

WORLD OF WAXES

CERALENE[®]
polyolefin waxes
synthetic waxes



Company Introduction

euroceras is a manufacturer of a broad range of synthetic waxes under the brand name CERALENE®. **euroceras** can look back onto a more than 45 years experience in the production of polyethylene waxes. **euroceras** has reactors for the production of non polar LDPE-, HDPE-, PP- waxes as well as polar copolymer waxes and unique polyester waxes. Main application fields of **CERALENE®** waxes in plastics are dispersion in color and additive masterbatches, external and internal lubrication in PVC processing as well as flow improvement in technical plastics and fibre filled compounds. For applications in polar plastics

euroceras is producing PE/MAA-copolymer waxes and unique synthetic polyester waxes which have similar properties like montan waxes.

euroceras has been established within the last years on the market as a reliable, global acting supplier of high quality waxes. **euroceras** acts flexible, innovative and fast to offer best possible solutions to customers. The company is certified by ISO 9001:2015 and ISO 14001:2015 quality management system to meet customers high quality demands.



CERALENE® waxes

For different kinds of technical applications

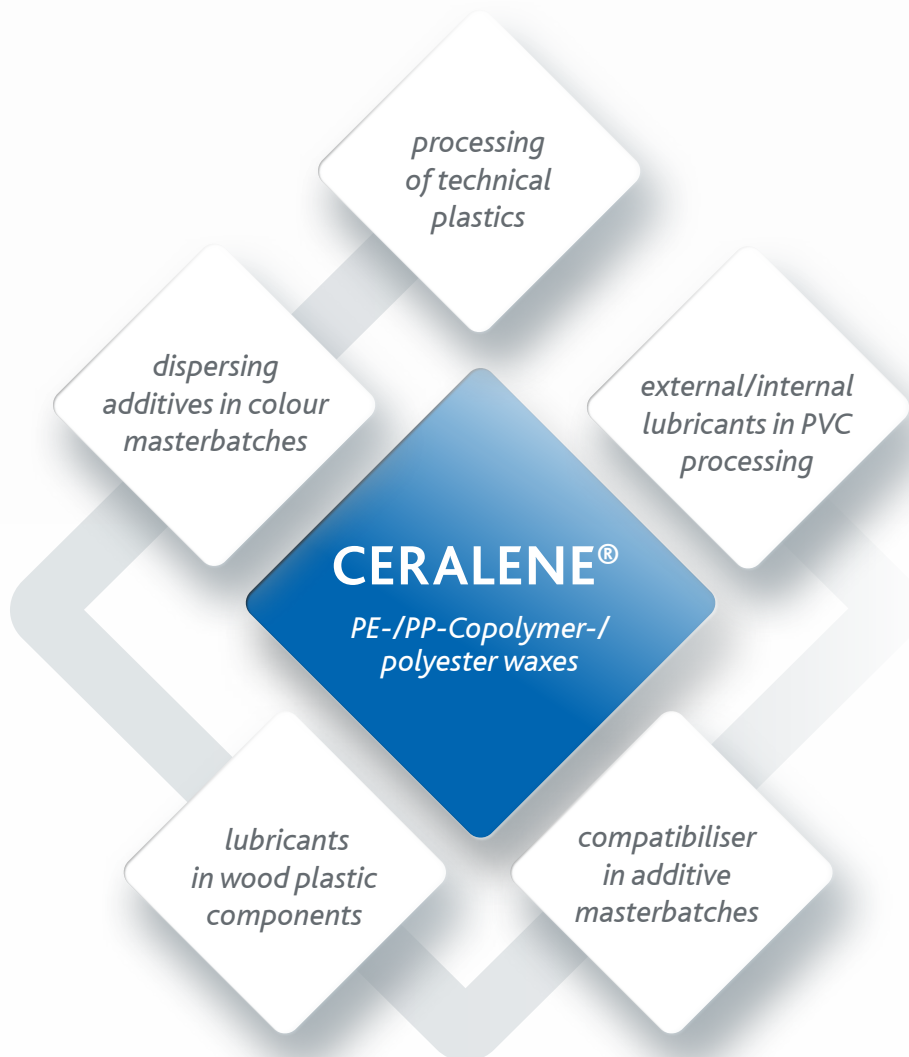
- colour masterbatches (dispersing additive)
- PVC (ext. release, surface improvement, int./ext. lubricant)
- technical plastics (flow/surface improvement, mould release)
- additive masterbatches (dispersing additive, compatibilizer)
- duroplasts (flow, levelling, pigment dispersion)
- pigment and fillers (surface coating)
- rubber processing (release)
- powder coatings (flow/levelling/scratch resistance)
- bitumen
- hot melt adhesives
- aqueous and solvent based coating systems
- toner
- also for cosmetic applications

