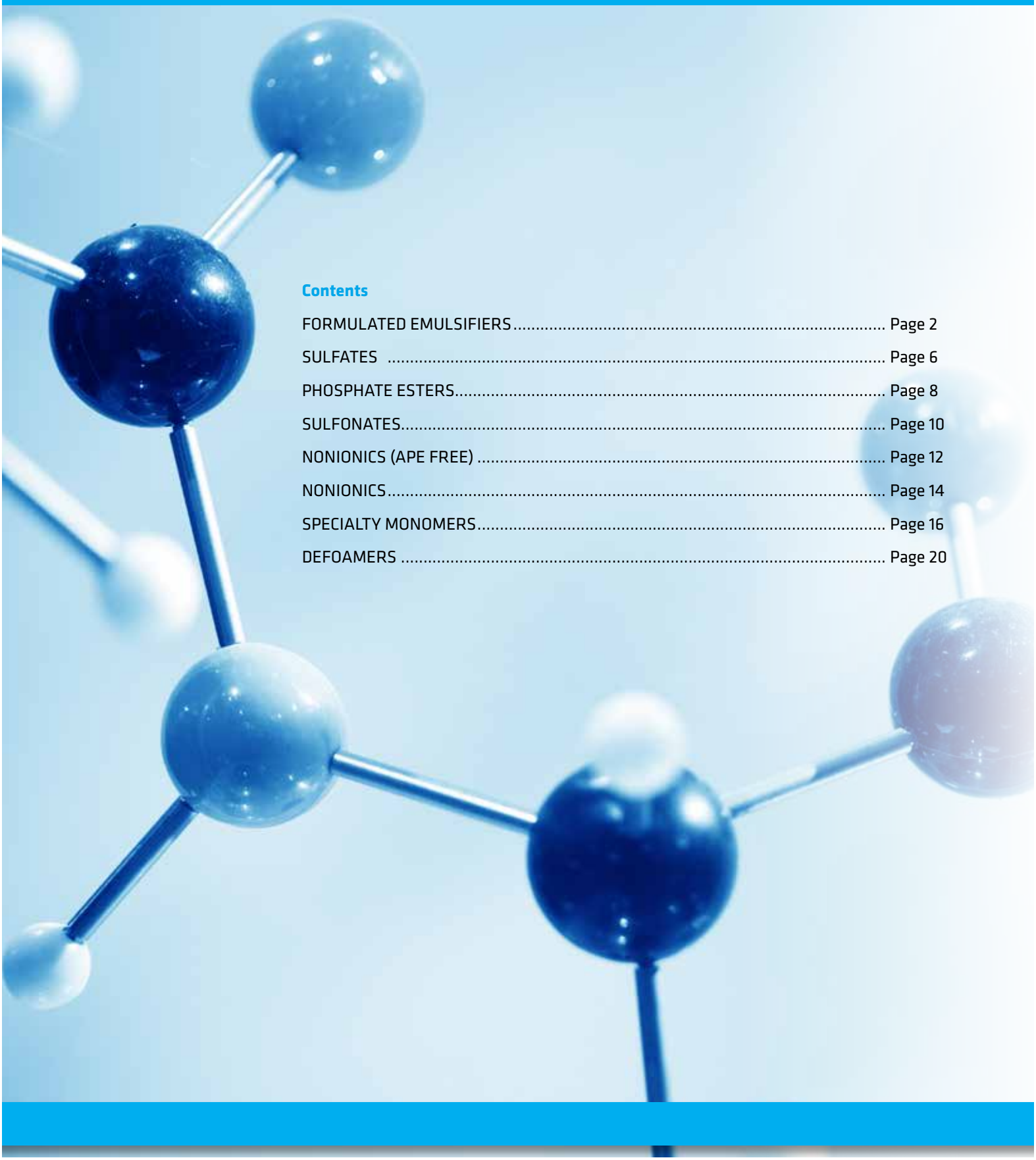
SOLVAY

asking more from chemistry®

Surfactants and Specialty Monomers



Contents

Solvay Novecare Emulsion Polymerization

Solvay Novecare is the leading global supplier of emulsifiers, specialty monomers and specialty additives to the Emulsion Polymerization Industry.

For more than 40 years, we have been committed to providing leading edge solutions to this industry. Our portfolio has evolved into the most comprehensive range of products addressing formulation challenges and more importantly enabling customers to create tomorrow's performance requirements today.

Solvay Novecare supports customers with a broad range of sustainable solutions and services including products optimized around criteria such as biodegradability, eco-toxicity, VOC content, and percentage of renewable materials.

