

Delivering the future of **Clean**

Product Range

Home Care and
I&I Solutions North America



 **BASF**

We create chemistry

Overview

BASF Home Care and Industrial and Institutional Ingredients (HC I&I) is one of the leading suppliers in the Home Care, Industrial, and Institutional Cleaning industry.

We offer a wide range of products, such as chelating agents, polymers, surfactants, optical brighteners, biocides, and enzymes. This diverse portfolio of ingredients can be used in laundry, dish washing, hard surface cleaning, food and beverage processing, food service, institutional cleaning and sanitation, transportation care, and industrial cleaning applications.

We invite you to review our product portfolio and see not only how extensive our portfolio is but also our commitment to a world with more efficient and safer chemicals. Our commitment to the industry, to society and to the environment has been translated into initiatives like developing a Safer Choice, biodegradable and biobased portfolio.

Learn more about the BASF HC I&I portfolio at hcii.basf.us

DEFINITIONS

 Safer Choice – Ingredients that meet requirements created by the United States Environmental Protection Agency (EPA) based on performance, packaging, pH, and VOCs. All chemicals that pass this investigation are listed on CleanGredients.

 Biobased – Ingredients are considered biobased if they have biologically-based carbon molecules. Percentages of biobased carbon are approximate.

 Biodegradable – Ingredients are considered biodegradable if they can naturally decay at a certain ratio. There are five categories of biodegradability.

– RB: Readily Biodegradable by OECD criteria ($\geq 60\%$ in 10-day window)

– UB: Readily Biodegradable ($\geq 60\%$ in 28 days)

– MB: Moderately Biodegradable ($>20\text{--}60\%$ in 28 days)

– PB: Poorly Biodegradable ($\leq 20\%$ in 28 days)

– PE: Partially Eliminated by water

EPA Inert Ingredients permitted for use:

[†] Nonfood use – Nonfood use ingredients are solely for use in pesticide products applied to nonfood use sites, such as nonfood handling establishments, nonfood industrial applications, bathroom cleaning, etc. Food use is not permitted.

[‡] Food and Nonfood use – The only inert ingredients approved for use in pesticide products applied to food are those that have either tolerances or tolerance exemptions in the Code of Federal Regulations (CFR), 40 CFR part 180 (the majority are found in sections 180.910 – 960), or where no residues are found in food. Food use sites may include food contact surfaces in public eating places, dairy-process equipment, and food-processing equipment and utensils. Restrictions and limitations may vary. Please consult your BASF representative for further information on suitable BASF inert ingredients for your pesticide products.

Determination of BASF product EPA Inert status is either provided directly from EPA Inerts or by BASF self-assessment.

TEST METHODS

Test methods

- Cloud point in °C according to EN 1890:

Method A: 1g surfactant + 100g distilled water

Method B: 1g surfactant + 100g NaCl solution (c = 50g/L)

Method C: 1g surfactant + 100g NaCl solution (c = 100g/L)

Method D: 5g surfactant + 45g of diethylene glycol monobutyl ether solution (c = 250g/L)

Method E: 5g surfactant + 25g of diethylene glycol monobutyl ether solution (c = 250g/L)

- Viscosity: EN 12092 Brookfield, 60 rpm [mPa·s], 23 °C
- Viscosity: Ubbelohde according to DIN 51562 [mm²/s]
- Molar mass calculated from hydroxyl number according to DIN 53240 or PSA method
- HLB value according to W.C. Griffin
- Melting point: BASF method

Test methods for Lupasol types

Physical form	at 25 °C
Concentration (dry content)	ISO 3251, 1g, 120 °C, 4 h
pH-value	DIN 19268, 10% dry substance in dist. water
Density	DIN 51757, 25 °C
Viscosity	Brookfield, 25 °C, as is

Test methods for Sokalan types

Physical form	at 25 °C
Concentration	ISO 3251 drying to constant mass
Average molar mass	Gel Permeation Chromatography (calibration with polystyrene sulfonates/or polyacrylates)
pH-value	DIN 19268, 10% dry substance in dist. water
Bulk density	ISO 697
Density	DIN 51757, 25 °C
Viscosity	Brookfield, 25 °C, undiluted

Test methods for Rheovis types

Physical form	at 25 °C
Concentration	specific for each product, please refer to the Product Specification
pH-value	DIN 19268, 1% in dist. water
Bulk density	ISO 697
Density	DIN 51757, 25 °C
Viscosity	Brookfield, 25 °C, undiluted

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ACIDS

Product	Chemical Nature	Active Matter [%]	Physical Form	Density 20 °C [g/cm ³]
Lutropur® M ⁺	Methanesulfonic acid in water	approx. 70	Liquid	approx. 1.35
Luvipur® FM 75		75	Liquid	approx. 1.18
Luvipur® FM 85 ⁺	Formic Acid	85	Liquid	approx. 1.19
Luvipur® FM 99 ^Δ 		99	Liquid	approx. 1.22
Sokalan® DCS	Mixture of dicarboxylic acids	approx. 99	Flakes	

