16	18.1	■	■		
Chemax HCO-5	Paste	142	3.8	■	■		
Chemax HCO-16	Solid	100	8.6	■	■	■	
Chemax HCO-25	Flake	80	10.8	■	■	■	
Chemax HCO-200/50	Liquid	17	18.1	■	■	■	

*Chemeen ethoxylated amines fatty amines are mildly cationic surfactants that become more nonionic in nature with increasing levels of ethylene oxide. These surfactants are substantive to metals, glass, fabrics and plastics. They provide lubricity, emulsification and corrosion inhibition in numerous applications. Several of these products are approved for use under 21 CFR 176.210 for defoaming agents in paper and paperboard manufacture.*

Product	Chemical Description	Form @25°C	Neutral. Equiv. Wt.	HLB	Emulsifier	Lubricant	Antistat	Detergent	Corrosion Inhibition
Chemeen 18-2	POE (2) Stearyl Amine	Solid	365	4.8	■				
Chemeen 18-5	POE (5) Stearyl Amine	Liquid	495	8.9	■	■		■	■
Chemeen 18-6	POE (6) Stearyl Amine	Liquid	540	9.4	■	■		■	■
Chemeen 18-8	POE (8) Stearyl Amine	Liquid	610	11.2	■	■			■
Chemeen 18-10	POE (10) Stearyl Amine	Solid	695	12.7	■			■	
Chemeen 18-50	POE (50) Stearyl Amine	Solid	2400	17.8	■	■			
Chemeen C-2	POE (2) Coco Amine	Liquid	290	6.1	■		■		
Chemeen C-5	POE (5) Coco Amine	Liquid	425	10.4	■		■		■
Chemeen C-10	POE (10) Coco Amine	Liquid	639	13.8	■		■		■
Chemeen C-12G	POE (12) Coco Amine	Liquid	745	14.3	■	■	■		
Chemeen C-615	POE (15) Coco Amine	Liquid	890	15.0	■	■		■	
Chemeen DT-15	POE (15) Tallow Diamine	Liquid	1020	13.0	■	■			
Chemeen DT-30	POE (30) Tallow Diamine	Liquid	1665	15.9	■	■			
Chemeen HT-5	POE (5) Hydrogenated Tallow Amine	Paste	495	9	■	■	■		
Chemeen HT-6	POE (6) Hydrogenated Tallow Amine	Paste	538	9.8	■	■			
Chemeen HT-8	POE (8) Hydrogenated Tallow Amine	Liquid	610	11.5	■	■			
Chemeen HT-15	POE (15) Hydrogenated Tallow Amine	Liquid	925	14.3	■	■			
Chemeen O-2	POE (2) Oleyl Amine	Liquid	365	4.8	■	■	■	■	
Chemeen O-30	POE (30) Oleyl Amine	Solid	1600	16.5	■			■	
Chemeen O-30/80	POE (30) Oleyl Amine - 80%	Liquid	1600	16.5	■			■	
Chemeen S-5	POE (5) Soya Amine	Liquid	490	9.0	■	■	■	■	■
Chemeen T-2	POE (2) Tallow Amine	Paste	350	5.0	■	■			■
Chemeen T-5	POE (5) Tallow Amine	Liquid	490	9.0	■	■	■	■	■
Chemeen T-7	POE (7) Tallow Amine	Liquid	580	9.7	■	■			■
Chemeen T-8	POE (8) Tallow Amine	Liquid	625	10.0	■	■			■
Chemeen T-10	POE (10) Tallow Amine	Liquid	700	12.6	■	■	■		■
Chemeen T-15	POE (15) Tallow Amine	Liquid	930	14.3	■	■	■		■
Chemeen T-20G	POE (20) Tallow Amine	Liquid	1120	15.7	■	■	■		■

# PHOSPHATE ESTERS

## PROPERTIES

Chemfac phosphate esters are used to add wetting, detergency and hydrotrope in alkaline detergent formulas for metals, I&I and textile applications. Some chemistries also provide emulsification, rust inhibition and EP properties.

