KEMPEN WALL CHEMIE

Product brochure

Surfactants & Emulsifiers

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Contents

Introduction		p. 4
Anionic Surfactants		p. 7
Phosphoric Acid Esters		p. 7
Alkyl benzene sulfonic acid, salts		p. 7
Sulfosuccinates		p. 7
Nonionic Surfactants		p. 8
Ethylhexanol polyglycol ether	WALLOXEN EH	p. 8
Lauryl-Myristyl alcohol polyglycol ether	WALLOXEN LM	p. 8
Decyl alcohol polyglycol ether	WALLOXEN ID/D	p. 9
Isotridecyl alcohol polyglycol ether	WALLOXEN TR	p. 10
Oleyl-Cetyl alcohol polyglycol ether	WALLOXEN SP/SH	p. 10
Cetyl-Stearyl alcohol polyglycol ether	WALLOXEN T	p. 11
Stearyl-Behenyl alcohol polyglycol ether	WALLOXEN ST	p. 11
Castor oil polyglycol ether	WALLOXEN RO	p. 12
Hydr. Castor oil polyglycol ether	WALLOXEN HRO	p. 12
Oleic fatty acid polyglycol ether	WALLOXEN OFS	p. 12
Cationic Surfactants		p. 13
Oleylamine polyglycol ether	WALLOXEN OA	p. 13
Stearylamine polyglycol ether	WALLOXEN STA	p. 13
Cocoamine polyglycol ether	WALLOXEN KA	p. 13
Tallow amine polyglycol ether	WALLOXEN TA	p. 13
Other products		p. 14
Fatty acid alkanol amides	WALLAMID	p. 14
Sorbitanesterethoxilate	MERPOXEN, WALLOXEN SM	p. 14
Special products		p. 14
Fatty acid ethoxylates		p. 14
Glycerin ethoxylates		p. 15
Ethoxylated triglycerides		p. 15
Esters		p. 15
Thioglycolic acid		p. 15
Surfactants for cosmetic applications		p. 16
Surfactants for lubricant applications		p. 16
Surfactants for washing and cleaning applications		p. 17
Emulsifiers for food and feed application		p. 17
International contacts		p. 18

Law information: Suggestions for the use and application of our products and guide formulae are given to the best of our knowledge and information, without obligation. Every user of our products is responsible as regards observation of all legal regulations including patent laws.

Active all around the world

Individual & tailor-made solutions

Since its establishment in 1984, the company Wall Chemie GmbH has been a family run business. Its broad portfolio combined with customized solutions enables Wall Chemie to offer surfactants and emulsifiers for all kinds of applications. Based on our wide range of products for the international market, we offer tailor-made and application-specific products in close cooperation with our customers.

Key technology

The raw materials for the manufacturing of our products are based on renewable and petrochemical resources. The main focus of our production is the manufacture of non-ionic surfactants based on fatty alcohols, fatty acids, triglycerides and fatty amines. A further significant part are anionic surfactants such as phosphoric acid esters and sulfosuccinates as well as fatty acid (alkanol) amides and fatty acid esters which makes up just as much a considerable part.

Feel free to contact us!

Companies associated with Wall Chemie

Our subsidiaries and joint ventures are supporting and enabling a successfull business around the world.

Carpetex Lederhilfsmittel, with its headquarters in Kempen, offers products and applications in the field of leather production for the European, Asian and South American market.

From its location in Novo Hamburgo, Wall Chemie Brasil provides the South American market with emulsifiers and surfactants for a variety of applications.

In Enschede (Netherlands) Wall Chemie BV acts as marketing organisation for among others Benelux, UK and France.
Wall Chemie BV also markets the entire product programme of the company Unger Fabrikker AS, from Norway.

For the marketing of our products as additives for animal feed and foodstuffs there is a joint venture with Prosupply BV in Aalden Netherlands).