ANIONIC SURFACTANTS

Fatty Alcohol Ethersulfates

Product	Chemical Nature	Active Matter [%]	Physical Form [23 °C]	% Biobased Carbon	Biodegradability Level
Standapol® ES-1 K ⁺  	Sodium lauryl ether sulfate (1 EO)	approx. 25	Liquid	86	PE
Standapol® ES-2 K ⁺  	Sodium lauryl ether sulfate (2 EO)	approx. 25	Liquid	75	RB
Standapol® ES-3 K ⁺  	Sodium lauryl ether sulfate (3 EO)	approx. 28	Liquid	66	RB
Texapon® K 14 S Spez. 70% ⁺  	Sodium myreth sulfate	approx. 70	Granules	100	RB
Texapon® N 56 ⁺  	Sodium lauryl sulfate (2 EO)	approx. 56	Liquid	75	RB
Texapon® N 70 LD NA ⁺  	Sodium lauryl ether sulfate (2 EO)	approx. 70	Paste	75	RB
Texapon® N 70 LS ⁺  	Sodium lauryl ether sulfate (3 EO)	approx. 70	Paste	66	RB
Texapon® N 70 NA ⁺   	Sodium lauryl ether sulfate (2 EO)	approx. 70	Paste	75	RB
Texapon® N 70 NA FlexGold	Sodium lauryl ether sulfate (2 EO)	approx. 70	Paste	75	RB
Texapon® N 70 NA FlexSilver	Sodium lauryl ether sulfate (2 EO)	approx. 70	Paste	75	RB
Texapon® N 701 S ⁺   	Sodium lauryl ether sulfate (1 EO)	approx. 70	Paste	86	RB
Texapon® NSO 328 UP ⁺  	Sodium lauryl ether sulfate (3 EO)	approx. 28	Liquid	75	RB

Fatty Alcohol Sulfates

Product	Chemical Nature	Active Matter [%]	Physical Form [23 °C]	% Biobased Carbon	Biodegradability Level
Standapol® WAQ-LCK ⁺   	Sodium lauryl sulfate	approx. 30	Liquid	100	RB
Sulfofon® 1216 G ⁺  	Sodium Coco-sulfate	approx. 92.5	Granules	100	RB
Texapon® 842 UP ⁺   	Sodium n-octyl sulfate	approx. 40	Liquid	100	RB
Texapon® K 12 G ⁺   	Sodium C 12 fatty alcohol sulfate	approx. 97	Granules	100	RB
Texapon® K 12 P ⁺  	Sodium C 12 fatty alcohol sulfate	approx. 97	Powder	100	RB
Texapon® K 30 UP ⁺  	Sodium Coco-sulfate	approx. 29	Liquid	100	RB
Texapon® LS 30 NA ⁺   	Sodium lauryl sulfate	approx. 30	Liquid	100	RB

Product	Chemical Nature	Active Matter [%]	Physical Form [23 °C]	% Biobased Carbon	Biodegradability Level
Texapon® V 95 G [†]  	Sodium lauryl sulfate	approx. 97	Granules	100	RB
Texapon® Z 95 P [†]  	Sodium C12-18 fatty alcohol sulfate	approx. 95	Powder	100	RB

Note:

† = Nonfood use EPA Inert Ingredients; ‡ = Food and Nonfood use EPA Inert Ingredients; UP = Unpreserved/Preservative free

G = Granules; P = Powder; NA = North American version; LD = Low Dioxane; K = MIT/CIT preserved

Δ = Direct Release

BIOCIDES

Product	Active	Physical Form	Active Matter [%]	Biodegradability Level
FIFRA Regulated End Use				
Aseptrol®	Chlorine Dioxide	Solid		
Myacide® AS Plus [†] 	Bronopol	Crystals	99	RB
Myacide® GA 50 [†] 	Glutaraldehyde	Liquid	50	RB
Myacide® S 15 [†] 	Bronopol	Liquid	10	PE
Myacide® S 30 [†] 	Bronopol	Liquid	30	RB
FIFRA Regulated Technical Grade				
Myacide® AS Technical [†] 	Bronopol	Crystals	99	RB
Myacide® GDA Technical [†] 	Glutaraldehyde	Liquid	50	RB
Non FIFRA Regulated				
Protectol® GA 50 	Glutaraldehyde	Liquid	50	RB
Protectol® PE NA 	Phenoxyethanol	Liquid	99.5	RB

FIFRA = Federal Insecticide, Fungicide, and Rodenticide Act

CHELATING AGENTS

Product	Chemical Nature	Physical Form	Active Matter [%]	pH [1% in dist. Water]	Bulk Density [g/L]	Density 20 °C [g/cm ³]	% Biobased Carbon	Biodegradability Level
Trilon® A liquid [†] 	Trisodium salt of NTA	Liquid	40	11.3		1.31		RB
Trilon® B liquid [†] 	Tetrasodium salt of EDTA	Liquid	approx. 40	approx. 11.5		approx. 1.31		PB
Trilon® B Powder [†] 	Tetrasodium salt of EDTA	Powder	approx. 87	approx. 11.5	approx. 690			PB
Trilon® BAD liquid [†] 	Diammonium of EDTA	Liquid	45	5				PB
Trilon® BAQ liquid 	Tetraammonium salt of EDTA	Liquid	48	9				PB
Trilon® BD [†] 	Disodium salt of EDTA	Powder	90	4.5	950			PB
Trilon® BS Powder [†] 	Ethylenediaminetetraacetic acid	Powder	min. 99	approx. 2.8	approx. 820			PB

Product	Chemical Nature	Physical Form	Active Matter [%]	pH [1% in dist. Water]	Bulk Density [g/L]	Density 20 °C [g/cm ³]	% Biobased Carbon	Biodegradability Level
Trilon® BX Liquid†	Tetrasodium salt of EDTA	Liquid	approx. 40	approx. 11.5		approx. 1.28		PB
Trilon® BX Powder‡		Powder	approx. 84	approx. 11.2	approx. 845			PB
Trilon® C Liquid 50%	Sodium salt of DTPA	Liquid	50	11.5		1.35		PB
Trilon® C liquid†		Liquid	40	11.5		1.29		PB
Trilon® D liquid†	Trisodium salt of HEDTA	Liquid	40	11.5				
Trilon® M Granules SG†	Trisodium salt of MGDA	Granules	min. 76	approx. 11.5	approx. 775		ask for details	RB
Trilon® M Liquid TΔ†		Liquid	approx. 40	approx. 11.0		approx. 1.31	ask for details	RB
Trilon® P Liquid	Anionic polyamine, modified	Liquid	40	11.5		1.2		PB