Status under food legislation

FDA/BfR and Regulation (EU) No. 10/2011 on request.

Table of contents

- 2 - 3** Introduction
- 4 - 5** **CERALENE®** product overview
- 6 - 7** Technical Details of **CERALENE®** polyester waxes
 - 7** Applications of **CERALENE®** copolymer waxes and PP waxes
 - CERALENE®** waxes for plunger lubrication
- 8** International distributors
Impressum



CERALENE® types for a broad range of industrial applications

Benefits

- plasticising
- viscosity reduction
- internal/external lubrication
- reduced energy input/friction
- slip and anti-blocking effect
- improved wetting of pigments, fillers and fibres

Survey about CERALENE® types

	CERALENE® grade	wax type	appearance*	density [g/cm³] at 23°C	drop point [°C]	viscosity [mPa · s] at 120°C	penetration [mm · 10 ⁻¹] at 25°C	acid value [mg KOH/g]
non-oxidised	1X	LDPE	white micro prills	0.92	102	170	4	0
	1M	LDPE	white micro prills	0.92	104	240	3	0
	2E	LDPE	white micro prills	0.92	106	550	2	0
	2H	LDPE	white micro prills	0.92	109	850	2	0
	2T	LDPE	white micro prills	0.92	109	1.100	2	0
	2P	LDPE	white micro prills	0.92	115	600**	2	0
	2G	LDPE	white micro prills	0.93	109	140	3	0
	2V/220	LDPE	white micro prills	0.92	101	220	3	0
	2V/320	LDPE	white micro prills	0.92	101	320	3	0
	3G	PE	white micro prills	0.93	111	80**	2	0
	120/200	HDPE	almost white micro prills	0.96	122	200**	< 1	0
	120	HDPE	almost white micro prills	0.96	122	400**	< 1	0
	120/800	HDPE	almost white micro prills	0.96	122	800**	< 1	0
	882	Polyolefin	almost white micro prills	0.92	146	175***	2	0
	885	Polyolefin	almost white micro prills	0.91	150	225***	< 1	0
	850	PP	almost white micro prills	0.90	152	80***	< 1	0
	691	Polyester mod.	white micro prills	0.97	70	130	3	10
	692C	Polyester mod. cosmetic grade	white micro prills	0.97	60	300	5	12
	693	Polyester mod.	white micro prills	0.97	70	300	3	16
	694	Polyester mod.	white micro prills	0.97	70	170	3	19
functionalised	CP15M	Polar copolymer	off-white micro prills	0.93	104	500**	3	16
	CP30M	Polar copolymer	off-white micro prills	0.93	102	500**	4	30
	CP45M	Polar copolymer	off-white micro prills	0.93	98	600**	5	40
	CP50M	Polar copolymer	off-white micro prills	0.93	96	750**	6	52
	CP12H	Polar copolymer	off-white micro prills	0.95	122	800**	1	14
	CP14P	Polar copolymer	off-white micro prills	0.91	152	150***	< 3	13
	1007	HDPE	almost white fine grain	0.95	121	170	1	7-8

