

## Planet Possible: Our commitment to doing more with less

Our success as a company depends on sustainability. At AkzoNobel we have sharpened our focus on sustainability by reviewing our sustainability risks and opportunities against global trends and evaluating how they will impact our customers by 2020. We express the outcome as our Planet Possible approach to sustainability. It's our commitment to creating more value from fewer resources.



We know only too well that our future hinges on our ability to radically do more while using less.

- More innovation, less traditional solutions;
- More renewable energy and materials, less fossil-based;
- More value chain focus, less introverted thinking.

Employing our new strategy of radical efficiency, we work with customers and suppliers to open infinite possibilities to a finite world. Learn more at [www.akzonobel.com/planetpossible](http://www.akzonobel.com/planetpossible)

### Number 1

is our position in the Materials industry group on the 2017 Dow Jones Sustainability Index.

### At least 20%

is the share of revenue we aim to achieve by 2020 from products with a sustainability advantage for customers.

### More than 25%

is the reduction we aim to achieve in our cradle-to-grave carbon foot print per ton of product by 2020.

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[www.akzonobel.com/agrochemicals](http://www.akzonobel.com/agrochemicals)

AkzoNobel creates everyday essentials to make people's lives more liveable and inspiring. As a leading global paints and coatings company and a major producer of specialty chemicals, we supply essential ingredients, essential protection and essential color to industries and consumers worldwide. Backed by a pioneering heritage, our innovative products and sustainable technologies are designed to meet the growing demands of our fast-changing planet, while making life easier. Headquartered in Amsterdam, the Netherlands, we have approximately 46,000 people in around 80 countries, while our portfolio includes well-known brands such as Dulux, Sikkens, International, Interpon and Eka. Consistently ranked as a leader in sustainability, we are dedicated to energizing cities and communities while creating a protected, colorful world where life is improved by what we do.

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AkzoNobel Surface Chemistry

# Ask us for your solutions

Agrochemical product portfolio – Americas



# We will design and supply the ultimate solutions for your needs. Today and tomorrow

Finding ways to enhance your agrochemical products or innovate technologies for crop-protection is what we do. Every day. AkzoNobel is a global, reliable and sustainable partner with a broad range of environmentally safe, biodegradable and cost effective solutions. Working together will lead to a sustainable future, boosting productivity and yield. Test us.