Our APE-free surfactant portfolio covers all chemistries from nonionics (RHODASURF®), to anionics like alkyl sulfonates (RHODACAL®), alkyl ether sulfates (RHODAPEX®), sulfosuccinates (GEROPON®), phosphate esters (RHODAFAC®) and formulated blends (ABEX®).

Solvay Novecare's dedicated specialty monomer portfolio (SIPOMER®) brings functionality and boosts binder performance to higher levels. Whether seeking to improve substrate wetting, adhesion to different substrates, emulsion stability or simply demand higher film performance, such as high scrub, stain or water resistance, Solvay has the solution.

Working with Solvay

- Extensive portfolio of products
- Surfactants & Specialty monomers dedicated to Emulsion Polymers manufacturing
- Over 40 years as major supplier to the Emulsion Polymer industry
- Global player with local technical teams to support your developments

Note: These products are produced at worldwide locations through the Novecare division of Solvay.

Formulated Emulsifiers

Product	Description	APE/ APE-Free	Physical Form	Solids Content (%)	Critical Micelle Concentration (%)	Surface Tension at CMC (dynes/CM)
Formulated Anionics						
ABEX® 18-S	Proprietary	APE-Free	Liquid	35	0.03	48
ABEX® 23-S	Proprietary	APE-Free	Liquid	60	0.10	40
ABEX® 26-S	Proprietary	APE	Liquid	33	0.02	55
ABEX® 33-S	Proprietary	APE	Liquid	30	0.12	37
ABEX® JKB	Proprietary	APE-Free	Liquid	30	0.13	40
ABEX® VA-50	Proprietary	APE	Liquid	46	0.17	44
ABEX® 2005	Proprietary	APE-Free	Liquid	30	—	—
ABEX® 2020	Proprietary	APE-Free	Liquid	30	0.01	41
ABEX® 2115-A	Proprietary	APE-Free	Liquid	33	—	—
ABEX® 8018	Proprietary	APE-Free	Liquid	31	0.05	37
Formulated Anionics						
ABEX® EP-100	Ammonium salt of Sulfated Nonylphenol Ethoxylate; 4 Moles EO	APE	Liquid	30	0.03	33
ABEX® EP-110	Ammonium salt of Sulfated Nonylphenol Ethoxylate; 9 Moles EO	APE	Liquid	30	0.01	37
ABEX® EP-120	Ammonium salt of Sulfated Nonylphenol Ethoxylate; 30 Moles EO	APE	Liquid	30	0.05	42
ABEX® EP-120 NA	Sodium Salt of Sulfated Nonylphenol ethoxylate	APE	Liquid	35	ND	ND

FDA Status								
175.105	175.300	175.320	176.170	176.180	176.200	176.210	178.3400	181.30
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FDA Listing Status Codes

● Listed with no specific limits | E Extraction limitation | L Listed with limitations | R Referenced with no limitations | RL Referenced with limitations

International Inventory Status Codes

● Listed | – Not Listed

Formulated Emulsifiers

Product	Description	APE/ APE-Free	HLB	Physical Form	Solids Content (%)	Critical Micelle Concentration (%)	Surface Tension at CMC (dynes/CM)
Nonionics							
ABEX® 2515	Proprietary	APE-Free	16.3	Liquid	50	0.03	38
ABEX® 2525/40	Proprietary	APE-Free	17.4	Liquid	40	0.08	44
ABEX® 2535	Proprietary	APE-Free	18.0	Liquid	50	0.09	45
ABEX® 2545	Proprietary	APE-Free	18.3	Liquid	50	0.12	46

FDA Status								
175.105	175.300	175.320	176.170	176.180	176.200	176.210	178.3400	181.30
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International Inventory Status					
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International Inventory Status Codes