* white micro prills: D50 ~ 0.7 mm, ** at T=140 °C, *** at T=170 °C

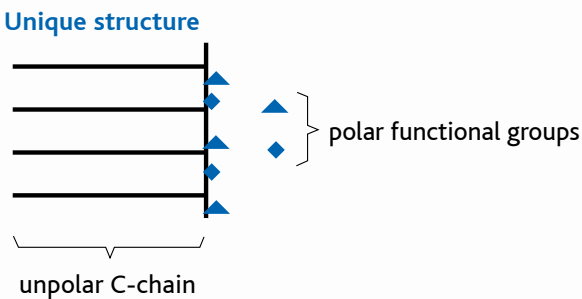
	CERALENE®	masterbatch	technical resins	PVC	wood/fibre-plastic composites	bitumen	hotmelt adhesive	powder coatings	solvent based formulations (slip abrasion resistance)	water based additives (surface modification)
non-oxidised	1X	○		○		+		○	○ ¹⁾	
	1M	○		+					++ ¹⁾	
	2E	++		++	++			+	+ ¹⁾	
	2H	++	○	+	++			++	○ ¹⁾	
	2T	++	○	+	++			++	○ ¹⁾	
	2P	++	+	+	++					
	2G	○		++						
	2V/220	++		++					++	
	2V/320	++		++					++	
	3G			++		+		+		
functionalised	120/200			○		++	+			
	120	○		○		++	+			
	120/800	+		○		++	+			
	882	++		○		+	○			
	885	+				+	○			
	850	++			++	++	++	○		
	691	++	++	+	++		+		++	
	692C		in cosmetics – especially for the manufacturing of lip sticks							
	693	++	++	++	++		+		++	
	694	++	++	++	++		+		++	
	CP15M	++	++	++	++	++	++			
	CP30M	++	++	++	++	++	++			+
	CP45M	++	++	++	++	++	++			++
	CP50M	++	++	++	++	++	++			++
	CP12H	++	++	++	++	++	++			++
	CP14P	+	++		++	+	+		++	++
	1007	+			○	+	+	○	○	++