Product range

Anionic surfactants

Phosphoric acid esters

Trade name	Chemical name	Active matter (%)	Form (20°C)	Application
WALLIPHOS TRP 40	i-C_{13}-Alcohol polyglycol ether phosphoric acid ester	appx. 100	liquid	Low foam wetting agents for neutral and weak alkaline cleaners.
WALLIPHOS TRP 60	i-C_{13}-Alcohol polyglycol ether phosphoric acid ester	appx. 100	liquid	Coemulgatoren für Polymerisationsreaktionen.
WALLIPHOS EHDP 30	i-C_{8}-Alcohol polyglycol ether phosphoric acid ester	appx. 100	liquid	
WALLIPHOS EHDP 30 Na 85 %	i-C_{8}-Alcohol polyglycol ether phosphoric acid ester, neutralized	appx. 85	liquid	
WALLIPHOS IDP 80	i-C_{10}-Alcohol polyglycol ether phosphoric acid ester	appx. 100	liquid	
WALLIPHOS LMP 50	$C_{12/14}$-Alcohol polyglycol ether phosphoric acid ester	appx. 100	viscous	release agent
WALLIPHOS SSP 50	$C_{16/18}$-Alcohol polyglycol ether phosphoric acid ester	appx. 100	pasty-solid	

Alkyl benzene sulfonic acid

Trade name	Chemical name	Active matter (%)	Form (20°C)	Application
WALLISAP AT 50	Alkyl benzene sulfonic acid, TEA-salt	appx. 50	liquid	

Sulfosuccinate

Trade name	Chemical name	Active matter (%)	Form (20°C)	Application
WALLASOL DIO 60 PG	–	appx. 60	liquid	
WALLASOL DIO 70 PG	–	appx. 70	liquid	

Nonionic Surfactants

Ethylhexanol polyglycol ether

Trade name	Degree of Ethoxylation	Cloud point (°C)	Form (20°C)	HLB-value	Application
WALLOXEN EH 30	appx. 3 mol	appx. 44 [1]	liquid	10,1	Emulsifier for metal treatment and electroplating.
WALLOXEN EH 80/80	appx. 8 mol	appx. 44 [3]	liquid	14,6	
WALLOXEN EH 150	appx. 15 mol	appx. 81 [5]	solid	16,7	
WALLOXEN EH 150/80	appx. 15 mol	appx. 81 [5]	liquid	16,7	

Lauryl-Myristyl alcohol polyglycol ether

Trade name	Degree of Ethoxylation	Cloud point (°C)	Form (20°C)	HLB-value	Application
WALLOXEN LM 30	appx. 3 mol	appx. 52 [1]	liquid	8	Raw material for ethersulfates, etherphosphates and sulfosuccinates. Oil soluble emulsifiers.
WALLOXEN LM 40	appx. 4 mol	appx. 62 [1]	liquid	9,4	
WALLOXEN LM 50	appx. 5 mol	appx. 69 [1]	liquid	10,5	
WALLOXEN LM 60	appx. 6 mol	appx. 73 [1]	liquid – pasty	11,4	Dispersing-, wetting-, washing agents and detergents.
WALLOXEN LM 70	appx. 7 mol	appx. 55 [2]	liquid – pasty	12,1	
WALLOXEN LM 90/90	appx. 9 mol	appx. 81 [2]	liquid	13,3	
WALLOXEN LM 100/80	appx. 10 mol	appx. 63 [7]	liquid	13,8	
WALLOXEN LM 120/90	appx. 12 mol	appx. 67 [3]	liquid	14,5	Emulsifiers for O/W-emulsions and polymerisations.
WALLOXEN LM 200/70	appx. 20 mol	appx. 30 [2]	liquid	16,3	
WALLOXEN LM 300/20	appx. 30 mol	appx. 77 [7]	liquid	17,4	
WALLOXEN LM 300/65	appx. 30 mol	appx. 77 [7]	pasty	17,4	