Note:

† = Nonfood use EPA Inert Ingredients; ‡ = Food and Nonfood use EPA Inert Ingredients

Δ = Direct Release

CORROSION INHIBITORS

Product	Chemical Nature	Active Matter [%]	Physical Form	pH
Korantin® BH Solid	2-butyne-1, 4-diol	98	Flakes	NA
Korantin® MAT	Aliphatic dicarboxylic acid monoalkylamide in triethanolamine	100	Liquid	8.4 – 9.0 (5% in water)
Korantin® PM	Ethyneylcarbinol alkoxyolate	100	Liquid	7.0 – 10.5
Korantin® PP		approx. 67	Liquid	7.0 – 10.5 (10% in water)

ENZYMES

Product	Chemical Nature	Physical Form	pH	Density at 20 °C [g/cm ³]	Activity [BPU/g]
Lavery™ Pro 106 L	Protease preparation	Liquid	6	1.0 – 1.1	>10000
Lavery™ Pro 106 LS	Stabilized Protease	Liquid	8	1.0 – 1.1	>10000

BPU = BASF Protease Unit

NONIONIC SURFACTANTS

Alcohol Alkoxylates

Product	Chemical Nature	Form	Cloud Point Method A [°C]	HLB	Foam Height [mm] Ross Miles (0.1% wt%, 25 °C) t = 0 min/5 min*	% Biobased Carbon	Biodegradability Level
Dehydol® 100 [‡]  	C10-18 Fatty Alcohol (9 EO)	Paste	80	13	115 & 115	45	RB
Dehydol® LT 5 [‡]  	C12-18 Fatty Alcohol (5 EO)	Liquid		10.5	35 & 30	60	RB
Dehydol® LT 7 [‡]  	C12-18 Fatty Alcohol (7 EO)	Liquid	53	12	110 & 110	52	RB
Inoterra™ DWE [‡] 	Nonionic Surfactant	Liquid	53	12.4	110 & 75		UB
Inoterra™ DWF [‡] 	Nonionic Surfactant	Liquid	54	13.6	100 & 80		UB
Lutensol® A 9 N [‡]  	C12-14 Fatty Alcohol (9 EO)	Waxy Solid	75	12.9	110 & 110	49	UB
Lutensol® A 12 N [‡]  	C12-14 Fatty Alcohol (12 EO)	Waxy Solid	>100	14.3		34	UB
Lutensol® A 65 N [‡]  	C12-14 Fatty Alcohol (6.5 EO)	Liquid	50	12	120 & 115	41	UB
Lutensol® AO 3 [‡] 	C13-C15 Oxo Alcohol (3 EO)	Liquid		8	15 & 15		RB
Lutensol® AO 5	C13-C15 Oxo Alcohol (5 EO)	Liquid		10			RB
Lutensol® AO 7 [‡] 	C13-C15 Oxo Alcohol (7 EO)	Liquid	43	12	100 & 100		RB
Lutensol® AO 8 [‡] 	C13-C15 Oxo Alcohol (8 EO)	Solid	52	12.5	100 & 100		RB
Lutensol® AO 11 [‡] 	C13-C15 Oxo Alcohol (11 EO)	Solid	86	14	115 & 105		RB
Lutensol® AT 25 Flake [‡]  	C16-C18 Fatty Alcohol (25 EO)	Flake	>100	16	85 & 65	25	RB
Lutensol® AT 25 Pwd. [‡]  	C16-C18 Fatty Alcohol (25 EO)	Powder	>100	16	85 & 65	25	RB
Lutensol® CS 6250 [‡] 	Alcohol Ethoxylate	Liquid	>100		10 & 0		UB
Lutensol® LA 60 [‡]   	C12-14 Fatty Alcohol (7 EO)	Liquid	60		115 & 115	49	UB
Lutensol® ON 30	C10-Oxoalkohol + 3 EO	Liquid		9			UB
Lutensol® ON 60	C10-Oxoalkohol + 6 EO	Liquid	36	11.5			RB
Lutensol® TDA 3 [‡] 	Tridecyl Alcohol (3 EO)	Liquid		8	10 & 0		MB
Lutensol® TDA 6 [‡] 	Tridecyl Alcohol (6 EO)	Liquid		11	55 & 50		MB
Lutensol® TDA 8 [‡] 	Tridecyl Alcohol (8 EO)	Paste	43	12	115 & 75		UB
Lutensol® TDA 8, 90% [‡] 	Tridecyl Alcohol (8 EO)	Liquid	43	12	115 & 75		RB
Lutensol® TDA 9 [‡]  	Tridecyl Alcohol (9 EO)	Liquid	58	13	125 & 85		UB
Lutensol® TDA 10 [‡] 	Tridecyl Alcohol Ethoxylate (10 EO)	Paste	82	14	130 & 110		UB
Lutensol® TO 5 [‡] 	C13 Oxo Alcohol (5 EO)	Liquid		10.5	20 & 20		UB
Lutensol® TO 6 [‡] 	C13 Oxo Alcohol (6 EO)	Liquid		11	70 & 65		UB
Lutensol® TO 7	C13 Oxo Alcohol (7 EO)	Liquid		12			RB
Lutensol® TO 8 [‡] 	C13 Oxo Alcohol (8 EO)	Liquid	60	13	115 & 75		UB

Note:

* = Concentration listed as active basis; † = Nonfood use EPA Inert Ingredients; ‡ = Food and Nonfood use EPA Inert Ingredients