	GENERAL CHARACTERISTICS									SOLUBILITY		FUNCTIONALITY & USE		
	Physical form (20°C)	Description	Active content	Water content	pH <sup>1)</sup>	CMC g/l	Surface tension mN/m <sup>2</sup>	Contact angle	Wetting power <sup>2)</sup> 1g/l	Water	Veg oil	Application area	Function	Prime use
<b>ADJUVANTS</b>														
Adsee™ 611	Liquid	Fatty amine ethoxylate blend	100%	1%	6-7	0,027	38	66		Soluble		TM	Penetrant	Rice, all pesticides
Adsee™ 900	Liquid	Fatty alcohol ethoxylate	90%	10%	5-7	1.0	26	41	5 sec	Soluble	Dispersible	TM	Penetrant, wetter	Fungicides, SU's, hydrophobic actives
Adsee™ 907	Liquid	Tallow amine ethoxylate blend	96%	4%	9-11.5	0.062	39.5	71	>10 min	Soluble	Insoluble	SL	Penetrant	IPA Glyphosate 360
Adsee™ 973	Liquid	Alcohol alkoxylate blend	100%	1%	6-8	0.007	39	68	>5 min	Soluble	Soluble	SL, SC, SE, TM	Penetrant, humectancy	SU's and Hydrophilic actives, fast uptake
Adsee™ 978	Viscous liquid	Alcohol block copolymer	100%	0.2%	5-7		37	63	<5 min	Soluble	Insoluble	TankMix	Wetter, rewetter	Peat and turf
Adsee™ AB 615	Liquid	Oleyl alkoxylated amine	100%	1%		0.01	33	51	24 sec	Soluble	Insoluble	SL, SC, SE, TM	Penetrant, retention	Multipurpose
Adsee™ C80W	Liquid	Cocoamine propyl amide	87%	13%	9-10	0.02	27	41	5 min	Soluble	Dispersible	SL, WDG	Penetrant, compatibilizer	K Glyphosate 540, herbicide mixtures
Adsee™ C-70A	Liquid	Cocoamine propyl amide	30%	70%	6.5-8.5	5.0	33	53	>5 min	Soluble	Insoluble	SL	Penetrant, compatibilizer	K Glyphosate 540, herbicide mixtures
Ethomeen® T/25	Liquid	Tallow amine ethoxylate 15	100%	1%	9-11	0.03	39	71	>10 min	Soluble	Partly soluble	SL	Penetrant	IPA Glyphosate 360, SU's
Ethomeen® HT/60	Solid	Tallow amine ethoxylate 50	100%	1%	9-11	NA	47	71	>10 min	Soluble	Insoluble	WDG	Penetrant	NH4 Glyphosate, dry formulation
<b>DISPERSANTS</b>														
Agrilan® 700 Dry	White powder	Polyacrylate copolymer	95%	5%	7-8	NA	NA	NA	>5 min	Soluble	Insoluble	SC, WDG, WSG, WP	Dispersant, stabiliser	White, cost-effective
Agrilan® 755	Liquid	Polyacrylate copolymer	30%	19%	3.5-5	NA	NA	NA	>10 min	Soluble	Dispersible	SC, SE, OD	Dispersant, emulsifier, stabiliser	High performance SC stabiliser
Agrilan® 789 Dry	White powder	Polyacrylate copolymer	95%	5%	7-8	3.0	42	92	>5 min	Soluble	Insoluble	SC, WDG, WSG, WP	Dispersant, stabiliser	White, hard water tolerant, low foam
Ethylan® NS-500LQ	Viscous liquid	Alcohol block copolymer	100%	0.2%	6.5-7.5	0.2	36	62	163 sec	Soluble	Insoluble	SC, SE	Dispersant, emulsifier, wetter	Versatile, standard co-dispersant for SC with Morwet D-425 Powder
Morwet® D-400 Powder	Brown powder	Naphthalene sulphonate condensate	72.5%	3%	7.5-10	>25	60	83	>5 min	Soluble	Insoluble	SC, WDG, WSG, WP	Dispersant, milling aid	Cost effective alternative for Morwet D-425 Powder
Morwet® D-425 Powder	Brown powder	Naphthalene sulphonate condensate	88%	4%	7.5-10	>25	60	85	>5 min	Soluble	Insoluble	SC, WDG, WSG, WP	Dispersant, milling aid	Robust, universal, reliable performance
Morwet® D-500 Powder	Brown powder	Naphthalene sulphonate blend	99%	2%	7.5-10	>25	43		>5 min	Soluble	Insoluble	SC, WDG, WSG, WP	Dispersant, wetting, milling aid	Complete robust solution
Morwet® D-809 Powder	Brown powder	Naphthalene sulphonate condensate	88%	4%	7.5-10	>25	63	86	>5 min	Soluble	Insoluble	SC, WDG, WSG, WP	Dispersant, milling aid	Premium, hard water tolerant
<b>WETTING AGENTS</b>														
Adsee™ 900	Liquid	Fatty alcohol ethoxylate	90%	10%	5-7	1.0	26	41	5 sec	Soluble	Dispersible	SC, SL, TM	Wetter, penetrant	Fungicides, SU's, Hydrophobic actives
Lankropol® KPH70	Liquid	Diocylsulfosuccinate in mpg/water	70%	11%	5-8	1.6	34	35	4 sec	Opaque sol	Insoluble	EC, EW, ME	Wetter	Extra fast, no colour
Morwet® 3028 Powder	Brown powder	Naphthalene sulphonate blend	95%	2%	7.5-10	1.5	36	64	20 sec	Soluble	Insoluble	SC, WDG, WSG, WP	Wetter	Low hygroscopicity
Morwet® EFW Powder	Brown powder	Naphthalene sulphonate blend	95%	2%	7.5-10	6.0	32	65	17 sec	Soluble	Insoluble	SC, WDG, WSG, WP	Wetter	Extra fast wetting, use with Morwet D-425 Powder
Morwet® IP Powder	Brown powder	Naphthalene sulphonate condensate	75%	2.5%	7.5-10	7.7	50	87	>5 min	Soluble	Insoluble	SC, WDG, WSG, WP	Wetter	Low foam
<b>EMULSIFIERS</b>														
Emulpon™ CO-360	Liquid/paste	Castor oil ethoxylate 36	100%	0.2%	6.5-7.5	0.3	39	73	>10 min	Soluble	Soluble	EC, EW, ME	Emulsifier	Combine with anionic emulsifier
Ethylan® 324	Paste	Alcohol alkoxylate	100%		6-8				>10 min	Soluble		EC, EW, ME	Emulsifier, stabiliser	Aromatic and Armid DM solvents, spontaneity enhancer
Ethylan® NS-500LQ	Viscous liquid	Alcohol block copolymer	100%	0.2%	6.5-7.5	0.2	36	62	163 sec	Soluble	Insoluble	EC, EW	Emulsifier, stabiliser	Aromatic and Armid DM solvents, spontaneity enhancer
Lankropol® KPH70	Liquid	Diocyl sulfosuccinate in mpg/water	70%	11%	5-8	1.6	34	35	4 sec	Opaque sol	Insoluble	EW, ME	Emulsifier	Combine with Agrilan AEC145
Witconate® P-1220EH	Liquid	Branched DDBS, Ca salt	60%	1%	5-7	NA	NA	NA	NA	Dispersible	Soluble	EC, EW, ME	Emulsifier	Combine with Ethylan 324 & Ethylan NS-500LQ
Witconate® P-1460EH	Liquid	Linear DDBS, amine salt, in 2-EH	60%	0.8%	5-7	NA	NA	NA	NA	Dispersible	Insoluble	EC, EW, ME, OD	Emulsifier	Aromatic and Armid DM solvents
<b>EMULSIFIER BLENDS</b>														
Sponto EC-452	Liquid	Nonionic/anionic blend	100%	0.5%	5-7	NA				Dispersible	Dispersible	EC	Emulsifier blend	Versatile emulsifier- phenoxies, dinitroanilines, MSO
<b>SOLVENTS</b>														
Armid® DM10	Liquid	C10 dimethyl amide	100%	0.5%	4-7	NA	NA	NA	NA	Insoluble	Soluble	EC, EW	Oil soluble	Replace NMP and aromatic solvents
Armid® DM810	Liquid	C8-10 dimethyl amide	100%	0.5%	NA	NA	NA	NA	NA	Dispersible	Soluble	EC, EW	Oil soluble	Replace NMP and aromatic solvents
<b>SEED TREATMENT</b>														
Adsee™ ST4	Liquid	Maltodextrin/vinylpyrrolidone polymer	24%	76%	4-6	NA	NA	NA	NA	Soluble	Insoluble	FS	Binder	Reduce dust-off, improve flowability