Decyl alcohol polyglycol ether

Trade name	Degree of Ethoxylation	Cloud point (°C)	Form (20°C)	HLB-value	Application
WALLOXEN ID 30	appx. 3 mol	appx. 43 [1]	liquid	9,1	Oil soluble emulsifier
WALLOXEN ID 50	appx. 5 mol	appx. 67 [1]	liquid	11,6	Dispersing-, wetting-, washing and cleaning agents.
WALLOXEN ID 60	appx. 6 mol	appx. 52 [2]	liquid	12,5	
WALLOXEN ID 70 *	appx. 7 mol	appx. 61 [2]	liquid	13,2	
WALLOXEN ID 80 *	appx. 8 mol	appx. 81 [2]	liquid	13,8	
WALLOXEN ID 110/80	appx. 11 mol	appx. 64 [3]	liquid	15,1	
WALLOXEN ID 200/80	appx. 20 mol	appx. 72 [3]	liquid	16,9	
WALLOXEN D 70/80	appx. 7 mol	appx. 65 [2]	liquid	13,2	
WALLOXEN D 80	appx. 8 mol	appx. 82 [2]	liquid	13,8	
WALLOXEN D 80/90	appx. 8 mol	appx. 82 [2]	liquid	13,8	

Cloud point measuring methods: [1] 5 g in 25 ml 25 % BDG-solution, [2] 1 % in water, [3] 1 % in 10 % NaCl-solution, [4] 10 % in 25 % BDG-solution, [5] 1% in 5% NaCl-solution, [6] 0,5% in 10% NaCl-solution.

Nonionic Surfactants

Isotridecyl alcohol polyglycol ether

Trade name	Degree of Ethoxylation	Cloud point (°C)	Form (20°C)	HLB-value	Application
WALLOXEN TR 30	appx. 3 mol	appx. 50 [4]	liquid	8	Oil soluble emulsifiers. Emulsifiers for agriculture protection formulations.
WALLOXEN TR 40	appx. 4 mol	appx. 57 [4]	liquid	9,4	
WALLOXEN TR 50	appx. 5 mol	appx. 66 [4]	liquid	10,6	
WALLOXEN TR 60	appx. 6 mol	appx. 71 [4]	liquid	11,5	
WALLOXEN TR 70 *	appx. 7 mol	appx. 75 [4]	liquid	12,2	Dispersing-, wetting-, washing-agents and detergents. Universal surfactants for the formulation of leather-, textile- and paper auxiliaries.
WALLOXEN TR 80 *	appx. 8 mol	appx. 44 [2]	liquid	12,8	
WALLOXEN TR 90/90	appx. 9 mol	appx. 57 [2]	liquid	13,4	
WALLOXEN TR 100/90	appx. 10 mol	appx. 73 [2]	liquid	13,8	
WALLOXEN TR 120/80	appx. 12 mol	appx. 56 [3]	liquid	14,6	
WALLOXEN TR 120/90	appx. 12 mol	appx. 56 [3]	liquid	14,6	
WALLOXEN TR 150/80	appx. 15 mol	appx. 66 [3]	liquid	15,4	
WALLOXEN TR 150/90	appx. 15 mol	appx. 66 [3]	liquid	15,4	
WALLOXEN TR 200	appx. 20 mol	appx. 72 [3]	solid	16,3	

Oleyl-Cetyl alcohol polyglycol ether

Trade name	Degree of Ethoxylation	Cloud point (°C)	Form (20°C)	HLB-value	Application
WALLOXEN SH 20 PF	appx. 2 mol	appx. 35 [1]	liquid	5,1	Emulsifier for mineral oil.
WALLOXEN SH 55/95 PF	appx. 5,5 mol	appx. 71 [1]	liquid	9,6	
WALLOXEN SP 20 PF	appx. 2 mol	appx. 40 [1]	liquid	5,1	
WALLOXEN SP 50 PF	appx. 5 mol	appx. 70 [1]	liquid – pasty	9,2	
WALLOXEN SP 200 PF	appx. 20 mol	appx. 74 [3]	solid	15,4	Emulsifier for cooling lubricants and for drilling and cutting oils
WALLOXEN SP 300 PF	appx. 30 mol	appx. 77 [3]	solid	16,7	
WALLOXEN SP 300/70 PF	appx. 30 mol	–	liquid	–	