Product Name	Chemical Description	Acid Value (pH 9.5)	Emulsifier	Lubricant	Antistat	Detergent	Hydrotrope	Alkaline Compatible	EP	Wetting Agent
Chemfac NA-350	Aliphatic	570		■				■	■	
Chemfac NB-041	POE Aliphatic	610					■	■		
Chemfac NB-042	POE Aliphatic	515					■	■		
Chemfac NB-126	POE Aliphatic	240	■		■					■
Chemfac NB-159	POE Aliphatic	168		■		■				■
Chemfac NC-006E	POE Aromatic	150						■	■	
Chemfac NC-096	POE Aromatic	184	■			■			■	■
Chemfac NC-0910	POE Aromatic	145	■		■					
Chemfac NF-100	Glycol	505						■	■	
Chemfac NF-201	Aliphatic	240						■	■	
Chemfac PA-060	Aliphatic	379				■		■		■
Chemfac PA-080	Aliphatic	345		■		■		■	■	■
Chemfac PA-800	Aliphatic	283	■	■				■	■	■
Chemfac PA-1315	Aliphatic	145	■	■				■	■	■
Chemfac PB-063	Aliphatic	190	■	■						■
Chemfac PB-082	POE Aliphatic	95			■				■	
Chemfac PB-104	POE Aliphatic	144	■		■				■	■
Chemfac PB-106	POE Aliphatic	120	■		■				■	■
Chemfac PB-109	POE Aliphatic	87	■		■				■	■
Chemfac PB-133	POE Aliphatic	150	■		■				■	■
Chemfac PB-135	POE Aliphatic	115	■		■	■			■	■
Chemfac PB-136	POE Aliphatic	100	■		■	■			■	■
Chemfac PB-139	POE Aliphatic	97	■					■	■	■
Chemfac PB-184	POE Aliphatic	140	■	■		■	■		■	■
Chemfac PB-253	POE Aliphatic	155	■	■					■	
Chemfac PB-264	POE Aliphatic	165					■		■	
Chemfac PC-006	POE Aromatic	180	■			■			■	■
Chemfac PC-099	POE Aromatic	115		■				■		
Chemfac PC-188	POE Aromatic	85	■				■		■	
Chemfac PD-600	POE Aliphatic	210	■			■	■		■	
Chemfac PD-990	POE Aliphatic	163	■	■		■			■	■
Chemfac PF-623	POE Aliphatic	170				■	■	■		
Chemfac PF-636	POE Aliphatic	400		■		■		■	■	

### Chemfac neutralized phosphate esters

Product Name	Chemical Description	Activity	Emulsifier	Lubricant	Antistat	Detergent	Hydrotrope	Alkaline Compatible	EP	Wetting Agent
Chemfac PB-082K	Aliphatic	80	■		■		■			
Chemfac PB-106K	Aliphatic	90	■		■					
Chemfac PB-135K	Aliphatic	90	■		■	■				
Chemfac PF-639E	Aliphatic	47				■	■			
Chemfac PF-639P	Aliphatic	47				■	■			
Chemfac PN-322	Aromatic	50				■	■			

# AMIDES & IMIDAZOLINES

## PROPERTIES

Chemid amides are used in the formulation of hard surface cleaners, non-aqueous hand cleaners and metalworking fluids. In addition to enhancing foam properties, these products offer detergency and emulsification characteristics to aqueous systems.

Product	Chemical Description	Form @25°C	Activity	Detergent	Foam Booster	Thickening Agent	Emulsifier
Chemid CDM-211	Modified Coco Diethanolamide	Liquid	100	■	■	■	■
Chemid ODA-100	Oleic Diethanolamide	Liquid	100		■	■	
Chemid CDA-200	Coco Diethanolamide	Liquid	100	■			■
Chemid CDE-505	Ethoxylated Coco Monoethanolamide	Liquid	100		■		■

Chemazine imidazolines offer functionality in neutral and acidic systems for cleaning, metalworking and metal finishing. They are commonly formulated in acid pickling processes where they provide both wetting properties and corrosion control.

Product	Chemical Description	Form @25°C	Activity	Detergent	Foam Booster	Thickening Agent	Emulsifier
Chemazine O	Oleyl Imidazoline	Liquid	100	■	■	■	■
Chemazine TO(H)	Tall Oil Imidazoline	Liquid	100			■	■

# QUATERNARY COMPOUNDS

## PROPERTIES

Chemquat specialty quaternaries are cationic surfactants that are used as antistats for plastics, textile dyeing aids, corrosion inhibitors and gel sensitizers. In softener formulations for textiles and paper, these products provide antistatic protection, softening and viscosity depression.

Product	Activity	External Antistat	Liquid Starch	Textile Formulating
Chemquat C/33	33	■	■	■
Chemquat C/33W	33			■
Chemquat 12/50	50		■	
Chemquat 16/29	29	■		
Chemquat 16/50	50	■		
Chemquat 508/40	40	■		
Chemquat T-20DES	96	■		■

*Chemax sulfosuccinates are used to add wetting properties to textile, agricultural and wetting formulations. In addition to exceptional wetting, these products also function as dispersants for pigments.*

Product	Chemical Description	Form	Activity	Wetting Agent	Dispersant	Flash Point (°F)
Chemax DOSS/35PG	DOSS with Water /PG Diluent	Liquid	35	■		> 200
Chemax DOSS/70E	DOSS with Ethanol/Water Diluent	Liquid	80	■	■	> 100
Chemax DOSS/70HFP	DOSS with Mixed Glycol Diluent	Liquid	70	■	■	> 200
Chemax DOSS/70PG	DOSS with Propylene Glycol Diluent	Liquid	70	■	■	> 200
Chemax DOSS/75E	DOSS with Ethanol/Water Diluent	Liquid	75	■	■	N/A
Chemax DOSS/85P	Powdered DOSS with sodium benzoate	Liquid	85	■	■	> 100
Chemax MAS/80	NaDihexyl Sulfosuccinate with Ethanol/Water Diluent	Liquid	80	■	■	> 101