○ suitable + recommended ++ specially recommended

¹⁾ inks

Synthetic CERALENE® polyester waxes

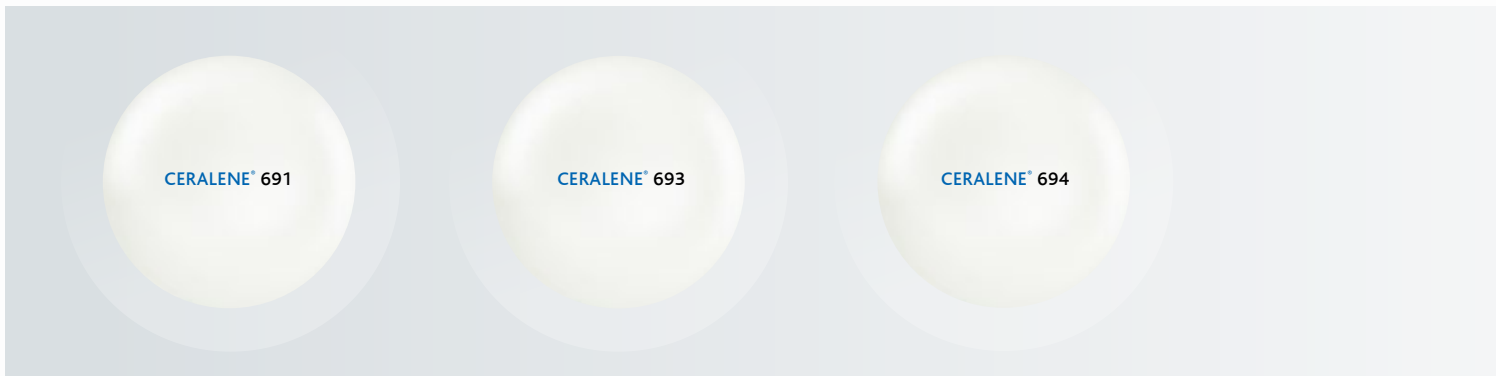
Synthetic alternatives
to montan waxes



Excellent thermal stability

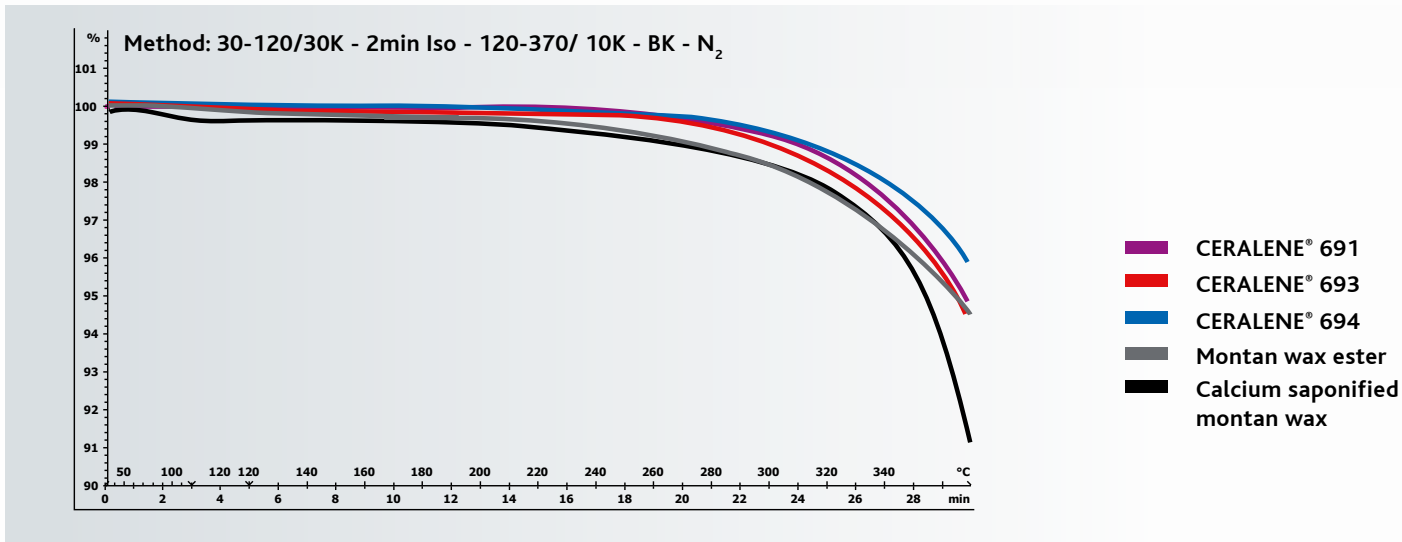
Colour stability

Air draft oven at 160 °C, 24 hours



Heat stability

Comparison heat stability of CERALENE® Polyester waxes vs. Montan waxes by TGA



	CERALENE® 691	CERALENE® 693	CERALENE® 694	Montan wax ester	Calcium saponified montan wax
TGA range °C	weight loss				
30-250	0,19 %	0,30 %	0,32 %	0,70 %	0,76 %
30-300	0,80 %	0,88 %	1,01 %	1,67 %	1,55 %

Excellent compatibility with polar and non-polar resins

Resin	Dosage CERALENE 694 (%)	Visual
Polycarbonate	0.4	+, slightly opaque
Polystyrene	0.5	+, slightly opaque
Polyamide	0.3	++
ABS	0.4	++
POM	0.3	++
PET	0.3	++
PP	0.3	++

CERALENE® CP15M, CP30M, CP45M and CP50M

Polar copolymer wax

- as dispersing additive in colour masterbatches (e.g. for PP, PA, PE, PS, PC or ABS)
- in PVC as internal lubricant
- as compatibiliser between polar and non-polar resins as well as for fibres / fillers
- in hot melt applications / as adhesion promotor

CERALENE® CP12H, CP14P

Polar copolymer wax

- hot melt applications
- glass fibre sizing
- emulsions

CERALENE® 850

PP homopolymer wax

- as dispersing additive for PP masterbatches, especially PP fibre masterbatches
- as additive for toner production
- hot melt applications

CERALENE® waxes for plunger lubrication

Use as high performance plunger lubricant for aluminium die-casting machines.