Cetyl-Stearyl alcohol polyglycol ether

Trade name	Degree of Ethoxylation	Cloud point (°C)	Form (20°C)	HLB-value	Application
WALLOXEN T 110	appx. 11 mol	appx. 85 [2]	solid	13	Surfactants for powdery washing agents and detergents. Carrier for solid detergents (rim blocks) and enzymes.
WALLOXEN T 190	appx. 19 mol	appx. 75 [3]	solid	15,3	
WALLOXEN T 200	appx. 20 mol	appx. 75 [3]	solid	15,4	
WALLOXEN T 250	appx. 25 mol	appx. 76 [3]	solid	16,2	

Stearyl-Behenyl alcohol polyglycol ether

Trade name	Degree of Ethoxylation	Cloud point (°C)	Form (20°C)	HLB-value	Application
MERPOXEN ST 250	appx. 25 mol	–	solid	16,9	–

Cloud point measuring methods: [1] 5 g in 25 ml 25 % BDG-solution, [2] 1 % in water, [3] 1 % in 10 % NaCl-solution, [4] 10 % in 25 % BDG-solution, [5] 1% in 5% NaCl-solution, [6] 0,5% in 10% NaCl-solution.

Nonionic Surfactants

Castor oil polyglycol ether

Trade name	Degree of Ethoxylation	Saponification Value (mg KOH/g)	Form (20°C)	HLB-value	Application
WALLOXEN RO 30	appx. 3 mol	appx. 152	liquid	2,7	Emulifiers for mineral oil.
WALLOXEN RO 50	appx. 5 mol	appx. 143	liquid	3,7	
WALLOXEN RO 110	appx. 11 mol	appx. 120	liquid	6,9	Emulsifiers for cooling lubricants, drilling and cutting oil.
WALLOXEN RO 150	appx. 15 mol	appx. 107	liquid	8,3	
WALLOXEN RO 180 G	appx. 18 mol	appx. 90	liquid	10,5	
WALLOXEN RO 200	appx. 20 mol	appx. 90	liquid	9,7	
WALLOXEN RO 260	appx. 26 mol	appx. 80	liquid	11,6	
WALLOXEN RO 350	appx. 35 mol	appx. 65	liquid	12,2	Solubilizer.
WALLOXEN RO 400	appx. 40 mol	appx. 60	pasty	13,5	
WALLOXEN RO 1900	appx. 190 mol	appx. 30	wax	18,2	

Hydrogenated castor oil polyglycol ether

Trade name	Degree of Ethoxylation	Saponification Value (mg KOH/g)	Form (20°C)	HLB-value	Application
WALLOXEN HRO 160	appx. 16 mol	appx. 100	liquid	8,9	Emulsifiers and solubilizers.
WALLOXEN HRO 250	appx. 25 mol	appx. 80	liquid	10,3	

Oleic fatty acid polyglycol ester

Trade name	Degree of Ethoxylation	Saponification Number (mg KOH/g)	Form (20°C)	HLB-value	Application
WALLOXEN OFS 60	appx. 6 mol	appx. 100	liquid	9,9	Emulsifier for cooling lubricants, drilling and cutting oils.
WALLOXEN OFS 70	appx. 7 mol	appx. 95	liquid	10,5	
WALLOXEN OFS 100	appx. 10 mol	appx. 75	liquid	12,4	
WALLOXEN OFS 120	appx. 12 mol	appx. 65	liquid	13,4	

Cationic Surfactants

Oleylamine polyglycol ether

Trade name	Degree of Ethoxylation	Amine Value (mg KOH/g)	Form (20°C)	Application
WALLOXEN OA 100	appx. 10 mol	appx. 80	liquid	Surfactants for acid cleaners, textile- and leather auxiliaries, dyeing assistants.