Product	Chemical Nature	Form	Cloud Point Method A [°C]	HLB	Foam Height [mm] Ross Miles (0.1% wt%, 25 °C) t = 0 min/5 min*	% Biobased Carbon	Biodegradability Level
Lutensol® TO 12 [‡] 	C13 Oxo Alcohol (8 EO)	Paste	93	14.5	125 & 85		RB
Lutensol® TO 65 [‡] 	C13 Oxo Alcohol (6.5 EO)	Liquid		11.5			RB
Lutensol® TO 89 [‡] 	C13 Oxo Alcohol (8 EO)	Liquid	60	13	115 & 75		UB
Lutensol® XL 40 [‡] 	Guerbet Alcohol Alkoxylate (4 EO)	Liquid		10.5	20 & 5		RB
Lutensol® XL 50 	Guerbet Alcohol Alkoxylate (5 EO)	Liquid		11.5	30 & 10		RB
Lutensol® XL 70 [‡] 	Guerbet Alcohol Alkoxylate (7 EO)	Liquid		12.5	105 & 15		RB
Lutensol® XL 79 [‡] 	Guerbet Alcohol Alkoxylate (7 EO)	Liquid		12.5	105 & 15		RB
Lutensol® XL 80 [‡] 	Guerbet Alcohol Alkoxylate (8 EO)	Liquid	56	13	105 & 15		RB
Lutensol® XL 90 [‡] 	Guerbet Alcohol Alkoxylate (9 EO)	Liquid	69	14	111 & 20		RB
Lutensol® XL 100 [‡] 	Guerbet Alcohol Alkoxylate (10 EO)	Liquid/ Paste	80	15	120 & 35		UB
Lutensol® XP 30 [‡] 	Guerbet Alcohol Ethoxylate (3 EO)	Liquid		9	0 & 0		UB
Lutensol® XP 40 [‡] 	Guerbet Alcohol Ethoxylate (4 EO)	Liquid		10.5	10 & 0		UB
Lutensol® XP 50 [‡] 	Guerbet Alcohol Ethoxylate (5 EO)	Liquid		11.5	20 & 0		UB
Lutensol® XP 70 [‡] 	Guerbet Alcohol Ethoxylate (7 EO)	Liquid	52	13	80 & 5		UB
Lutensol® XP 79 [‡] 	Guerbet Alcohol Ethoxylate (7 EO)	Liquid	52	13	80 & 5		UB
Lutensol® XP 80 ^{Δ‡} 	Guerbet Alcohol Ethoxylate (8 EO)	Liquid	56	14	60 & 5		UB
Lutensol® XP 89 ^{Δ‡} 	Guerbet Alcohol Ethoxylate (8 EO)	Liquid	56	14	60 & 5		UB
Lutensol® XP 90 ^{Δ‡} 	Guerbet Alcohol Ethoxylate (9 EO)	Liquid	69	14.5	95 & 10		UB

Note:

Cloud Point (Method A) = 1g active surfactant + 100g water; * = Concentration listed as active basis

† = Nonfood use EPA Inert Ingredients; ‡ = Food and Nonfood use EPA Inert Ingredients; HLB = Hydrophilic-lipophilic balance

Δ = Direct Release

Alkyl Polyglucosides

Product	Chemical Nature	Form	Active Matter [%]	Foam Height [mm] Ross Miles (0.1% wt%, 25 °C) t = 0 min/5 min*	% Biobased Carbon	Biodegradability Level
APG® 325 N [†] 	Decyl/Undecyl Glucoside	Liquid	50	150 & 150	ask for details	RB
Glucopon® 50 G [‡] 	Lauryl/Myristyl Glucoside (and) Sodium Sulfate (and) Sodium Silicate (and) Sodium Coco Sulfate	Solid	50	Insoluble	100	UB
Glucopon® 215 UP ^{Δ‡} 	Caprylyl/Decyl Glucoside	Liquid	64	140 & 140	100	RB
Glucopon® 225 DK ^{Δ‡} 		Liquid	70	150 & 150	100	RB
Glucopon® 420 UP [‡] 	Caprylyl/Myristyl Glucoside	Liquid	50	155 & 155	100	RB
Glucopon® 425 N [†] 		Liquid	50	150 & 150	100	RB

Product	Chemical Nature	Form	Active Matter [%]	Foam Height [mm] Ross Miles (0.1% wt%, 25 °C) t = 0 min/5 min*	% Biobased Carbon	Biodegradability Level
Glucopon® 600 UP [†]	Lauryl/Myristyl Glucoside	Liquid	50	135 & 135	100	RB
Glucopon® 625 UP [†]		Liquid	50	135 & 135	100	RB

Note:

* = Concentration listed as active basis; † = Nonfood use EPA Inert Ingredients; ‡ = Food and Nonfood use EPA Inert Ingredients

UP = Unpreserved/Preservative free; DK = Dark; N = Neutralized; G = Granule

Δ = Direct Release

Amine Ethoxylates

Product	Chemical Nature	Cloud Point [°C]	Amine Number [mg KOH/g]	Viscosity [mPa-s]	Physical Form [23 °C]	Biodegradability Level
Demelan® VPC [†]	Blend of ethoxylated fatty amines and ethoxylated fatty alcohols	approx. 58/E	approx. 112	approx. 250	Liquid	RB