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Sulfates

Product	Description	Ionic Charge	Physical Form	Solids Content (%)	Critical Micelle Concentration (%)	Surface Tension at CMC (dynes/CM)
ALKYL SULFATES						
RHODAPON® UB STD	Sodium Lauryl Sulfate	Anionic	Liquid	30	0.06	29
RHODAPON® L-22EP	Ammonium Lauryl Sulfate	Anionic	Liquid	28	0.06	33
RHODAPON® LX-28 AEP	Sodium Lauryl Sulfate	Anionic	Liquid	30	0.06	29
ETHER SULFATES						
RHODAPEX EST-30*	Sodium Tridecyl Ether Sulfate; 3 Moles EO	Anionic	Liquid	30	0.08	33
RHODAPEX® LA-40S	Sodium Salt of Sulfated Linear Alcohol Ethoxylate; 4 Moles EO	Anionic	Liquid	31	0.02	32
RHODAPEX® LA-120S	Sodium Salt of sulfated linear Alcohol Ethoxylate, 12 Moles EO	Anionic	Liquid	30	0.02	34
RHODAPEX® LA-300S	Sodium Salt of sulfated linear alcohol ethoxylate, 30 Moles EO	Anionic	Liquid	30	0.03	44
RHODAPEX® AB-20**	Ammonium Salt of Sulfated Alcohol Ethoxylate; 9 Moles EO	Anionic	Liquid	29	0.03	33
RHODAPEX® OPS-253	Sulfate of Alkyl Phenol Ethoxylate Sodium Salt	Anionic	Liquid	36	0.09	36
RHODAPEX® CO-436	Ammonium Salt of Sulfated Alkylphenol Ethoxylate; 4 Moles EO	Anionic	Liquid	58	0.03	33

* North America Only, **Europe- Asia

FDA Status							
175.105	175.300	175.320	176.170	176.180	176.200	176.210	178.3400
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International Inventory Status							
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FDA Listing Status Codes

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International Inventory Status Codes

● Listed | – Not Listed

Phosphate Esters

Product	Description	Ionic Charge	Physical Form	Solids Content (%)	Critical Micelle Concentration (%)	Surface Tension at CMC (dynes/CM)
PHOSPHATE ESTERS						
RHODAFAC® RS-410	Aliphatic Phosphate Ester; 3 Moles EO	Anionic	Liquid	100	0.002	—
RHODAFAC® RS-610	Aliphatic Phosphate Ester; 6 Moles EO	Anionic	Liquid	100	0.002	—
RHODAFAC® RS-610A-25	Aliphatic Phosphate Ester; 6 Moles EO; Ammonium Salt Solution	Anionic	Liquid	25	0.01	30
RHODAFAC® RS-710	Aliphatic Phosphate Ester; 10 Moles EO	Anionic	Liquid	100	0.002	36
RHODAFAC® RS-710 D	Aliphatic Phosphate Ester; 10 Moles EO	Anionic	Liquid	30	0.002	36
RHODAFAC® RS-960	Aliphatic Phosphate Ester; 50 Moles EO	Anionic	Liquid	80	—	—
RHODAFAC® RE-410	Aromatic Phosphate Ester; 3 EO	Anionic	Liquid	100	—	—
RHODAFAC® RE-610	Aromatic Phosphate Ester; 9 Moles EO	Anionic	Liquid	100	0.01	37
RHODAFAC® RK-500 A	Aliphatic Phosphate Ester; 3.5 Moles EO	Anionic	Liquid	74	—	—

FDA Status							
175.105	175.300	175.320	176.170	176.180	176.200	176.210	178.3400
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International Inventory Status					
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International Inventory Status Codes

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Sulfonates

Product	Description	Ionic Charge	Physical Form	Solids Content (%)	Critical Micelle Concentration (%)	Surface Tension at CMC (dynes/CM)
SULFONATES						
RHODACAL® A-246/L	Sodium Alpha Olefin Sulfonate	Anionic	Liquid	40	0.07	29
RHODACAL® 330	Isopropyl Amine Dodecyl Benzene Sulfonate	Anionic	Liquid	90	0.1	32
RHODACAL® DS-10	Sodium Dodecyl Benzene Sulfonate	Anionic	Flake	98	0.1	32
RHODACAL® DS-4	Sodium Dodecyl Benzene Sulfonate	Anionic	Liquid	23	0.1	32
RHODACAL® DSB	Disodium Alkyl Diphenyloxide Sulfonate	Anionic	Liquid	45	0.08	32
RHODACAL® LDS-22	Sodium Dodecyl (linear) Benzene Sulfonate	Anionic	Liquid	23	0.1	32
SULFOSUCCINATES						
GEROPON® SS-OIP	Disodium Salt of Monoalkyl Ether Sulfosuccinate	Anionic	Liquid	40	0.1	30
GEROPON® ACR-4	Disodium Sort 4 Monoalkyl ether Sulfosuccinate	Anionic	Liquid	31	0.01	29
Geropon® 99	Aqueous Dioctyl Sodium sulfosuccinate	Anionic	Liquid	75	0.35	27

FDA Status								International Inventory Status					
175.105	175.300	175.320	176.170	176.180	176.200	176.210	178.3400	US (TSCA)	Canada (DSL)	Europe (EINECS)	Australia (AICS)	South Korea (KECL)	Japan (MIT)
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International Inventory Status Codes