Stearylamine polyglycol ether

Trade name	Degree of Ethoxylation	Amine Value (mg KOH/g)	Form (20°C)	Application
WALLOXEN STA 150	appx. 15 mol	appx. 61	liquid	Surfactants for the formulation of leather-, textile- and dyeing auxiliaries. Emulsifiers for water based adhesives
WALLOXEN STA 250	appx. 25 mol	appx. 41	pasty	

Cocoamine polyglycol ether

Trade name	Degree of Ethoxylation	Amine Value (mg KOH/g)	Form (20°C)	Application
WALLOXEN KA 50	appx. 5 mol	appx. 133	liquid	Auxiliaries for textiles, detergents.
WALLOXEN KA 100	appx. 10 mol	appx. 87	liquid	
WALLOXEN KA 150	appx. 15 mol	appx. 65	liquid	

Tallow amine polyglycol ether

Trade name	Degree of Ethoxylation	Amine Value (mg KOH/g)	Form (20°C)	Application
WALLOXEN TA 100	appx. 10 mol	> 158	liquid	Surfactants for the production of textile auxiliaries.
WALLOXEN TA 150	appx. 15 mol	appx. 77	liquid	
WALLOXEN TA 200	appx. 20 mol	appx. 48	liquid	

Other products

Fatty acid alkanol amides

Trade name	Chemical name	Content of Amide (%)	Form (20°C)	HLB-value	Application
WALLAMID KD 11	Coconut fatty acid diethanolamide	appx. 85	liquid	–	Thickener and refatting agent for shampoo, foam bath and shower bath. Agent to slow down solubilisation in rim blocks. Coagent for car cleaning / car care products.
WALLAMID OD/E	Oleic fatty acid diethanolamide	appx. 90	liquid	–	
WALLAMID TAD	Tall oil fatty acid diethanolamide	appx. 120	liquid	–	
WALLOXEN OM 30	Ethoxilated amide	appx. 62 [1)]	liquid	–	

Cloud point measuring method: [1)] 5 g in 25 ml 25 % BDG-solution

Sorbitan ester ethoxylates

Trade name	Degree of Ethoxylation	Saponification number (mg KOH/g)	Form (20°C)	HLB-value	Application
MERPOXEN SML 200	appx. 20 mol	appx. 45	liquid	16,8	Emulsifiers and solubilizers
MERPOXEN SMS 200	appx. 20 mol	appx. 50	pasty	15,1	
MERPOXEN STS 200	appx. 20 mol	appx. 83	wax	11	
MERPOXEN SMO 200	appx. 20 mol	appx. 50	liquid	15	
MERPOXEN STO 200	appx. 20 mol	appx. 89	liquid	11,2	
WALLOXEN SMO 50	appx. 5 mol	appx. 100	liquid	10	

Special products

Fatty acid ethoxylates

Trade name	Degree of Ethoxylation	Saponification number (mg KOH/g)	Form (20°C)	HLB-value	Application
WALLOXEN KFS 18/30NN	appx. 3 mol	158 - 166	liquid	–	–
WALLOXEN TFS 30	appx. 3 mol	appx. 128	liquid	5	

Special products

Glycerin ethoxylates

Trade name	Degree of Ethoxylation	Hydroxyl Value (mg KOH/g)	Form (20°C)	HLB-value	Application
WALLOXEN G 70	appx. 7 mol	appx. 400	liquid	15,4	–
WALLOXEN G 200	appx. 20 mol	appx. 180	liquid	18,1	

Ethoxylated triglycerides

Trade name	Degree of Ethoxylation	Hydroxyl Value (mg KOH/g)	Form (20°C)	HLB-value	Application
WALLIMUL 73270 IP	appx. 27 mol	appx. 72	liquid	12	–
WALLIMUL 11070	appx. 7 mol	appx. 135	liquid	–	
WALLIMUL RFS 3085	–	appx. 123	liquid	8	
MERPIMUL 41210	appx. 7 mol	appx. 95	liquid	–	
MERPIMUL 43250	appx. 8 mol	appx. 84	liquid	–	