*Chemax sulfated hydrophobes are used as softeners, wetting agents, lubricant additives, emulsifiers and solubilizers in textile, metalworking and I&I formulations.*

Product	Chemical Description	Form @25°C	Activity	Wetting Agent	Emulsifier	Lubricant	Solubilizer
Chemsulf SBO/65	Sulfated Butyl Oleate	Liquid	65		■	■	■
Chemsulf SCO/75	Sulfated Castor Oil	Liquid	75		■	■	■
Chemsulf S2EH(NA)	Sulfated 2-ethylhexanol	Liquid	40	■			■

*Sorbax sorbitan esters and ethoxylates represent both oil and water-soluble materials that are known for preparing highly stable O/W and W/O emulsions for use in the metalworking, agriculture, leather and textile industries.*

Product	Chemical Description	Form @25°C	Saponification Number	HLB
Sorbax SML	Sorbitan Monolaurate	Liquid	162	8.6
Sorbax SMO	Sorbitan Monooleate	Liquid	153	4.3
Sorbax SMP	Sorbitan Monopalmitate	Solid	155	6.7
Sorbax SMS	Sorbitan Monostearate	Solid	152	4.7
Sorbax STO	Sorbitan Trioleate	Liquid	180	1.8
Sorbax STS	Sorbitan Tristearate	Solid	182	2.1
Sorbax PML-20	POE (20) SML	Liquid	45	16.7
Sorbax PMO-5	POE (5) SMO	Liquid	100	10.0
Sorbax PMO-20	POE (20) SMO	Liquid	50	15.0
Sorbax PMP-20	POE (20) SMP	Liquid	46	15.6
Sorbax PMS-20	POE (20) SMS	Soft Paste	50	14.9
Sorbax PTO-20	POE (20) STO	Soft Paste	88	11.0
Sorbax PTS-20	POE (20) STS	Solid	93	10.5
Sorbax HO-50	POE (50) Sorbitan Hexaoleate	Liquid	85	11.4

*The following products represent a series of specialty materials that have been developed in our laboratories to meet a variety of industry needs.*

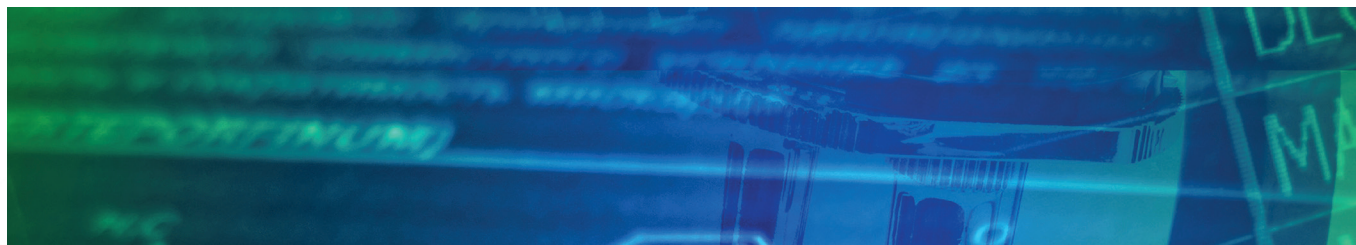
Product	Chemistry	Functionality
Chemax ACT-9S	Proprietary	Dispersant for paints and pigments
Chemax GMR	Glycerol Monoricinoleate	Emulsifier and lubricant for metalworking and textiles
Chemax GMT	Glycerol monotallate	Emulsifier and lubricant for metalworking and textiles
Chemax SP-11 Chemax SP-14 Chemax SP-20	Styrenated Phenols	Emulsifiers and dispersant additives for the metalworking and metal plating industries. Moderate detergent properties for metal cleaning.
Chemax S-170 Chemax S-660 Chemax S-2000S Chemax S-5100C	Polyalkylene Glycols	Lubricants for metalworking applications and textiles. Antifoams for boiler water, demulsifiers and mold release properties. Average molecular weight from 660— 3930.



Please see our website's Products tab for the most complete list of products and corresponding information.

PCC Chemax, Inc. offers specialty chemicals for the Metalworking, Metal Plating, Metal Cleaning, Polymer Additives, and Oilfield Industries. Industry specific guides outlining our products' chemistries are available upon request. More detailed information regarding specific product data or MSDS can be found via our website under the Literature tab.

Contact our Piedmont, SC office us with other questions or sample requests.



**pcc**  
CHEMAX

We don't simply sell products...*we sell solutions.*™

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