Ethylene Oxide/Propylene Oxide Block Copolymer

Product	Chemical Nature	Form	Cloud Point Method A [°C]	HLB**	Foam Height [mm] Ross Miles (0.1% wt%, 25 °C) t = 0 min/5 min*	Biodegradability Level
Pluronic® 10 R5 ^{Δ†}	EO/PO Block Copolymer, 50% EO	Liquid	69	15	60 & 0	PE
Pluronic® 17 R2 ^{Δ‡}	EO/PO Block Copolymer, 20% EO	Liquid	35	6	25 & 0	RB
Pluronic® 17 R4 [‡]	EO/PO Block Copolymer, 40% EO	Liquid	46	12	40 & 0	RB
Pluronic® 25 R2 ^{Δ†}	EO/PO Block Copolymer, 20% EO	Liquid	29	4	20 & 0	RB
Pluronic® 25 R4 ^{Δ†}	EO/PO Block Copolymer, 40% EO	Liquid	40	8	30 & 0	UB
Pluronic® 31 R1 [‡]	EO/PO Block Copolymer, 10% EO	Liquid	25	1	10 & 0	PE
Pluronic® F 68 Prill [‡]	EO/PO Block Copolymer, 80% EO	Prill	>100	29	100 & 90	PB
Pluronic® F 77 Prill [‡]	EO/PO Block Copolymer, 70% EO	Prill	>100	25	90 & 75	PE
Pluronic® F 87 Prill [‡]	EO/PO Block Copolymer, 70% EO	Prill	>100	24	95 & 75	UB
Pluronic® F 88 Prill [‡]	EO/PO Block Copolymer, 80% EO	Prill	>100	28	85 & 80	PE
Pluronic® F 98 Prill [‡]	EO/PO Block Copolymer, 80% EO	Prill	>100	28	75 & 70	UB
Pluronic® F 108 Prill [‡]	EO/PO Block Copolymer, 80% EO	Prill	>100	27	70 & 70	UB
Pluronic® F 127 Prill [‡]	EO/PO Block Copolymer, 70% EO	Prill	>100	22	70 & 65	PB
Pluronic® L 10 [‡]	EO/PO Block Copolymer, 10% EO	Liquid	32	14	30 & 0	PE
Pluronic® L 31 [‡]	EO/PO Block Copolymer, 10% EO	Liquid	37	5	40 & 0	PE
Pluronic® L 35 [‡]	EO/PO Block Copolymer, 50% EO	Liquid	73	19	70 & 0	RB
Pluronic® L 44 INH [‡]	EO/PO Block Copolymer, 40% EO	Liquid	67	16	50 & 0	UB
Pluronic® L 61 ^{Δ†}	EO/PO Block Copolymer, 10% EO	Liquid	24	3	15 & 0	RB
Pluronic® L 62 ^{Δ†}	EO/PO Block Copolymer, 20% EO	Liquid	32	7	25 & 0	RB

Note:

* = Concentration listed as active basis; † = Nonfood use EPA Inert Ingredients; ‡ = Food and Nonfood use EPA Inert Ingredients;

Δ = Direct Release

Product	Chemical Nature	Form	Cloud Point Method A [°C]	HLB**	Foam Height [mm] Ross Miles (0.1% wt%, 25 °C) t = 0 min/5 min*	Biodegradability Level
Pluronic® L 62 LF [‡]	EO/PO Block Copolymer, 20% EO	Liquid	28	7	30 & 0	UB
Pluronic® L 64 [‡]	EO/PO Block Copolymer, 40% EO	Liquid	58	15	35 & 0	PE
Pluronic® L 81 [‡]	EO/PO Block Copolymer, 10% EO	Liquid		2	Insoluble	UB
Pluronic® L 92 [‡]	EO/PO Block Copolymer, 20% EO	Liquid	26	6	40 & 0	UB
Pluronic® L 101 [‡]	EO/PO Block Copolymer, 10% EO	Liquid		1	Insoluble	PE
Pluronic® L 121 [‡]	EO/PO Block Copolymer, 10% EO	Liquid		1	Insoluble	PE
Pluronic® N 3 ^{Δ†}	EO/PO Block Copolymers	Liquid	31	16	15 & 0	UB
Pluronic® P 65 [‡]	EO/PO Block Copolymer, 50% EO	Paste	82	17	65 & 15	UB
Pluronic® P 103 [‡]	EO/PO Block Copolymer, 30% EO	Paste	86	9	120 & 90	PB
Pluronic® P 104 [‡]	EO/PO Block Copolymer, 40% EO	Paste	81	13	95 & 80	PB
Pluronic® P 105 [‡]	EO/PO Block Copolymer, 50% EO	Paste	91	15	95 & 85	PB
Pluronic® P 123 [‡]	EO/PO Block Copolymer, 30% EO	Paste	90	8	110 & 95	PB
Tetronic® 150 R1 [‡]	Amine Based Block Copolymer, 10% EO	Liquid		1	Insoluble	MB
Tetronic® 901 [†]	Amine Based Block Copolymer, 10% EO	Liquid		3	Insoluble	PB
Tetronic® 904 [‡]	Amine Based Block Copolymer, 40% EO	Paste	74	15	90 & 55	MB
Tetronic® 908 Prill [‡]	Amine Based Block Copolymer, 80% EO	Prill	>100	31	70 & 60	MB
Tetronic® 1107 Prill [‡]	Amine Based Block Copolymer, 70% EO	Prill	>100	24	80 & 70	MB
Tetronic® 1301 [†]	Amine Based Block Copolymer, 10% EO	Liquid		2	Insoluble	PB

Note:

Cloud Point (Method A) = 1g active surfactant + 100g water; ** = Calculated HLB = Hydrophilic-lipophilic balance

† = Nonfood use EPA Inert Ingredients; ‡ = Food and Nonfood use EPA Inert Ingredients