Esters

Trade name	Degree of Ethoxylation	Saponification number (mg KOH/g)	Form (20°C)	Application
WALLINAT SMO QL	–	appx. 153	liquid	–
WALLINAT STO	–	appx. 173	liquid	
WALLINAT 51180 DO	appx. 18 mol	appx. 123	liquid	

Thioglycol acid

Trade name	Degree of Ethoxylation	Form (20°C)	Application
WALLOMIX STG 401	–	liquid	Rim cleaner

Surfactants and emulsifiers for cosmetic application

Trade name	INCI - Name	Active matter (%)	Form (20°C)	HLB-value	Application
WALLAMID KD 11	Cocamide DEA	appx. 85	liquid	–	Surfactants for the formulation of baby shampoo, foam bath and mild detergents.
MERPOXEN LM 30	Laureth-3	appx. 100	liquid	8	Thickener for formulations based on ethersulfates.
MERPOXEN LM 40	Laureth-4	appx. 100	liquid	9,4	
MERPOXEN RO 350	PEG-35 Castor Oil	–	liquid	appx. 14	Solubilizers and emulsifiers for cosmetic formulations.
MERPOXEN HRO 400/90 PG	PEG-40 hydrogenated Castor Oil + 1,2-Propylenglykol / water	–	liquid	appx. 16	
MERPOXEN SML 200	Polysorbate 20	–	liquid	appx. 17	
MERPOXEN SMS 200	Polysorbate 60	–	solid	appx. 15	
MERPOXEN SMO 200	Polysorbate 80	–	liquid	appx. 15	

Surfactants and emulsifiers for lubricant application

Handelsname	Degree of Ethoxylation	Saponification number (mg KOH/g)	Cloud point (°C)	Form (20°C)	HLB-value	Application
WALLOXEN RO 50	appx. 5 mol	appx. 143	–	liquid	3,7	Emulsifiers for mineral oil.
WALLOXEN RO 110	appx. 11 mol	appx. 120	–	liquid	6,9	Emulsifiers for cooling lubricants, drilling and cutting oils.
WALLOXEN RO 150	appx. 15 mol	appx. 107	–	liquid	8,3	
WALLOXEN RO 180 G	appx. 18 mol	appx. 90	–	liquid	9,4	
WALLIMUL RFS 3085	–	appx. 123	–	liquid	7,8	
WALLOXEN SH 20 PF	appx. 2 mol	–	appx. 35 [1)]	liquid	5,1	Emulsifiers for mineral oils.
WALLOXEN SH 55/95 PF	appx. 5,5 mol	–	appx. 71 [1)]	liquid	9,6	
WALLOXEN SP 20 PF	appx. 2 mol	–	appx. 40 [1)]	liquid	5,1	
WALLOXEN SP 50 PF	appx. 5 mol	–	appx. 70 [1)]	liquid – pasty	9,2	
WALLOXEN SP 200 PF	appx. 20 mol	–	appx. 74 [3)]	solid	15,4	Emulsifiers for cooling lubricants, drilling and cutting oils.

Surfactants and emulsifiers for washing and cleaning application

Trade name	Chemical name	Active matter (%)	Form (20°C)	HLB-value	Application
WALLASOL DIO 60 PG	Diisooctyl sulfosuccinate Na-salt, contains 1,2-propylenglycol	appx. 60	liquid	–	Rapid wettener for leather-, paper- and textile auxiliaries.
WALLAMID KD 11	Coconut fatty acid diethanolamide	appx. 85	liquid	–	Thickener and superfatting agent.