CERALENE®	wax type	appearance	particle size [mm]	drop point [°C]	viscosity [mPa · s] at 120°C
DCG	LDPE/graphite	black prills	<2.0	108	600

International distributors

Europe

Austria, Germany

ceronas GmbH & Co.KG
Hugo-Wagener-Straße 3, DE-55481 Kirchberg
Phone: +49 6763 63350-0
E-mail: info@ceronas.de
www.ceronas.de

Belgium, France, Luxembourg

Lapasse Additives Chemicals
17, rue Salvador Allende, FR-95210 Saint-Gratien
Phone: +33 1 39 89 58 40
E-mail: information@lapchem.fr
www.lapchem.fr

Denmark, Finland, Norway, Sweden

TER NORDIC APS
Rosenbæk Torv 1, 4. sal, DK-5000 Odense
Phone: +45 70 5000 40
E-mail: nordic@terchemicals.com
www.ternordic.com

Ireland

TER (UK) LTD.
Milton Hall, Ely Road, Milton, GB-Cambridge CB24 6WZ
Phone: +44 1223 8286 40
E-mail: info@teruk.co.uk
www.teruk.co.uk

Italy

EICO NOVACHEM Srl
Via Cosimo del Fante, 4, IT-20122 Milano
Phone: +39 02 5844291, Mobile: +39 348 1548402
E-mail: vcari@eiconovachem.it
www.eiconovachem.it

Poland, Estonia, Latvia, Lithuania

PROCIMA Sp.z.o.o.
ul. Narbutta 39 m. 3, PL-02-536 Warszawa
Phone: +48 22 6 46 70 22
E-mail: procima@procima.pl
www.procima.pl

Portugal, Spain

SINEX S.L.
C/Nerviñ, 4 (Lonja), ES-48001 Bilbao
Phone: +34 94 4 23 26 93
E-mail: comercial@sinexsl.com
www.sinexsl.com

Switzerland

Distona AG
Hauptplatz 5, CH-8640 Rapperswil-Jona
Phone: +41 55 533 00 50
E-mail: info@distona.ch
www.distona.ch

The Netherlands

TER Chemicals GmbH & Co. KG
Börsenbrücke 2, DE-20457 Hamburg
Phone: +49 40 300501 8013
E-mail: j.vinke@terchemicals.com
www.terchemicals.com

Turkey

Prosim Diş Ticaret Kimya San. A.Ş.
Rumelihisari Mahallesi Kaleagasi Sokak
TR-34470 Sariyer/Istanbul
Phone: +90-212-263 78 21
E-mail: semih.iscimenler@prosim.com.tr
www.prosim.com.tr

Ukraine

PROCIMA 2 LTD
Medova Str. 2, UA-46008 Ternopil
Phone: +380 6737 04029
E-mail: procima-ua@ukr.net
www.procima-ua.all.biz

United Kingdom

Manchester Chemicals Ltd (Plastics)
16 George Street, Alderley Edge, GB-Cheshire SK9 7EJ
Phone: +44 1625585495
E-mail: info@manchesterchemicals.com
www.manchesterchemicals.com
TER (UK) LTD. (All Applications besides Plastics)
Milton Hall, Ely Road, Milton, GB-Cambridge CB24 6WZ
Phone: +44 1223 8286 40
E-mail: info@teruk.co.uk
www.teruk.co.uk

