

The BASF logo, consisting of a white square with a smaller white square inside, followed by the letters "BASF" in a bold, white, sans-serif font.

We create chemistry

Agrochemical additives

by BASF Industrial Formulators Europe

Agrochemical additives

Product Portfolio

Solvents and base oils

Dimethyl amides
Alkyl & methyl esters
Carbonates

Adjuvants

Alkoxyated alcohols
Alkyl polyglucosides
Alkyl ether sulfate
Betaines
Sulfosuccinates

Dispersants

EO-PO-EO copolymers
Polycarboxylates
Sulfonic acid condensates

We offer products from a **broad technology base** from both petrochemical and renewable raw materials

Non-ionic emulsifiers

Castor oil ethoxylates
EO-PO-EO copolymers
Sorbitol ester ethoxylates

Ionic emulsifiers

Alkyl benzene sulfonates
Alkyl ether sulfates
Alkyl sulfates

Stickers and stabilizer

Epoxidised oil
Polyvinylpyrrolidone homo- and copolymers

Chelating agents

EDTA



Sustainability

Bio-based carbon^{a)}

Product classification	Bio-based carbon [X% of total C]	Icon
Wholly bio-based	$X \geq 95$	
Majority bio-based	$95 > X > 50$	
Minority bio-based	$50 \geq X > 5$	
Non bio-based	$X \leq 5$	

Biodegradability^{b)}

Readily biodegradable according to OECD 301	
Not readily biodegradable	

Labeling^{c)}

Label-free according to GHS EU criteria	
Labeled according to GHS EU criteria	

RSPO certification^{d)}

Available with RSPO mass balance certification	
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Product Carbon Footprint

Product with negative PCF (cradle-to-gate) ^{e)}	
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^{a)} According to the EN17035 surfactants classification

^{b)} In case of mixture all organic components are readily biodegradable

^{c)} Status of Feb 2025. Please check the latest MSDS

^{d)} RSPO - Roundtable on Sustainable Palm Oil

^{e)} Bio-based product with negative/zero cradle-to-gate product carbon footprint. The PCF calculations follow the requirements and guidance given by ISO 14067:2018



Regulatory status and inventory listing

The information in the document is provided for guidance only

Inventory registrations

Registration, exemption status	Icon
Registered	
Registered with restrictions	
Not registered	

EPA approval status of trade name inert ingredients used in pesticide products

40 CFR §180.910 Inert ingredients used pre- and post-harvest	910
40 CFR §180.920 Inert ingredients used pre-harvest	920
40 CFR §180.950 Minimal risk active and inert ingredients	950
40 CFR §180.960 Polymers	960
Trade name is not listed (NL) in EPA data base yet	NL
CAS number is not listed in EPA data base yet	

Products containing EPA 4B listed ingredients

Product components are on list 4B	
Product components are not on list 4B	




Notes:

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Solvents and co-solvents

Dimethyl amides

	Agnique® AMD 810	Agnique® AMD 10	Agnique® AMD 12	Agnique® AMD 3 L
Products and functions	Dimethyl amides			
Description	C ₈ /C ₁₀ N,N-dimethyl amide	C ₁₀ N,N-dimethyl amide	C ₁₂ N,N-dimethyl amide	N,N-dimethyl lactamide
CAS number¹⁾	REACH 01-2119974115-37	14433-76-2	3007-53-2	35123-06-9
Function	Versatile solvent with exceptional solubility characteristics	Hydrophobic solvent, suitable for triazoles	Highly hydrophobic solvent	Sustainable label-free, water-miscible solvent, NMP alternative
Formulation type	EC, EW, SE	EC, EW, SE	EC, EW, SE	EC, DC, SE
Sustainability				
Bio-based carbon				
Biodegradability				
Labeling				
RSPO MB certification				
Product properties				
Appearance	Yellow liquid	Yellow liquid	Yellow liquid	Yellow liquid
Active content (%)	100	100	100	100
Hansen SP $\delta_d/\delta_p/\delta_h$ (MPas^{1/2})	15.8 / 5.3 / 6.0	15.9 / 4.8 / 5.7	15.9 / 4.5 / 4.7	16.5 / 11.9 / 14.2
Density at 25°C (kg/l)	0.88	0.88	0.87	1.05
Boiling point (°C)	274	290	> 290	223
Solubility in water (g/L)	3.1	0.74	0.26	Miscible
Flash point (°C)	> 120	> 120	> 119	103
Freezing point (°C)	- 21	- 6	8	- 60 (pour point)
Registration/ Exemption				
China	IECSC	●	●	●
EU	REACH ²⁾	●	●	●
USA	TSCA ³⁾	●	●	○
USA EPA:	40 CFR 180	920	920	910, max. 20% by weight
USA EPA:	4B List ⁴⁾			910, max. 50% by weight

¹⁾ CAS number of main component






²⁾ The product may be traded inside the European Union, i.e. the ingredients are either registered or exempted