Low-Foaming Nonionic Surfactants

Product	Chemical Nature	Form	Cloud Point Method A [°C]	HLB	Foam Height [mm] Ross Miles (0.1% wt%, 25 °C) t = 0 min/5 min*	% Biobased Carbon	Biodegradability Level
Dehypon® GRA	Modified Fatty Alcohol Polyglycoether	Solid		Prop.	Insoluble	ask for details	RB
Dehypon® LS 24 [‡]	C12-14 Fatty Alcohol (2EO) & 4PO	Liquid	6	7.5	10 & 5	45	RB
Dehypon® LS 36 [‡]	C12-14 Fatty Alcohol (3EO) & 6PO	Liquid	11	9.0	15 & 5	35	RB
Dehypon® LS 54 [‡]	C12-14 Fatty Alcohol (5EO) & 4PO	Liquid	30	14.5	90 & 15	37	RB
Dehypon® LT 104	C12-18 Fatty Alcohol (10EO) & n-butyl end-capped	Paste	26	14.5	75 & 10	38	RB
Plurafac® D 250 [‡]	Alcohol Alkoxylate	Liquid	57	Prop.	95 & 25		RB
Plurafac® LF 120	Alcohol Alkoxylate	Liquid	29	Prop.	45 & 5		RB
Plurafac® LF 220	Alcohol Alkoxylate	Liquid	42	Prop.	105 & 10		RB
Plurafac® LF 221	Alcohol Alkoxylate	Liquid	34	Prop.	75 & 10		UB

Note:

* = Concentration listed as active basis; ‡ = Food and Nonfood use EPA Inert Ingredients; Prop. = Proprietary; HLB = Hydrophilic-lipophilic balance

Product	Chemical Nature	Form	Cloud Point Method A [°C]	HLB	Foam Height [mm]		% Biobased Carbon	Biodegradability Level
					Ross Miles (0.1% wt%, 25 °C) t = 0 min/5 min*			
Plurafac® LF 224	Alcohol Alkoxyolate	Liquid		Prop.	10 & 5			RB
Plurafac® LF 303 [‡]	Alcohol Alkoxyolate	Liquid		Prop.	Insoluble			UB
Plurafac® LF 400 [‡]	Alcohol Alkoxyolate	Liquid	33	Prop.	90 & 15			RB
Plurafac® LF 403 [‡]	Alcohol Alkoxyolate	Liquid		Prop.	10 & 5			RB
Plurafac® LF 431	Alcohol Alkoxyolate & End Capped	Liquid		Prop.				UB
Plurafac® LF 500 [‡]	Alcohol Alkoxyolate	Liquid	18	Prop.	20 & 5			RB
Plurafac® LF 802 [‡]	Alcohol Alkoxyolate	Liquid	56	Prop.	125 & 30			RB
Plurafac® LF 900 [‡]	Alcohol Alkoxyolate	Liquid	20	Prop.	5 & 0			UB
Plurafac® LF 901 [‡]	Alcohol Alkoxyolate	Liquid	38	Prop.	35 & 5			RB
Plurafac® LF RA-P [‡]	Alcohol Alkoxyolate	Liquid	35	Prop.	65 & 5	ask for details		RB
Plurafac® RA 300 [‡]	Alcohol Alkoxyolate	Liquid	37	Prop.	114 & 30	ask for details		RB
Plurafac® RCS 43 [‡]	Alcohol Alkoxyolate	Liquid	43	Prop.	45 & 0	ask for details		UB
Plurafac® S 305 LF [‡]	Alcohol Alkoxyolate	Liquid	19	Prop.	15 & 0	ask for details		UB
Plurafac® S 405 LF [‡]	Alcohol Alkoxyolate	Liquid	28	Prop.	20 & 0	ask for details		UB
Plurafac® S 505 LF [‡]	Alcohol Alkoxyolate	Liquid	47	Prop.	60 & 10	ask for details		UB
Plurafac® SL 62 [‡]	Alcohol Alkoxyolate	Liquid	62	Prop.	125 & 30	ask for details		MB
Plurafac® SLF 180 [‡]	Alcohol Alkoxyolate	Liquid	18	Prop.	20 & 0			RB

Note:

Cloud Point (Method A) = 1g active surfactant + 100g water; * = Concentration listed as active basis; † = Nonfood use EPA Inert Ingredients
‡ = Food and Nonfood use EPA Inert Ingredients; HLB = Hydrophilic-lipophilic balance; Prop. = Proprietary

Special Surfactants

Product	Chemical Nature	Form	Cloud Point Method A [°C]	HLB	Foam Height [mm]		% Biobased Carbon	Biodegradability Level
					Ross Miles (0.1% wt%, 25 °C) t = 0 min/5 min*			
Basophor® ELH 60	Castor oil ethoxylate	Liquid	>100	16			32	RB
Dehypound® Advanced [†]	Speciality Nonionic Surfactant	Liquid	27		95 & 35		ask for details	RB
Plurafac® CS-10	Polycarboxylated Surfactant	Liquid			65 & 15			MB

Note:

Cloud Point (Method A) = 1g active surfactant + 100g water; † = Nonfood use EPA Inert Ingredients; ‡ = Food and Nonfood use EPA Inert Ingredients
HLB = Hydrophilic-lipophilic balance; Prop. = Proprietary

OPTICAL EFFECT PRODUCTS AND STABILIZERS

Antioxidants

Product	Chemical Nature	Physical Form	Active Matter [%]
Tinogard® DA	Didodecyl 3, 3'-thiodipropionate	Flakes	≥ 95
Tinogard® TT	Pentaerythrityl Tetra-di-t-butyl Hydroxyhydrocinnamate	Powder	100

Fluorescent Whitening Agents (FWAs)

Product	Chemical Nature	Appearance	Active Matter [%]
Tinopal® CBS SP Slurry 33 [†]	Distyryl biphenyl derivative	Flowable suspension	30
Tinopal® CBS-X [†]		Free flowing granules	90