Middle East

UAE, KSA; Qatar, Kuwait, Bahrain, State of Oman

IMEATECHNOLOGIES FZE
P.O.BOX 120203, A03-096, SAIF ZONE,
SHARJAH, United Arab Emirates
Phone: +971 65 57 48 00, Mobil: +971 55 49 42 22 1
E-mail: joshy@imeatech.com
www.imeatech.com

Africa

Africa (except South Africa and Egypt)

TRANSMARE CHEMIE NV
Theaterbuilding 15th floor, Italiel 124,
2000 Antwerpen, Belgium,
Phone: +32 3 213 98 40
E-mail: info@transmare.com
www.transmare.com

Egypt

Newtrac Trading
22, El Emam Aly St.
Heliopolis, Cairo- Egypt, Phone: +20-2-2419-1613,
Phone: +20-2-2290-1975, Fax: +20-2-2417-4767
E-mail: newtrac.cairo@newtrac.com
www.newtrac.com

South-Africa

Ziva Chem (Pty) Ltd
P.O. Box 73516, Fairland, 2030 South Africa
Phone: +27 82 850 9483
E-mail: roelof@zivachem.com
www.zivachem.com

North-/South America

Argentina, Chile, Uruguay

ceronas GmbH & Co.KG
Hugo-Wagener-Str. 3, 55481 Kirchberg, Germany
Phone: +49 67 63 63 35 00
E-mail: info@ceronas.de
www.ceronas.de

Canada

Arya Chem Inc.
4789 Yonge Street, Suite 1203
Toronto, Ontario M2N 0G3, Canada
Phone: +1 416 217-0666
E-mail: info@aryachem.com
www.aryachem.com

Colombia

Reciend S.A.S
Calle 24A # 25 - 73, Apartado Aéreo (P.O.B.) 3717,
Bogotá - Colombia
Phone: +57 (1) 518-8900, Mobile: +57 316 320 5293
E-mail: desarrollo.proyectos02@reciend.com
www.reciend.com

Mexico

SPECIALPY CHEMICALS S.A. DE C.V.
Valle de Solis # 73, Fracc. El Mirador, C.P. 53050
Naucalpan, Edo Mexico
Phone: +52 55 53 73 76 25, Mobile: +52-55 5109 2132
E-mail: ernesto_garciarm@specialpychemicals.com.mx
www.specialpychemicals.com.mx

Peru

Laurus S.A.C.
Jr. Monsefú 903, Urb. Zona Industrial Lima
Lima 01, Lima, Perú
Phone: +51 01 336-5412
E-Mail: info@laurusperu.com
www.laurusperu.com

United States of America

Gehring Montgomery, INC.
710 Louis Drive, Warminster, PA. 18974, USA
Phone: +1-630-746-9105
E-mail: Condon@gehring-montgomery.com
www.gehring-montgomery.com

Asia

China

H.J. Unkel (Shanghai) International Trading Co., Ltd.
Building 28, No 1288 Zhongchun Road,
Minhang District, Shanghai 201109 China
Phone: +86 21 5169 1088, Fax: +86 21 5282 9830
E-mail: marketing@hjunkel-china.com
www.hjunkel-china.com

H.J. Unkel (Foshan) Ltd., Room 2204, D Building
Tongji Plaza, 66 Tongji Road, Foshan, 528000 P.R. China
Phone: +86 757 8333 1488, Fax: +86 757 8335 9715
E-mail: foshan@hjunkel.com
www.hjunkel.com.cn

H.J. Unkel (Beijing) Office
Room.1004, Unit.2, Huihuang Guoji Buiding,
No.1 Shangdi Shi Street Haidian District. Beijing.
P.R. China (zc:100085)
Phone: +86 10 6440 5853, Fax: +86 10 5971 3761
E-mail: marketing@hjunkel-china.com
www.hjunkel-china.com

