

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.

USA and Canada

Global Headquarters
Chicago, USA
T +1 312 544 7000
agro@akzonobel.com

South America

Regional sales office
Itupeva, Brazil
T +55 11 4591 8938
sc-southAmerica@akzonobel.com

Central America and Caribbean

Regional sales office
Mexico City, Mexico
T +52 55 5261 7895
agro@akzonobel.com

China

Regional Headquarters
Shanghai, China
T +86 21 2220 5000
agro@akzonobel.com

South East Asia

Regional Headquarters
Singapore
T +65 6635 5183
agro@akzonobel.com

India

Regional sales office
Mumbai, India
T +91 22 2778 7386
agro@akzonobel.com

Europe

Regional Headquarters
Stenungsund, Sweden
T +46 303 850 00
agro@akzonobel.com

Middle East

Regional sales office
Dubai, United Arab Emirates
T +971 4347 2491
agro@akzonobel.com

Russia

Regional sales office
Moscow, Russia
T +7 495 960 2890
agro@akzonobel.com



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 – India



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 ¹⁾	CMC g/l	Surface tension g/l	Contact angle	Wetting power ²⁾ 1g/l	Water	Veg oil	Application area	Function	Prime use	
ADJUVANTS															
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, re-wetter	Peat and turf
Adsee™ 1629	Liquid	Cetyl trimethyl ammonium chloride	29%	70%	6-9		34				Soluble		SL	Penetrant, Thickener with C-70A	Glufosinate, Glyphosate, 2,4-D, Paraquat
Adsee™ AB 615	Liquid	Oleyl alkoxylated amine	100%	1%		0.01	33	51	24 sec		Soluble	Insoluble	SL, SC, SE, TM	Penetrant, retention, spreading	Multipurpose
Adsee™ AB 650	Liquid	Oleyl alkoxylated amine blend	100%	1%	4-6	0.021	37	66	46 sec		Soluble	Dispersible	TM	Penetrant, retention, spreading	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	0.053	33	53	>5 min		Soluble	Insoluble	SL	Penetrant, compatibilizer	K Glyphosate 540, herbicide mixtures
Adsee™ C-70S	Liquid	Cocoamine propyl amide	30%										SL	Penetrant, Thickener with 1629	Glufosinate, Glyphosate, 2,4-D, Paraquat
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	Pentetrant	NH4 Glyphosate
Ethylan® 995	Liquid	Fatty alcohol alkoxylate	100%	1%	5-6	>50	31		51 sec		Soluble	Soluble	SC, SE	Penetrant	Fungicides
Monolan PC	Viscous liquid	Alcohol block copolymer	100%	0.2%	5-7		37		300 sec		Soluble	Insoluble	TM	Wetter, rewetter	Peat and turf
DISPERSANTS															
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%	7-9	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	Dispersant, stabiliser, 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-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™ 900	Liquid	Fatty alcohol ethoxylate	90%	10%	5-7	1.0	26	41	5 sec		Soluble	Dispersible	SC, SL	Wetter, penetrant	Fungicides, SU's
Berol® 790A	White powder	Sodium olefin sulphonate	98%	2%	11.5-13.5						Soluble		SC, WDG, WSG, WP	Wetter	For white formulations, universal
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, standard with D-425
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, EW, 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	Insoluble	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 akoxylate	100%	0.3%	5-7	0.005	38	65	>5 min		Soluble	Soluble	EC	Emulsifier, penetrant	Aromatic, Armid DM solvents
Ethylan® 992	Paste	Alcohol akoxylate	100%	0.3%	5-7	0.4	34	58	26 sec		Soluble	Soluble	EC	Emulsifier	Aromatic solvents, Dimethoate
Ethylan® NS-500LQ	Viscous liquid	Allcohol 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, EW, 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 blends	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 blends	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 blends	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 blends	
SOLVENTS															
Armid® DM10	Liquid	C10 dimethyl amide	100%	0.5%	NA	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
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