OTHER SURFACTANTS

Product	Chemical Nature	Active Matter [%]	Physical Form [23°C]	pH	% Biobased Carbon	Biodegradability Level
Comperlan® 100 NA  	Cocamide MEA	approx. 96	Solid		88	RB
Comperlan® CMEA NA [†]  	Cocamide MEA	min. 87	Solid		87	RB
Comperlan® IP  	Cocamide MIPA	min. 95	Solid		82	RB
Comperlan® KD	Cocamide DEA	approx. 95	Solid	9 – 11	76	RB
Comperlan® LD	Lauramide DEA	approx. 95	Solid	9 – 10	75	RB
Comperlan® MIPA	Cocoamide MIPA	approx. 86	Pellets	8 – 11	82	RB
Dehyquart® CSP [†]  	Special cationic surfactant	approx. 80	Liquid		59	RB
Dehyton® AB 30 [†]  	Coco betaine	approx. 31	Liquid		77	RB
Dehyton® KE UP [†]  	Cocamidopropyl betaine	approx. 30	Liquid		77	RB
Dehyton® MC  	Sodium cocoamphoacetate	approx. 40	Liquid		66	UB
Dehyton® PK 45 [†]   	Cocamidopropyl betaine	45	Liquid		66	RB
Dehyton® SFA	Blend of cocamidopropyl betaine, disodium 2-sulfolaurate	approx. 47	Liquid			
Deriphat® 160 C [†]   	Sodium lauriminodipropionate	approx. 30	Liquid		66	RB
Klearfac® AA 270 [†] 	Phosphate Ester	85	Liquid			UB
Larostat® 264 A 	Cationic antistat additive	approx. 35	Liquid			PB
Plantapon® 611 L [†]  	Blend of sodium lauryl ether sulfate, alkyl polyglycoside, cocamidopropyl betaine	approx. 63	Viscous Liquid		ask for details	RB

Product	Chemical Nature	Active Matter [%]	Physical Form [23°C]	pH	% Biobased Carbon	Biodegradability Level
Plantapon® 611 L UP†   	Blend of sodium lauryl ether sulfate, alkyl polyglycoside, cocamidopropyl betaine	approx. 63	Viscous Liquid		ask for details	RB
Plantatex® HCC† 	Wax Dispersion	approx. 38	Liquid			RB
Texapon® SFA	Disodium 2-Sulfolaurate	approx. 30	Solid		100	RB

Note:

† = Nonfood use EPA Inert Ingredients

POLYALKYLENE GLYCOLS

Product	Chemical Nature	Physical Form [23 °C]	Molecular Weight
Pluriol® E 200 LS†	Polyethylene glycol	Liquid	approx. 200
Pluriol® E 300†	Polyethylene glycol	Liquid	approx. 300
Pluriol® E 300 LS†	Polyethylene glycol	Liquid	approx. 300
Pluriol® E 400†	Polyethylene glycol	Liquid	approx. 400
Pluriol® E 400 LS†	Polyethylene glycol	Liquid	approx. 400
Pluriol® E 400 NF† 	Polyethylene glycol	Liquid	approx. 400
Pluriol® E 600 LS†	Polyethylene glycol	Liquid/Solid	approx. 600
Pluriol® E 600 NF†	Polyethylene glycol	Liquid/Solid	approx. 600
Pluriol® E 1000 LS†	Polyethylene glycol	Solid	approx. 1000
Pluriol® E 1450 NF	Polyethylene glycol	Solid	approx. 1450
Pluriol® E 1450 NF Prill	Polyethylene glycol	Prill	approx. 1450
Pluriol® E 1450 Prill‡	Polyethylene glycol	Prill	approx. 1450
Pluriol® E 3350†	Polyethylene glycol	Solid	approx. 3350
Pluriol® E 3350 Prill‡	Polyethylene glycol	Prill	approx. 3350
Pluriol® E 4000	Polyethylene glycol	Solid	approx. 4000
Pluriol® E 4000 FL†	Polyethylene glycol	Flake	approx. 4000
Pluriol® E 4000 Prill†	Polyethylene glycol	Prill	approx. 4000
Pluriol® E 8000 E† 	Polyethylene glycol	Solid	approx. 8000
Pluriol® E 8000 FL	Polyethylene glycol	Flake	approx. 8000
Pluriol® E 8000 NF†	Polyethylene glycol	Solid	approx. 8000
Pluriol® E 8000 Prill 	Polyethylene glycol	Prill	approx. 8000

Note:

† = Nonfood use EPA Inert Ingredients

‡ = Food and Nonfood use EPA Inert Ingredients

WATER SOLUBLE POLYMERS

Dispersing Agents

Product	Chemical Nature	Physical Form	Active Matter [%]	Molar Mass [g/mol]	pH [10% in dist. Water]	Bulk Density [g/L]	Density [g/cm ³]	Viscosity [mPa-s]	Biodegradability Level
Sokalan® CP 5 [‡]	Maleic acid/acrylic acid copolymer, sodium salt	Liquid	40	70 000	8		1.30	2000	
Sokalan® CP 5 Granules [‡]	Maleic acid/acrylic acid copolymer, sodium salt	Granules	92	70 000	8	580			
Sokalan® CP 7 [‡]	Maleic acid/acrylic acid copolymer, sodium salt	Liquid	40	50 000	8		1.30	1500	PE
Sokalan® CP 7 Granules NL [‡]	Maleic acid/acrylic acid copolymer, sodium salt	Granules	92	50 000	8	660			
Sokalan® CP 9 [‡] 🌱	Maleic acid/olefin copolymer, sodium salt	Liquid	25	12 000	11**		1.10	50	PB
Sokalan® CP 10 [‡] 🌱	Polyacrylic acid modified, sodium salt	Liquid	45	4 000	8.5**		1.30	500	PB
Sokalan® CP 10 S 🌱	Polyacrylic acid, modified	Liquid	50	4 000	2		1.16	150	PB
Sokalan® CP 12 S 🌱	Maleic acid/acrylic acid copolymer	Liquid	50	3 000	1.5		1.23	130	MB
Sokalan® CP 42 Gran 🌱	Polycarboxylate modified, sodium salt	Granules	95		6	540			PB
Sokalan® CP 50	Polycarboxylate, sodium salt	Liquid	approx. 40		5		1.2	350	PB
Sokalan® PA 15 🌱	Polyacrylic acid, sodium salt	Liquid	45	1 200	7		1.31	250	MB
Sokalan® PA 25 CL Granules [‡] 🌱	Polyacrylic acid, sodium salt	Granules	92	5 500	8	600			MB
Sokalan® PA 25 CL PN* 🌱	Polyacrylic acid, sodium salt, partially neutralized	Liquid	49	5 500	3.5		1.25	600	MB
Sokalan® PA 30 CL [‡] 🌱	Polyacrylic acid, sodium salt	Liquid	45	8 000	8		1.34	1000	MB
Sokalan® PA 30 CL PN Granules [‡] * 🌱	Polyacrylic acid, sodium salt, partially neutralized	Granules	93	8 000	4	620			MB