³⁾ Listed as active in TSCA inventory

⁴⁾ Per internal review OMRI eligible product

Solvents and co-solvents

Other

	Agnique® AE 3-2 EH	Propylene Carbonate S
Products and functions	Alkyl esters	Carbonate
Description	2-Ethylhexyl lactate ester	Propylene carbonate
CAS number¹⁾	186817-80-1	108-32-7
Function	Hydrophobic solvent with adjuvant properties	Polar, aprotic solvent, miscible with water
Formulation type	EC, EW, SE	EC, EW, SE, DC, SC
Sustainability		
Bio-based carbon		
Biodegradability		
Labeling		
RSPO MB certification		
Product properties		
Appearance	Clear liquid	Colorless liquid
Active content (%)	100	100
Hansen SP $\delta_d/\delta_p/\delta_h$ (MPas^{1/2})	16.0 / 4.0 / 11.0	19.2 / 17.0 / 5.2
Density at 25°C (kg/l)	0.94	1.21 at 20 °C
Boiling point (°C)	246	241.8
Solubility in water (g/L)	0.43	175
Flash point (°C)	113	116
Freezing point (°C)	< -20	< -48
Registration/ Exemption		
China	IECSC	
EU	REACH ²⁾	
USA	TSCA ³⁾	
USA EPA:	40 CFR 180	920
USA EPA:	4B List ⁴⁾	950

¹⁾ CAS number of main component















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⁴⁾ Per internal review OMRI eligible product

Solvents and base oils

Alkyl and methyl esters

	Agnique® AE 829	Agnique® ME 1218	Agnique® ME 18 SD-F	Agnique® ME 18 RD-F	Agnique® BL 3095
Products and functions	Alkyl ester	Methyl esters			
Description	1,2-Cyclohexane dicarboxylic acid, di-isononyl ester	C ₁₂ -C ₁₈ fatty acid methyl esters	Soybean oil fatty methyl ester	Rapeseed oil fatty methyl ester	Emulsifiable methylated rapeseed oil
CAS number¹⁾	166412-78-8	1234694-02-0	67762-38-3	67762-38-3	Proprietary
Function	Label-free penetrant, suitable as base oil in ODs	Label-free hydrophobic solvent and adjuvant	Suitable as a carrier for oil dispersions and as a base for adjuvants		OD basis and tank-mix adjuvant for systemic a.i.s
Formulation type	OD	EC, EW, OD	EC, EW, OD	EC, EW, OD	OD, tank-mix adjuvant
Sustainability					
Bio-based carbon, PCF					
Biodegradability					
Labeling					
RSPO MB certification					
Product properties					
Appearance	Clear liquid	Yellow liquid	Yellow liquid	Yellow liquid	Yellow liquid
Active content (%)	100	100	100	100	94
Hansen SP $\delta_d/\delta_p/\delta_h$ (MPas^{1/2})	16.1 / 4.3 / 5.0	15.9 / 3.4 / 4.2	16.4 / 4.3 / 4.1	16.2 / 3.5 / 4.1	n.d.
Density at 25°C (kg/l)	0.95	0.87	0.88	0.88	0.88
Boiling point (°C)	394	not determined	~355	~355	350 - 365
Solubility in water (g/L)	Insoluble	Insoluble	Insoluble	Insoluble	Emulsifiable
Flash point (°C)	224	130	> 100	174	~170
Freezing point (°C)	-54	-7.5	< - 5	< -10	~ -51
Registration/ Exemption					
China	IECSC	●	●	●	●
EU	REACH ²⁾	●	●	●	●
USA	TSCA ³⁾	●	●	●	●
USA EPA:	40 CFR 180		910	910	910
USA EPA:	4B List ⁴⁾			●	●

¹⁾ CAS number of main component











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Adjuvants for amino acids herbicides

Alkyl polyglycosides

	Agnique® PG 8105-G	Agnique® PG 8107-G	Agnique® PG 8102	Glucopon® 650 EC
Products and functions	Alkyl polyglycosides			
Description	C ₈ /C ₁₀ alkyl polyglycoside (D.P. = 1.5)	C ₈ /C ₁₀ alkyl polyglycoside (D.P. = 1.7)	Low foam, C ₈ alkyl polyglycoside	C _{8/10/12/14/16} alkyl polyglycoside (D.P. = 1.5)
CAS number¹⁾	68515-73-1	68515-73-1	proprietary	110615-47-9, 68515-73-1
Function	Excellent Glyphosate adjuvant, compatibilizer in saline solutions	Outstanding Glyphosate adjuvant, compatibilizer, wetting agent	Suitable for Glufosinate SL and Glyphosate SL	Best candidate for wetting and low contact angles on mono- & dicots
Formulation type	SL, SC	SL, SC	SL, SC	SL, SC
Sustainability				
Bio-based carbon				
Biodegradability				
Labeling				
RSPO MB certification				
Product properties				
Appearance	Yellow liquid	Dark brown liquid	Clear yellowish to brownish liquid	Yellow cloudy liquid
Active content (%)	~63	~70	~62	~52
Viscosity at 23°C (mPa·s)	2000 at 25°C	3400	360	1750
Density at 20°C (kg/l)	1.14	1.16	1.16	1.08
Solubility in water²⁾	Soluble	Soluble	Soluble	Opaque soluble
SST (mN/m)³⁾	33.6	37.7	44.4	28.6
DST at 0.1 s (mN/m)³⁾	62.8	63.9	65.4	51.9
CMC (g/L)	0.54	0.40	0.45	0.05
Registration/ Exemption				
China	IECSC			
EU	REACH ⁴⁾			
USA	TSCA ⁵⁾			
USA EPA:	40 CFR 180	910	910	910
USA EPA:	4B List ⁶⁾			