● Listed | – Not Listed

Nonionics (APE Free)

Product	Description	Moles of Ethylene Oxide	Physical Form	Solids Content (%)	Critical Micelle Concentration (%)	Surface Tension at CMC (dynes/CM)	HLB
ALIPHATIC ALCOHOL ETHOXYLATES							
RHODASURF® BC-420	TDA Ethoxylate	3	Liquid	100	—		8
RHODASURF® BC-610	TDA Ethoxylate	6	Liquid	100	—	—	11.4
RHODASURF® BC-720	TDA Ethoxylate	9-10	Paste	100	—	—	13.8
RHODASURF® BC-729	TDA Ethoxylate	9-10	Liquid	90	—	—	13.8
RHODASURF® BC-840	TDA Ethoxylate	15	Paste	100	—	—	15.4
RHODASURF® TLA 3040	TDA Ethoxylate	30	Liquid	40	0.08	44	17.4
RHODASURF® TLA 4050	TDA Ethoxylate	40	Liquid	50	0.09	45	18
RHODASURF® TLA 5050	TDA Ethoxylate	50	Liquid	50	0.12	46	18.3
RHODASURF® TR 4070*	TDA Ethoxylate	40	Liquid	70	—	—	—
RHODASURF® L-4	LA Ethoxylate	4	Liquid	100	—	—	9.7
RHODASURF® LA-9/85	LA Ethoxylate	9	Liquid	85	—		13.1
RHODASURF® LA-12/80	LA Ethoxylate	12	Liquid	80	—		14.4
RHODASURF® ON-870	OA Ethoxylate	20	Solid	100	0.015	37	15.4
RHODASURF® ON-877	OA Ethoxylate	20	Liquid	70			
RHODASURF® 6530	Proprietary	—	Liquid	65	0.08	41	17
RHODASURF® L-7/90	LA Ethoxylate	7	Liquid	90	—	30	12.5
RHODASURF® S25 28	TSP Ethoxylate	25	Liquid	28	—		14.5
BLOCK CO-POLYMERS							
ANTAROX® L-61	EO/PO	—	Flakes	100	—	Insoluble	3.0
ANTAROX® L-62	EO/PO		Liquid	100	—	Soluble	7.0
ANTAROX® L-64	EO/PO	—	Liquid	100	—	43.2	15.0

*Europe- Asia

FDA Status							International Inventory Status					
175.105	176.170	176.180	176.200	176.210	178.3400	181.30	US (TSCA)	Canada (DSL)	Europe (EINECS)	Australia (AICS)	South Korea (KECL)	Japan (MIT)
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175.105	176.170	176.180	176.200	176.210	178.3400	181.30	US (TSCA)	Canada (DSL)	Europe (EINECS)	Australia (AICS)	South Korea (KECL)	Japan (MIT)
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FDA Listing Status Codes

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International Inventory Status Codes

● Listed | — Not Listed

Nonionics

Product	Description	Moles of Ethylene Oxide	Ionic Charge	Physical Form	Solids Content (%)	Critical Micelle Concentration (%)	Surface Tension at CMC (dynes/CM)	HLB
ALKYLPHENOL ETHOXYLATES								
IGEPAL® CA-210	Octylphenol Ethoxylate	1.5	Nonionic	Liquid	100	—	Insoluble	4.8
IGEPAL® CA-630	Octylphenol Ethoxylate	9	Nonionic	Liquid	100	0.005	31	13
IGEPAL® CA-877	Octylphenol Ethoxylate	23	Nonionic	Liquid	70	—	—	16.6
IGEPAL® CA-887	Octylphenol Ethoxylate	30	Nonionic	Liquid	70	0.03	38	17.4
IGEPAL® CA-897	Octylphenol Ethoxylate	40	Nonionic	Liquid	70	0.04	44	18
IGEPAL® CA-407	Octylphenol Ethoxylate	40	Nonionic	Liquid	70	0.04	44	18
IGEPAL® CO-210	Nonylphenol Ethoxylate	1.5	Nonionic	Liquid	100			-
IGEPAL®CO-430	Nonylphenol Ethoxylate	4	Nonionic	Liquid	100			-
IGEPAL® CO-530	Nonylphenol Ethoxylate	6	Nonionic	Liquid	100	0.03	32	10.8
IGEPAL® CO-630	Nonylphenol Ethoxylate	9	Nonionic	Liquid	100	0.005	32	13
IGEPAL® CO-720	Nonylphenol Ethoxylate	12	Nonionic	Liquid	100	0.007	36	14.2
IGEPAL® CO-730	Nonylphenol Ethoxylate	15	Nonionic	Liquid	100	0.008	39	15.0
IGEPAL® CO-858	Nonylphenol Ethoxylate	20	Nonionic	Liquid	80	0.01	41	16.0
IGEPAL® CO-887	Nonylphenol Ethoxylate	30	Nonionic	Liquid	70	0.02	45	17.2
IGEPAL® CO-897	Nonylphenol Ethoxylate	40	Nonionic	Liquid	70	0.04	44	17.8
IGEPAL® CO-977	Nonylphenol Ethoxylate	50	Nonionic	Paste	70	0.05	44	18.2
IGEPAL® CO-987	Nonylphenol Ethoxylate	70	Nonionic	Paste	70	0.05	48	18.6
IGEPAL® DM-430	Dinonylphenol Ethoxylate	7	Nonionic	Liquid	100	—	—	9.5