Note:

* = partially neutralized; ** = undiluted, DIN 19268

‡ = Food and Nonfood use EPA Inert Ingredients

Polyethyleneimines

Product	Chemical Nature	Physical Form	Active Matter [%]	Molecular weight	pH [1% in dist. Water]	Density [g/cm ³]	Viscosity (mPa-S)	Charge density (meq/g TS)	Biodegradability Level
Lupasol® FG	Polyethyleneimine	Liquid	99	800	11	1.02	~1500	16	PB
Lupasol® G 20 [†]	Polyethyleneimine	Liquid	50	1,300	11	1.08	~1500	16	PB
Lupasol® G 20 Waterfree [†]	Polyethyleneimine	Liquid	99	1,300	11	1.03	~8000	16	PB
Lupasol® G 100 [†]	Polyethyleneimine	Liquid	50	5,000	11	1.08	~1100	16	PB
Lupasol® HF	Polyethyleneimine	Liquid	56	25,000	11	1.08	~11000	17	PB
Lupasol® P [†]	Polyethyleneimine	Liquid	50	750,000	11	1.09	~25000	17	MB
Lupasol® PR 8515 [†]	Polyethyleneimine	Liquid	99	2,000	11*	1.05	~14000	16	PB
Lupasol® PS [†]	Polyethyleneimine	Liquid	33	750,000	11**	1.08	~1700	17	PB
Lupasol® SK [†]	Modified Polyethyleneimine	Liquid	24	2,000,000	7*	1.06	~475	8	PB
Lupasol® WF [†]	Polyethyleneimine	Liquid	99	25,000	11	1.10	>200000	17	PB

Note:

* = pH [10% in dist. Water]; ** = pH [as is]; † = Nonfood use EPA Inert Ingredients

Special Polymers

Product	Chemical Nature	Physical Form	Active Matter [%]	Molar mass [g/mol]	pH [10% in dist. Water]	Bulk Density [g/L]	Density [g/cm ³]	Viscosity [mPa-s]	% Biobased Carbon	Biodegradability Level
Polyquart® Ecoclean [†]	Amphoteric modified starch	Liquid	22		5.6**		1.10	300	ask for details	RB
Polyquart® PN 60	Polyethyleneimine, modified	Liquid	40		4		1.13	500		PE
Polyquart® PRO A (US) [†]	Acrylic copolymer, sodium salt	Liquid	22		6.5**		1.03	250		MB
Sokalan® HP 20	Multifunctional polyethyleneimine	Liquid	80		10*		1.12 (25 °C)	850 (25 °C)		MB
Sokalan® HP 22 G [†]	Nonionic copolymer	Liquid	20	30 000	6		1.03	300		MB
Sokalan® HP 50 [†]	Polyvinylpyrrolidone	Powder	96	40 000	4	400				PB
Sokalan® HP 56 Granules	Vinylpyrrolidone/ Vinylimidazole copolymer, modified	Granules	95	70 000	8	450				PB
Sokalan® HP 56 K	Vinylpyrrolidone/ Vinylimidazole copolymer, modified	Liquid	30	70 000	8		1.07	300		PB
Sokalan® HP 66 K	Vinylpyrrolidone/ Vinylimidazole copolymer, modified	Liquid	41		8		1.10	2000		PB
Sokalan® HP 96	Quaternated Hexa-methylene diamine, ethoxylated	Liquid	70		9.5		1.13	350		PB
Sokalan® HP 165 [‡]	Polyvinylpyrrolidone	Liquid	30		3–7					MB
Sokalan® K 17 P [†]	Polyvinylpyrrolidone	Powder	98	9 000	4	450				PB
Sokalan® K 90 P [†]		Powder	98	14 000	7	450				PB

Note:

* = pH 1% in dist. Water; ** = undiluted, DIN 19268; † = Nonfood use EPA Inert Ingredients; ‡ = Food and Nonfood use EPA Inert Ingredients

Thickeners

Product	Chemical Nature	Physical Form	Active Matter [%]	pH	Bulk Density [g/L]	Density [g/cm ³]	Viscosity [mPa·s]	Biodegradability Level
Rheovis® AT 120 [†]	Methacrylic acid/acrylic acid ester copolymer, modified	Dispersion	30	3		1.05	30	
Rheovis® CDE PRO [†]	Polyacrylate, cationically modified	Dispersion	50	3.5**		1.00	150	PE
Rheovis® FRC [†]		Dispersion	55	3.5**		1.05	3000	PE
Rheovis® TTA [†] 	Acrylic copolymer, modified	Dispersion	30	2**		1.07	10**	PB

** = undiluted, DIN 19268

all Polymer data are to be seen as approximately values

Note:

† = Nonfood use EPA Inert Ingredients

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