¹⁾ CAS number of main component

²⁾ Solubility in water: soluble ≥ 2g/l; insoluble < 2g/l

³⁾ Static and dynamic surface tension (SST and DST) measured at 0.05% concentration









⁴⁾ REACH registration: The product may be traded inside the European Union (EU), i.e. the ingredients are either registered or exempted

⁵⁾ Listed as active in TSCA inventory

⁶⁾ Per internal review OMRI eligible product

Adjuvants for amino acids herbicides

Alkyl ether sulfate and betains

	Agnique® SLES-370	Agnique® AMP 12 B	Agnique® GLP 45
Products and functions	Alkyl ether sulfate	Betains	
Description	Sodium lauryl ether sulfate (2 EO)	Trialkyl betaine	Cocoamidopropyl betaine
CAS number¹⁾	68891-38-3	66455-29-6	147170-44-3
Function	Adjuvant of choice for Glufosinate	Alternative wetting agent for Glyphosate	Alternative wetting agent for Glyphosate
Formulation type	SL	SL	SL
Sustainability			
Bio-based carbon			
Biodegradability			
Labeling			
RSPO MB certification			
Product properties			
Appearance	Paste	Liquid	Liquid
Active content (%)	70	~31	~45
Viscosity at 23°C (mPa·s)	> 10.000	<20	~53
Density at 20°C (kg/l)	1.08	~1.03	~1.07
Solubility in water²⁾	Soluble	Soluble	Soluble
SST (mN/m)³⁾	27.1	32.6	33.5
DST at 0.1 s (mN/m)³⁾	61.0	42.5	56.1
CMC (g/L)	0.26	0.1	0.018
Registration/ Exemption			
China	IECSC	●	●
EU	REACH ⁴⁾	●	●
USA	TSCA ⁵⁾	●	●
USA EPA:	40 CFR 180	910	NL
USA EPA:	4B List ⁶⁾		NL

¹⁾ CAS number of main component

²⁾ Solubility in water: soluble ≥ 2g/l; insoluble < 2g/l

³⁾ Static and dynamic surface tension (SST and DST) measured at 0.05% concentration









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Adjuvants: broad-spectrum

Alkyl alcohol alkoxyates

	Agnique® KE 3551	Dehypon® LS 54	Dehypon® 2574	Lutensol® ON 50	Lutensol® TO 8
Products and functions	Alkoxyated alcohols				
Description	Guerbet alcohol alkoxyate	Fatty alcohol alkoxyate	Fatty alcohol alkoxyate	Oxo alcohol ethoxyate	Isotridecyl alcohol ethoxyate
CAS number¹⁾	64366-70-7	68439-51-0	68154-97-2	78330-20-8	69011-36-5
Function	Multifunctional adjuvant, good retention enhancer	Versatile adjuvant, uptake enhancer for systemic a.i.s	Sustainable adjuvant, outstanding wetting agent	Excellent wetting agent, good penetrator	Multifunctional adjuvant, outstanding uptake enhancer
Formulation type	EC, EW, OD	SC, EC, OD	EC, SC	SC, EC, OD	EC, EW, OD
Sustainability					
Bio-based carbon					
Biodegradability					
Labeling					
RSPO MB certification					
Product properties					
Appearance	Colorless to yellowish liquid	Liquid	Yellowish liquid	Liquid	Liquid
Active content (%)	100	100	100	100	100
Viscosity at 23°C (mPa·s)	100	~60	90	160	300
Density at 20°C (kg/l)	1.00 at 23 °C	0.97	0.99	0.98	1.01
Solubility in water²⁾	Soluble	Soluble	Insoluble	Soluble	Soluble
SST (mN/m)³⁾	31.9	30.4	31.6	27.5	28.6
DST at 0.1 s (mN/m)³⁾	47.0	45.5	48.4	37.6	55.7
CMC (g/L)	0.17	0.01	0.02	0.53	0.04
Registration/ Exemption					
China	IECSC	●	●	●	●
EU	REACH ⁴⁾	●	●	●	●
USA	TSCA ⁵⁾	●	●	●	●
USA EPA:	40 CFR 180	910	910	910	NL
USA EPA:	4B List ⁶⁾				910

¹⁾ CAS number of main component

²⁾ Solubility in water: soluble ≥ 2g/l; insoluble < 2g/l

³⁾ Static and dynamic surface tension (SST and DST) measured at 0.05% concentration




















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⁶⁾ Per internal review OMRI eligible product