Trade name	Degree of Ethoxylation	Cloud point (°C)	Form (20°C)	HLB-value	Application
WALLOXEN LM 30	appx. 3 mol	appx. 52 [1]	liquid	8	Raw material for ether-sulfates, etherphosphates and sulfosuccinates. Oil soluble emulsifiers.
WALLOXEN LM 40	appx. 4 mol	appx. 62 [1]	liquid	9,4	
WALLOXEN LM 90/90	appx. 9 mol	appx. 10 [2]	liquid	13,3	
WALLOXEN LM 120/90	appx. 12 mol	appx. 67 [3]	liquid	14,5	Dispersing-, wetting-, washing agent and detergent.
WALLOXEN ID 50	appx. 5 mol	appx. 67 [1]	liquid	11,6	Emulsifier for W/O emulsions.
WALLOXEN ID 70 *	appx. 7 mol	appx. 61 [2]	liquid	13,2	Dispersing-, wetting-, washing and cleaning agents.
WALLOXEN TR 70 *	appx. 7 mol	appx. 75 [4]	liquid	12,2	
WALLOXEN TR 90/90	appx. 9 mol	appx. 57 [2]	liquid	13,4	Dispersing-, wetting-, washing- agents.

Emulsifiers for food and feed application

Trade name	Degree of Ethoxylation	Saponification number (mg KOH/g)	Form (20°C)	HLB-value	Application
MERPOXEN RO 110 QL	appx. 11 mol	appx. 120	liquid	–	Use in feed and food products.
MERPOXEN RO 180 G QL	appx. 18 mol	appx. 93	liquid	appx. 10	

Trade name	INCI - Name	Active matter (%)	Form (20°C)	HLB-value	Application
MERPOXEN SML 200 QL	Polysorbate 20	–	liquid	appx. 17	Use in feed and food products.
MERPOXEN SMS 200 QL	Polysorbate 60	–	solid	appx. 15	
MERPOXEN SMO 200 QL	Polysorbate 80	–	liquid	appx. 15	

***These products can also be deliverd as aqueous solution.**

Cloud point measuring methods: [1] 5 g in 25 ml 25 % BDG-solution, [2] 1 % in water, [3] 1 % in 10 % NaCl-solution, [4] 10 % in 25 % BDG-solution, [5] 1% in 5% NaCl-solution, [6] 0,5% in 10% NaCl-solution.

International contacts

Germany

WALL CHEMIE GmbH

Am Selder 25

47906 Kempen

Deutschland

Phone: +49 (0) 2152 89 99-0

info@wall-chemie.com

www.wall-chemie.com

Benelux / France / Italy / UK

Wall Chemie BV

De Reulver 55

7544 RT Enschede

Niederlande

Phone: +31 (0) 643 88 88 91

info@wall-chemie.com

www.wall-chemie.com

UK / Ireland

The White Sea & Baltic Co Ltd

8 Kerry Hill, Horsforth

LS18 4AY Leeds

Großbritannien

Phone: +44 (0) 1132 590512

sales@whitesea.co.uk

www.whitesea.co.uk

Austria

Wimos Handelsges. mbH

Fischauergasse 1-3

2700 Wiener Neustadt

Österreich

Phone: +43 (0) 2622 2 12 28

office@wimos.at

www.wimos.at

Switzerland

Hydrior AG

Schwimmbadstrasse 35

CH-5430 Wettingen

Switzerland

Phone: +41 56 426 74 74

info@hydrior.ch

South America

Wall Chemie Brasil Produtos Quimicos Ltd

Rua José Anchieta, 188

Bairro: Imigrante

Campo Bom

CEP: 93.000-000

Brasilien

Phone: +55 (0) 5135 61 11 44

matheus.vargas@wall-chemie.com

www.wall-chemie.com

Feed and Food Industry Sales

Prosupply BV

Aelderstraat 1

7854 RN Aalden

Netherlands

Phone: +31 (0) 5916 7 99 99

info@foodbasics.nl

www.prosupply.nl

Products for Leather Industry

Europe / Asia

CARPETEX Lederhilfsmittel GmbH

Am Selder 25

47906 Kempen

Deutschland

Phone: +49 (0) 2152 89 99-0

info@carpetex.eu

www.carpetex.eu

WALL CHEMIE

WALL CHEMIE GmbH
Am Selder 25
47906 Kempen
Germany

Phone: +49 (0) 2152 89 99-0

info@wall-chemie.com
www.wall-chemie.com