FDA Status							
175.105	175.300	175.320	176.170	176.180	176.200	176.210	178.3400
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International Inventory Status					
US (TSCA)	Canada (DSL)	Europe (EINECS)	Australia (AICS)	South Korea (KECL)	Japan (MIT)
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FDA Listing Status Codes

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International Inventory Status Codes

● Listed | – Not Listed

Specialty Monomers

Trade Name	% of Solid	Tg (°C)	% Water	Inhibitor ppm	Specific gravity
PAM Technology Adhesion and Much More					
SIPOMER® PAM-100	100	-18	<1	MEHQ/~5000	1.2
SIPOMER® PAM-200	100	0	<1	MEHQ/~5000	1.1
SIPOMER® PAM-300	100	-40	<1	MEHQ/~5000	1.1
SIPOMER® PAM-4000	100	ND	<0.25	MEHQ/~400	1.2
SIPOMER® PAM 5000	100	NA	1.0 max	none	1.25
Polymerizable Stabilizers					
SIPOMER ® COPS-1	40	NA	60	none	1.17
SIPOMER® COPS-3*	25	NA	75	none	—
SIPOMER ® AES-100	97	NA	<2.0	none	1.0
SIPOMER ® AAE-10	99	NA	<0.3	none	—

* Asia - Latin America - MEA

* Remainder consists of acrylic acid (~20%) and higher adducts (~50%)
** Sipomer® BEM contains ~25% methacrylic acid
*** Sipomer® SEM-25 contains ~20% methacrylic acid
**** Sipomer® WAM II-25 contains ~25% methacrylic acid

International Inventory Status									Performance Features and Application
US (TSCA)	Canada (DSL)	Europe (EINECS)	Australia (AICS)	South Korea (KECL)	Japan (MIT)	China (JECSC)	Philippines (PICCS)	New Zealand (NZIoC)	
●	–	●	●	●	–	●	–	●	◗ Improved adhesion on metal, glass, and other inorganic substrates ◗ High mono/di alkyl phosphate ratio and low residual acid ◗ Improved latex stability
●	–	●	●	●	–	●	–	–	◗ Improved adhesion on metal, glass, and other inorganic substrates ◗ Excellent compatibility with most common organic systems ◗ High mono/di alkyl phosphate ratio and low residual acid ◗ Improved anti-corrosion properties ◗ Polymerizable surfactant
●	–	●	–	–	–	●	–	–	◗ Improved adhesion on metal, glass, and other inorganic substrates ◗ Excellent compatibility with most common organic systems ◗ High mono/di alkyl phosphate ratio and low residual acid ◗ Improved anti-corrosion properties ◗ Polymerizable surfactant
●	●	●	●	●	–	●	●	●	◗ Improved adhesion on metal substrate ◗ Improved latex stability ◗ Improved gloss
●	–	●	–	–	–				Improved scrub resistance when formulated into vinyl binders for high PVC paints
●	●	●	●	●	●	●	●	●	Reactive co-stabilizer providing: ◗ Low foaming latexes ◗ Better latex stability at low surfactant dosage ◗ Coatings with improved water and bleach resistance
–	–		–	–	–	●	–	–	Reactive co-stabilizer providing scrub/washability for high PVC coating formulation
●	–	●	–	–	–	–	–	–	Reactive co-stabilizer providing: ◗ Low foaming latexes ◗ Better latex stability at low surfactant dosage ◗ Coatings with improved water and bleach resistance
●	●	●	●	●	●	●	●	●	Nonionic reactive co-stabilizer: ◗ Low foaming latexes ◗ Better latex stability at low surfactant dosage ◗ Coatings with improved water and bleach resistance

International Inventory Status Codes

● Listed | – Not Listed