Adjuvants: broad-spectrum

Alkyl alcohol alkoxyates

	Lutensol® XL 50	Lutensol® XL 70	Lutensol® XP 80	Plurafac® LF 221	Plurafac® LF 802
Products and functions	Alkoxyated alcohols				
Description	Guerbet alcohol alkoxyate	Guerbet alcohol alkoxyate	Guerbet alcohol alkoxyate	Oxo alcoho alkoxyate	Fatty alcohol alkoxyate
CAS number¹⁾	166736-08-9	166736-08-9	160875-66-1	Proprietary	Proprietary
Function	Low foaming multifunctional adjuvant, wetting agent	Excellent wetting soil wetting agent	Broad spectrum adjuvant for retention and uptake	Adjuvant for retention, wetting, uptake enhancer	Sustainable allrounder adjuvant
Formulation type	SC, EC, OD	EC, OD	EC, SC, OD	SC, EW	SC, EW, SE
Sustainability					
Bio-based carbon					
Biodegradability					
Labeling					
RSPO MB certification					
Product properties					
Appearance	Liquid	Liquid	Liquid	Clear liquid	Liquid
Active content (%)	100	100	100	95	85
Viscosity at 23°C (mPa·s)	50	120	300	100	260
Density at 20°C (kg/l)	0.97	1.01	1.00 at 25°C	1.00 at 25°C	1.03
Solubility in water²⁾	Opaque soluble	Soluble	Soluble	Soluble	Soluble
SST (mN/m)³⁾	28.0	28.2	30.5	30.6	31.6
DST at 0.1 s (mN/m)³⁾	40.3	40.5	42.1	66.5	54.0
CMC (g/L)	0.23	0.28	0.54	0.01	0.04
Registration/ Exemption					
China	IECSC				
EU	REACH ⁴⁾				
USA	TSCA ⁵⁾				
USA EPA:	40 CFR 180	910	910	910	NL
USA EPA:	4B List ⁶⁾				

¹⁾ CAS number of main component

²⁾ Solubility in water: soluble ≥ 2g/l; insoluble < 2g/l

³⁾ Static and dynamic surface tension (SST and DST) measured at 0.05% concentration

⁴⁾ REACH registration: The product may be traded inside the European Union (EU), i.e. the ingredients are either registered or exempted

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⁶⁾ Per internal review OMRI eligible product

Adjuvants: retention agents

Alkyl alcohol alkoxyates, EO-PO-EO copolymers

	Lutensol® XP 30	Lutensol® XP 70	Lutensol® TO 10	Pluronic® PE 6200
Products and functions	Alkoxyated alcohols			EO-PO-EO copolymer
Description	Guerbet alcohol alkoxyate	Guerbet alcohol alkoxyate	Isotridecyl alcohol ethoxylate	EO-PO-EO block copolymer (~20% EO; Mw ~ 2450 g/mol)
CAS number¹⁾	160875-66-1	160875-66-1	69011-36-5	9003-11-6
Function	Highly dynamic surfactant with low foam potential	Exceptional retention agent	Strong in retention, decent wetting agent	Polymer with outstanding retention
Formulation type	EC, OD	EC, SC, OD	EC, SC, OD	EC, OD
Sustainability				
Bio-based carbon				
Biodegradability				
Labeling				
RSPO MB certification				
Product properties				
Appearance	Liquid	Liquid	Liquid	Liquid
Active content (%)	100	100	100	100
Viscosity at 23°C (mPa·s)	~25	~290	50000 (110 at 30 °C)	350
Density at 20°C (kg/l)	~0.95	0.99	0.97 at 60 °C	1.04
Solubility in water²⁾	Insoluble	Soluble	Soluble	Soluble
SST (mN/m)³⁾	29.0	30.7	28.8	43.4
DST at 0.1 s (mN/m)³⁾	35.9	38.8	42.9	48.6
CMC (g/L)	0.31	0.55	0.05	no micelle formation
Registration/ Exemption				
China	IECSC	●	●	●
EU	REACH ⁴⁾	●	●	●
USA	TSCA ⁵⁾	●	●	●
USA EPA:	40 CFR 180	NL	910	960
USA EPA:	4B List ⁶⁾			●

¹⁾ CAS number of main component

²⁾ Solubility in water: soluble ≥ 2g/l; insoluble < 2g/l

³⁾ Static and dynamic surface tension (SST and DST) measured at 0.05% concentration




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Adjuvants: wetting agents

Alkyl alcohol alkoxyates, Sulfosuccinates

	Plurafac® LF 300	Plurafac® LF 400	Lutensit® A-BO
Products and functions	Alkoxyated alcohols		Sulfosuccinate
Description	Oxo alcohol alkoxyate	Guerbet alcohol alkoxyate	Di-isooctyl sulfosuccinate, Na salt in neopentyl glycol/water
CAS number¹⁾	196823-11-7	120313-48-6	577-11-7
Function	Excellent wetting agent and good uptake enhancer	Gives low contact angles, versatile compatibility to various solvents	Wetting and retention agent without flammable components
Formulation type	SC, EC, OD	SC, EC, OD	SC, EW, SE
Sustainability			
Bio-based carbon			
Biodegradability			
Labeling			
RSPO MB certification			
Product properties			
Appearance	Liquid	Liquid	Liquid
Active content (%)	100	100	60
Viscosity at 23°C (mPa·s)	75	70	2000
Density at 23°C (kg/l)	0.97	0.97	1.10
Solubility in water²⁾	Insoluble	Soluble	Soluble
SST (mN/m)³⁾	28.4	29.8	38.4
DST at 0.1 s (mN/m)³⁾	50.7	52.1	52.1
CMC (g/L)	0.02	0.01	1.42
Registration/ Exemption			
China	IECSC	●	●
EU	REACH ⁴⁾	●	●
USA	TSCA ⁵⁾	●	●
USA EPA:	40 CFR 180	910	NL
USA EPA:	4B List ⁶⁾		

¹⁾ CAS number of main component

²⁾ Solubility in water: soluble ≥ 2g/l; insoluble < 2g/l

³⁾ Static and dynamic surface tension (SST and DST) measured at 0.05% concentration
