H.J. Unkel (Chongqing) Office

20-8, Block 2, No. 6 Shandu Road, Nanping Street,
Nanan District, Chongqing, China
Phone: +86 23 86364773 / 86364667,
Fax: +86 23 86364746
E-mail: donald@hjunkel.com
www.hjunkel.com.cn

Hong Kong

H.J. Unkel Ltd.
12G, Greenmont Court,
Discovery Bay, Hong Kong
Phone: +852-27630310
E-mail: unkel@hjunkel-china.com
www.hjunkel-china.com

India / Sri Lanka

Krishna Enterprise
408-409, Aravalli Business Centre, R.C. Patel Road,
Borivali West, Mumbai 400092, Maharashtra, India
Phone: +91 22 28924776 / 28924777
Mobile: +91 9819036601
E-mail: gaurang@krishnaenterprise.org
www.krishnaenterprise.org

Indonesia

pt agape theresindo
Jakarta Garden City Ruko Cleon Park No.9, Cakung Timur,
Cakung - Jakarta Timur 13910, Indonesia
Phone: +62 21 80607973, Mobile: +62 816 974-143
E-mail: merryganda@agape-theresindo.com
www.agape-theresindo.com

Japan

ESTCHEM CO., LTD.
3F Horai Horidome Bldg., 1-8-12
Nihombashi-Horidomecho
Chuo-ku, Tokyo, 103-0012, Japan
Phone: +813-5614-4610
E-mail: n-komatsu@estchem.co.jp
www.estchem.co.jp

Korea

Magtec Co., Ltd.
4th Floor, Woojeong BD, Dogok-ro 7gil 28,
Gangnam-Gu, Seoul, Korea 06255
Phone: +82-2-553-2721
E-mail: magtec@magtec.kr
www.magtec.kr

Malaysia, Singapore

H.J. Unkel Ltd.
12G, Greenmont Court,
Discovery Bay, Hong Kong
Phone: +852-27630310
E-mail: unkel@hjunkel-china.com
www.hjunkel-china.com

Pakistan

D.S ENTERPRISES
701/A, Chohan Park, Taj Company Chowk,
Main Bund Road, Lahore, PAKISTAN
Phone: +92 42 37146688, Phone: +92 42 37146687
Mobile: +92 333 4394551
E-mail: ds.chemicals@gmail.com,
E-mail: imran.ds11@gmail.com

Taiwan

Kingyorker Enterprise Co., Ltd.
4th Floor, No. 159 Xing Ai Road, Taipei Taiwan 11494
Phone: +886 2 87 91 85 89, Fax: +886 2 87 91 181 89
E-mail: jim.tseng@kingyorker.com
www.kingyorker.com

Thailand

H.J. UNKEL Chemical (Thailand) Ltd.
22 Soi Ekachai 53, Ekachai Road, Kwaeng Bangbon,
Khet Bangbon, Bangkok 10150
Phone: +66 2 898-0411-14, Fax: +66 2 898-0415
E-mail: hjunkelchemicalthai@gmail.com

Vietnam

H.J. Unkel Ltd.
12G, Greenmont Court,
Discovery Bay, Hong Kong
Phone: +852-27630310
E-mail: unkel@hjunkel-china.com
www.hjunkel-china.com

Oceania

Australia, New Zealand

TDT Chemicals PTY LTD
P O BOX 324, Bullen, VIC, 3105, Australia
Phone: +61 3 9850 8764
E-mail: sales@tdtchems.com.au
www.tdtchems.com.au

All information given here are based on our own research or the research of others and believed to be accurate and shall give the user guidance for the application. Nevertheless these data are no specification and due to the versatile possible formulations, applications, processings and further parameters at the formulator/user the usage of these products has to be tested carefully in the particular system/application by the formulator/user. All information mentioned here are not warranted properties. There is no responsibility of the seller if the materials are used outside the recommended field of use; any liability, also for any patent infringement, cannot be derived from this.