

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

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

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 – Europe



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.

1) 1% in water 2) Draves test	GENERAL CHARACTERISTICS										SOLUBILITY		FUNCTIONALITY & USE		
	Physical form (20°C)	Description	Active content	Water content	pH ¹⁾	CMC g/l	Surface tension mN/m ²	Contact angle	Wetting power ²⁾ 1g/l	Water	Veg oil	Application area	Function	Prime use	
ADJUVANTS															
Adsee™ 800	Liquid	Fatty alcohol ethoxylate	100%	1%	5-8	1.6	30	51	15 sec	Soluble	Soluble	TM	Penetrant, wetter	Fungicides, SU's, hydrophobic actives	
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, re-wetter	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™ PE410A	Liquid	Phosphate ester blend, acid	70%	30%	1-2		33	83	>5 min	Soluble	Soluble	SL	Penetrant	Glyphosate, glyphosate acid	
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	
Ethylan® 995	Liquid	Fatty alcohol alkoxylate	100%	1%	5-6	>50	31	41	51 sec	Soluble	Soluble	SC, SE	Penetrant	Fungicides, reduce drift	
DISPERSANTS															
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%	7-9	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	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	98%	2%	7.5-10	>25	43		>5 min	Soluble	Insoluble	SC, WDG, WSG, WP	Dispersant, milling aid, wetting	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	
WETTING AGENTS															
Adsee™ 800	Liquid	Fatty alcohol ethoxylate	100%	1%	5-8	1.6	30	51	15 sec	Soluble	Soluble	OD, SC, SL, TM	Wetter, penetrant	Fungicides, SU's	
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	Diocetyl sulfosuccinate 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® 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	
EMULSIFIERS															
Agrilan® AEC145	Liquid/paste	TSP-ethoxylate 15	100%	0.5%	6-7	0.015	41	63	6 min	Soluble	Soluble	EC, ME	Emulsifier	Combine with Lankropol KPH70	
Berol® 829	Liquid	Castor oil ethoxylate 20	100%	1%	5.5-7.5	0.11	40	72	>10 min	Dispersible	Soluble	EC, EW, ME	Emulsifier	Combine with anionic emulsifier	
Berol® 904	Liquid/paste	Castor oil ethoxylate 36	100%	0.3%	6-7.5	0.29	41	73	>10 min	Soluble	Soluble	EC, EW, ME	Emulsifier	Combine with anionic emulsifier	
Ethylan® 954	Solid	Alcohol ethoxylate	100%	0.3%	5-7	0.04	44	78	>10 min	Soluble	Insoluble	EC, SC	Emulsifier, penetrant	Aromatic solvents	
Ethylan® 954 LQ	Liquid	Alcohol alkoxylate	100%	0.3%	5-7	0.005	38	65	>5 min	Soluble	Soluble	EC	Emulsifier, penetrant	Aromatic, Armid DM solvents	
Ethylan® 992	Paste	Alcohol alkoxylate	100%	0.3%	5-7	0.4	34	58	26 sec	Soluble	Soluble	EC	Emulsifier	Aromatic solvents, Dimethoate	
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	Diocetyl sulfosuccinate in mpg/water	70%	11%	5-8	1.6	34	35	4 sec	Opaque sol	Insoluble	EC, ME	Emulsifier	Combine with Agrilan AEC145	
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	
EMULSIFIER BLENDS															
Berol® 9927	Liquid/paste	Nonionic/anionic blend	100%	0.5%	5-7	NA	30	44	10 sec	Soluble	Soluble	EC	Emulsifier blend	Emulsifiers optimized for EC's based on aromatic solvents.	
Berol® 9960	Paste	Nonionic/anionic blend	100%	0.5%	5-7	NA	31	49	21 sec	Soluble	Dispersible	EC	Emulsifier blend	Combining these products in pairs will result in stable EC's with excellent emulsification performance.	
Berol® 9968	Liquid	Nonionic/anionic blend	100%	0.5%	5-7	NA	28	37	8 sec	Dispersible	Soluble	EC	Emulsifier blend	Guide recipes available upon request.	
Berol® 9969	Paste	Nonionic/anionic blend	100%	0.5%	5-7	NA	29	40	13 sec	Soluble	Dispersible	EC	Emulsifier blend		
SOLVENTS															
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	
Armid® FMPC	Liquid	Morpholine derivative	100%	0.5%	NA	NA	NA	NA	NA	Soluble	Soluble	EC, EW, SL	Water soluble, co-solvent	NMP replacer, soluble in most solvents. Not Reach registered.	
SEED TREATMENT															
Adsee™ ST4	Liquid	Maltodextrin/vinylpyrrolidone polymer	24%	76%	4-6	NA	NA	NA	NA	Soluble	Insoluble	FS	Binder	Reduce dust-off, improve flowability	