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Adjuvants: uptake enhancer

Others

	Agnique® SBO 10		Agnique® FOH 9 OC-5		Agnique® BL 3648		Agnique® BL 8755		Lutensol® TO 6		
Products and functions	Ethoxylated triglycerides		Ethoxylated fatty alcohol		Blend		Blend		Oxo alcohol ethoxylate		
Description	Soybean oil ethoxylate (10 EO)		Oleyl-cetyl alcohol ethoxylate (3 EO)		Proprietary		Fatty alcohol ethoxylate blend		Isotridecyl alcohol ethoxylate		
CAS number¹⁾	61791-23-9		68920-66-1		Proprietary		68439-49-6		69011-36-5		
Function	Sustainable penetrator, suitable for biologics		Sustainable uptake enhancer, OMRI listed		In-can adjuvant for EC of FOPs and DIMs		Suitable for systemics with protective & curative action		Multifunctional adjuvant with strength in uptake		
Formulation type	EC, OD		EC, EW		EC		SC		EC, OD		
Sustainability											
Bio-based carbon, PCF	 		 		 						
Biodegradability											
Labeling											
RSPO MB certification											
Product properties											
Appearance	Liquid		Liquid		Liquid		Soft paste (m.p. 37 °C)		Liquid		
Active content (%)	100		100		100		52		100		
Viscosity at 23°C (mPa·s)	170		60		12 – 16 at 40 °C		50 at 40 °C		75		
Density at 23°C (kg/l)	0.98		0.95		~0.89 at 20 °C		1.016 at 40 °C		0.97		
Solubility in water²⁾	Insoluble		Turbid		Emulsifiable		Soluble		Insoluble		
SST (mN/m)³⁾	34.0		33.5		n.d.		40.7		27.6		
DST at 0.1% s (mN/m)³⁾	73.0		73.3		n.d.		61.0		55.3		
CMC (g/L)	0.09		0.12		n.d.		0.02		0.03		
Registration/ Exemption											
China	IECSC		●		●		●		●		
EU	REACH ⁴⁾		●		●		●		●		
USA	TSCA ⁵⁾		●		●		●		●		
USA EPA:	40 CFR 180		960		910		NL		910		
USA EPA:	4B List ⁶⁾		●		●						

¹⁾ CAS number of main component

²⁾ Solubility in water: soluble ≥ 2g/l; insoluble < 2g/l

³⁾ Static and dynamic surface tension (SST and DST) measured at 0.05% concentration



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⁶⁾ Per internal review OMRI eligible product

Adjuvants: uptake enhancer

Others

	Agnique® GTC	Plurafac® LF 1300
Products and functions	Triglyceride	Alkoxylated alcohols
Description	Glycerides, mixed decanoyl and octanoyl	Fatty alcohol alkoxylate
CAS number¹⁾	73398-61-5	68002-96-0
Function	Plasticizer, penetrant and base oil	Sustainable uptake enhancer
Formulation type	OD	SC, EC, EW
Sustainability		
Bio-based carbon, PCF		
Biodegradability		
Labeling		
RSPO MB certification		
Product properties		
Appearance	Clear, slightly yellowish oil	Liquid
Active content (%)	100	100
Viscosity at 23°C (mPa·s)	~ 30 at 20 °C	130
Density at 23°C (kg/l)	~0.95 at 25°C	0.97
Solubility in water²⁾	Insoluble	Insoluble
SST (mN/m)³⁾	n.d.	33.5
DST at 0.1% s (mN/m)³⁾	n.d.	71.0
CMC (g/L)	n.d.	0.05
Registration/ Exemption		
China	IECSC	●
EU	REACH ⁴⁾	●
USA	TSCA ⁵⁾	●
USA EPA:	40 CFR 180	910, 960
USA EPA:	4B List ⁶⁾	●

¹⁾ CAS number of main component

²⁾ Solubility in water: soluble ≥ 2g/l; insoluble < 2g/l

³⁾ Static and dynamic surface tension (SST and DST) measured at 0.05% concentration













⁴⁾ REACH registration: The product may be traded inside the European Union (EU), i.e. the ingredients are either registered or exempted

⁵⁾ Listed as active in TSCA inventory

⁶⁾ Per internal review OMRI eligible product

Non-ionic emulsifiers I

Castor oil ethoxylates

	Agnique® CSO-20	Agnique® CSO-25	Agnique® CSO-30	Agnique® CSO-35	Agnique® CSO-40
Products and functions	Castor oil ethoxylates				
Description	20 EO	25 EO	30 EO	35 EO	40 EO
CAS number¹⁾	61791-12-6	61791-12-6	61791-12-6	61791-12-6	61791-12-6
Function	Emulsifier for hydrophobic oils	Emulsifier for hydrophobic oils	Emulsifier, often combined with CaDDBS	Emulsifier, often combined with Pluronic® PE 9400	Efficient general-purpose non-ionic emulsifier
Formulation type	EC, OD	EC, EW, OD	EC, EW, SE	EC, EW, SE	EC, EW
Sustainability					
Bio-based carbon					
Biodegradability					
Labeling					
RSPO MB certification					
Product properties					
Appearance	Yellowish liquid	Yellowish liquid	Yellowish liquid	Yellowish liquid	Pasty liquid
Active content (%)	100	100	100	100	100
Viscosity at 20°C (mPa·s)	650	110 at 60 °C	800 (150 at 60°C)	600 at 23°C	1300 at 25°C
Density at 20°C (kg/l)	1.03	1.07	1.05	1.04 at 23°C	1.06
Solubility in water²⁾	Opaque soluble	Soluble	Soluble	Soluble	Soluble
Water content (% max.)	0.3	0.3	2.0	0.3	0.3
Cloud point (°C), method	~67 (D)	~72 (E)	~75 (E)	72 (E)	74 (E)
HLB (Griffin)	10	11	12	12.5	13
Registration/ Exemption					
China	IECSC	●	●	●	●
EU	REACH ³⁾	●	●	●	●
USA	TSCA ⁴⁾	●	●	●	●
USA EPA:	40 CFR 180	960	960	960	NL
USA EPA:	4B List ⁵⁾	●	●	●	●

¹⁾ CAS number of main component

²⁾ Solubility in water: soluble ≥ 2g/l; insoluble < 2g/l






³⁾ REACH registration: The product may be traded inside the European Union (EU), i.e. the ingredients are either registered or exempted

⁴⁾ Listed as active in TSCA inventory

⁵⁾ Per internal review OMRI eligible product

Non-ionic emulsifiers II

Other

	Pluronic® PE 6400	Pluronic® PE 9400	Agnique® SPO 40
Products and functions	EO-PO-EO block copolymers	EO-PO-EO block copolymers	Sorbitol ester ethoxylate
Description	EO-PO-EO block copolymer (~40% EO content)	EO-PO-EO block copolymer (~40% EO content)	Sorbitol hexaoleate ethoxylate (40 EO)
CAS number¹⁾	9003-11-6	9003-11-6	57171-56-9
Function	Non-ionic emulsifier, often combined with Agnique® CSO-35	Non-ionic emulsifier, often combined with Agnique® CSO-35	Good general-purpose label-free oil-in-water emulsifier
Formulation type	EC, EW, SE	EC, EW, SE	EC, EW, spore formulations
Sustainability			
Bio-based carbon			
Biodegradability			
Labeling			
RSPO MB certification			
Product properties			
Appearance	Liquid	Waxy solid (mp 32 °C)	Yellow liquid
Active content (%)	100	100	~99.5
Viscosity at 25°C (mPa·s)	1000	-	1000
Density at 20°C (kg/l)	~1.05 at 23 °C	1.03	1.02
Solubility in water²⁾	Soluble	Soluble	Insoluble
Water content (% , max.)	n.d.	0.3	0.5
Cloud point (°C), method	69 (E)	80 (E)	n.d.
HLB (Griffin)	15	14	11
Registration/ Exemption			
China	IECSC	●	●
EU	REACH ⁴⁾	●	●
USA	TSCA ⁵⁾	●	●
USA EPA:	40 CFR 180	NL	NL
USA EPA:	4B List ⁶⁾	●	●

¹⁾ CAS number of main component

²⁾ Solubility in water: soluble ≥ 2g/l; insoluble < 2g/l















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Ionic emulsifiers / surfactants

Alkyl benzene sulfonates and alkyl (ether) sulfates

	Agnique® ABS 70 C	Agnique® ABS 58 C-EH	Agnique® ABS 60 C-EH	Agnique® SLS 90 P
Products and functions	Alkyl benzene sulfonates			Alkyl sulfates
Description	Alkyl benzene sulfonate in <i>iso</i> -butanol	Alkyl benzene sulfonate in 2-ethylhexanol & propylene glycol	Alkyl benzene sulfonate in 2-ethylhexanol	Sodium dodecyl sulfate
CAS number¹⁾	84989-14-0, 78-83-1	84989-14-0, 104-76-7	84989-14-0, 104-76-7	151-21-3
Function	Anionic emulsifier, typically combined with castor oil ethoxylate	Anionic emulsifier with high flash point, typically combined with CSO	Anionic emulsifier with high flash point, typically combined with CSO	Enhances disintegration of solid formulations
Formulation type	EC, EW, SE, OD	EC, EW	EC, EW, SE, OD	WG, WP
Sustainability				
Bio-based carbon				
Biodegradability				
Labeling				
RSPO MB certification				
Product properties				
Appearance	Yellow liquid	Brown liquid	Brown liquid	White powder
Active content (%)	70	58	60	> 99
Viscosity at 20°C (mPa·s)	>10000	~3500 at 23 °C	515	-
Density at 20°C (kg/l)	1.03	~1.00	~1.00	~0.25
Solubility in water²⁾	Insoluble	Insoluble	Insoluble	Soluble
SST (mN/m)³⁾	~29	n.d.	~29	~43
Flash point (°C)	28	75	85	170
Freezing point (°C)	< -10	< -10	-20	-
Registration/ Exemption				
China	IECSC			
EU	REACH ⁴⁾			
USA	TSCA ⁵⁾			
USA EPA:	40 CFR 180	NL	910	910
USA EPA:	4B List ⁶⁾			

¹⁾ CAS number of main component

²⁾ Solubility in water: soluble ≥ 2g/l; insoluble < 2g/l

³⁾ Static surface tension (SST) measured at 0.05% concentration




⁴⁾ REACH registration: The product may be traded inside the European Union (EU), i.e. the ingredients are either registered or exempted

⁵⁾ Listed as active in TSCA inventory

⁶⁾ Per internal review OMRI eligible product

Dispersants I

EO-PO-EO block copolymers

	Pluronic® PE 10400	Pluronic® PE 10500	Pluronic® PE 10500 solution B
Products and functions	EO-PO-EO block copolymers		
Description	EO-PO-EO block copolymer (~40% EO content)	EO-PO-EO block copolymer (~50% EO content)	EO-PO-EO block copolymer (~50% EO content)
CAS number¹⁾	9003-11-6	9003-11-6	9003-11-6
Function	Non-ionic dispersant for SC and SE	Non-ionic dispersant for SC and SE	Non-ionic dispersant for SC and SE
Formulation type	SC, SE	SC, SE	SC, SE
Sustainability			
Bio-based carbon			
Biodegradability			
Labeling			
RSPO MB certification			
Product properties			
Appearance	Paste	Paste	Liquid
Active content (%)	100	100	~18
Molar weight (g/mol)	5900	6500	6500
Viscosity at 23°C (mPa·s)	-	-	10
Density at 23°C (kg/l)	-	-	1.0
Solubility in water²⁾	Soluble	Soluble	Soluble
SST (mN/m)³⁾	38	39	39
Freezing point (°C)	34	44	-9
Registration/ Exemption			
China	IECSC	●	●
EU	REACH ⁴⁾	●	●
USA	TSCA ⁵⁾	●	●
USA EPA:	40 CFR 180	960	960
USA EPA:	4B List ⁶⁾	●	●
			non-food use only

¹⁾ CAS number of main component

²⁾ Solubility in water: soluble ≥ 2g/l; insoluble < 2g/l

³⁾ Static surface tension (SST) measured at 1g/L concentration



⁴⁾ REACH registration: The product may be traded inside the European Union (EU), i.e. the ingredients are either registered or exempted

⁵⁾ Listed as active in TSCA inventory

⁶⁾ Per internal review OMRI eligible product

Dispersants II

Polycarboxylates

	Agnique® CP 72 L	Sokalan® CP 9	Sokalan® CP 9 powder	Sokalan® CP 10	Sokalan® NR 2595
Products and functions	Polycarboxylates				
Description	Copolymer based on vinyl acetate	Maleic acid/olefin copolymer, Na salt	Maleic acid/olefin copolymer, Na salt	Modified polyacrylic acid	Polyacrylate
CAS number¹⁾	Proprietary	37199-81-8	37199-81-8	Proprietary	Proprietary
Function	Dispersant for SC, stable in SC at pH ~3	Dispersants for SC, WG and WP. Acts as crystal growth inhibitor (prevent Ostwald ripening)		Dispersant for SC	Dispersant for inorganics, e.g. CaCO ₃ and Kaolin
Formulation type	SC, DC	SC, FS	WG, WP	SC	SC
Sustainability					
Bio-based carbon					
Biodegradability					
Labeling					
RSPO MB certification					
Product properties					
Appearance	Yellow liquid	Hazy to clear liquid	Powder	Yellow liquid	Colorless to yellowish liquid
Active content (%)	73	25	> 89	45	45
Molar weight (g/mol)	26000	12000	12000	3500	4500
Viscosity at 23°C (mPa·s)	2500 at 60°C	~80	-	500	~700 at 25°C
Density at 20°C (kg/l)	1.13	1.11 at 25°C	0.45 (bulk)	1.25 at 23°C	1.3 at 25°C
Solubility in water²⁾	Soluble	Soluble	Soluble	Soluble	Soluble
SST (mN/m)³⁾	36	50	50	n.d.	n.d.
Freezing point (°C)	5	-5	-	~0	-15
Registration/ Exemption					
China	IECSC	●	●	●	●
EU	REACH ⁴⁾	●	●	●	●
USA	TSCA ⁵⁾	●	●	●	●
USA EPA:	40 CFR 180	960	960	960	non-food use only
USA EPA:	4B List ⁶⁾		●	●	NL

¹⁾ CAS number of main component

²⁾ Solubility in water: soluble ≥ 2g/l; insoluble < 2g/l

³⁾ Static surface tension (SST) measured at 1g/L concentration



⁴⁾ REACH registration: The product may be traded inside the European Union (EU), i.e. the ingredients are either registered or exempted

⁵⁾ Listed as active in TSCA inventory

⁶⁾ Per internal review OMRI eligible product

Dispersants III

Other

	Tamol® NH 7519	Tamol® NN 8906	Tamol® DN	Sokalan® CP 301
Products and functions	Sulfonic acid condensates			confidential
Description	Naphthalene sulfonic acid formaldehyde condensate, sodium salt		Phenol sulfonic acid formaldehyde condensate, sodium salt	Non-ionic polymer
CAS number¹⁾	9084-06-4	9084-06-4	102980-04-1	proprietary
Function	General anionic dispersant	General anionic dispersant	General anionic dispersant, combined with Pluronic® PE 10500	Versatile dispersant (stable in SC at pH ~3), crystal growth inhibitor
Formulation type	SC, WG	SC, WG	SC, WG	SC, DC
Sustainability				
Bio-based carbon				
Biodegradability				
Labeling				
RSPO MB certification				
Product properties				
Appearance	Powder	Powder	Powder	Solid
Active content (%)	78	89	88	92
Molar weight (g/mol)	-	-	-	2700
Viscosity at 25°C (mPa·s)	-	-	-	124 at 60 °C
Density at 25°C (kg/l)	0.50 (bulk)	0.50 (bulk)	0.45 (bulk)	1.162 at 20 °C
Solubility in water²⁾	Soluble	Soluble	Soluble	Soluble
SST (mN/m)³⁾	-	-	-	37.8
Melting point (°C)	n.d.	n.d.	> 150	43
Registration/ Exemption				
China	IECSC	●	●	●
EU	REACH ⁴⁾	●	●	●
USA	TSCA ⁵⁾	●	●	●
USA EPA:	40 CFR 180	910/920	910/920	920
USA EPA:	4B List ⁶⁾	●	●	●

¹⁾ CAS number of main component

²⁾ Solubility in water: soluble ≥ 2g/l; insoluble < 2g/l

³⁾ Static surface tension (SST) measured at 0.5 g/L concentration at 20 °C

⁴⁾ REACH registration: The product may be traded inside the European Union (EU), i.e. the ingredients are either registered or exempted

⁵⁾ Listed as active in TSCA inventory

⁶⁾ Per internal review OMRI eligible product

Sticker and thickener

Polyvinyl pyrrolidones and other

	Sokalan® K 30 P	Sokalan® K 90 P	Sokalan® VA 64 P	Agnique® ESO 81-G
Products and functions	Polyvinylpyrrolidone polymers and copolymers			Epoxidised oils
Description	Polyvinylpyrrolidone	Polyvinylpyrrolidone	Vinylpyrrolidone - vinylacetate copolymer	Epoxidised soybean oil
CAS number¹⁾	9003-39-8	9003-39-8	25086-89-9	8013-07-8
Function	Thickener in combination with xanthan gum. Reduces dust in WG	Binder, film former, and for control of viscosity	Crystal growth inhibitor, binder in seed coatings/FS	Sticker and film-forming agent, stabilizer in OD (radical scavenger)
Formulation type	SC, SE, WG	SC, FS, WG	FS, SC, WG	OD
Sustainability				
Bio-based carbon, PCF				
Biodegradability				
Labeling				
RSPO MB certification				
Product properties				
Appearance	White powder	Powder	White powder	Yellow liquid
Active content (%)	> 95	~98	> 95	~100
Molar weight (g/mol)	50000	1400	65000	-
Viscosity at 20°C (mPa·s)	-	-	-	~500
Density at 25°C (kg/l)	0.45	0.45 (bulk)	0.35	~1.00 at 20°C
Solubility in water²⁾	Soluble	< 270 g/L at 23 °C	Soluble	Insoluble
SST (mN/m)³⁾	64	-	50	-
Freezing point (°C)	-	-	-	< - 5
Registration/ Exemption				
China	IECSC	●	●	●
EU	REACH ³⁾	●	●	●
USA	TSCA ⁴⁾	●	●	●
USA EPA:	40 CFR 180	960	NL	NL
USA EPA:	4B List ⁵⁾	●	●	●

¹⁾ CAS number of main component

²⁾ Solubility in water: soluble ≥ 2g/l; insoluble < 2g/l

³⁾ Static surface tension (SST) measured at 1g/L concentration

⁴⁾ REACH registration: The product may be traded inside the European Union (EU), i.e. the ingredients are either registered or exempted

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⁶⁾ Per internal review OMRI eligible product



Chelating agents

EDTA

	Trilon® BS	Trilon® BX liquid	Trilon® B liquid	Trilon® B Powder
Products and functions	Ethylenediaminetetraacetic acid (EDTA)			
Description	EDTA acid	Tetra sodium salt of EDTA		
CAS number¹⁾	60-00-4	64-02-8	64-02-8	64-02-8
Function	Chelating agent	Chelating agent	Chelating agent	Chelating agent
Formulation type	SL, SC, WG	SL, SC	SL, SC	SL, SC, WG
Sustainability				
Bio-based carbon				
Biodegradability				
Labeling				
RSPO MB certification				
Product properties				
Appearance	White powder	Liquid	Liquid	White powder
Active content (%)	~100	~40 (high purity grade)	~40	~87
pH (23 °C, 1% in water)	~2.8 (slurry)	~11.5	~11.5	~11.5
Density at 20°C (kg/l)	~0.82 (bulk)	1.28	~1.3	0.7 (bulk)
Solubility in water (g/l)	~1	miscible	miscible	miscible
Ca binding capacity (mg CaCO₃ / g t.q.)²⁾	~350	110	~110	~235
Registration/ Exemption				
China	IECSC	●	●	●
EU	REACH ³⁾	●	●	●
USA	TSCA ⁴⁾	●	●	●
USA EPA:	40 CFR 180	910, max 3%	910, max 5%	910, max 5%
USA EPA:	4B List ⁵⁾	●	●	●

¹⁾ CAS number of main component

²⁾ BASF method, pH 11

³⁾ REACH registration: The product may be traded inside the European Union (EU), i.e. the ingredients are either registered or exempted

⁴⁾ Listed as active in TSCA inventory

⁵⁾ Per internal review OMRI eligible product



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