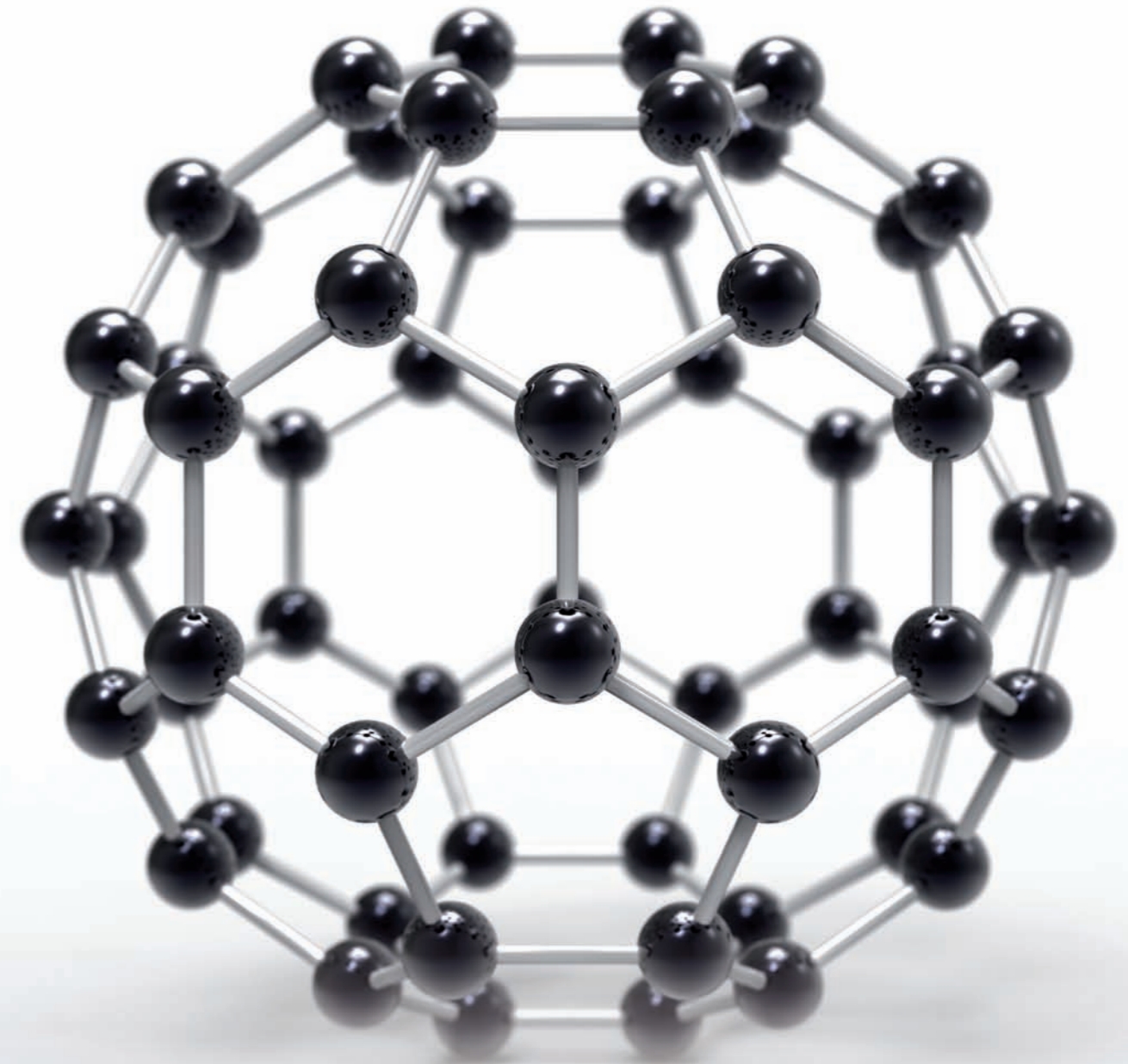


QUALITY CONNECTS.



Health and Safety Information

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling the LANXESS products mentioned in this publication. For materials mentioned which are not LANXESS products, appropriate industrial hygiene and other safety precautions recommended by their manufacturers should be followed. Before working with any of these products, you must read and become familiar with the available information on their hazards, proper use and handling. This cannot be over-emphasized. Information is available in several forms, e.g., material safety data sheets, product information and product labels. Consult your LANXESS representative in Germany or contact the Health, Safety, Environment and Quality Department (HSEQ) of LANXESS Germany or – for business in the USA – the LANXESS Product Safety and Regulatory Affairs Department in Pittsburgh, PA, USA.

Regulatory Compliance Information

Some of the end uses of the products described in this publication must comply with applicable regulations, such as the FDA, BfR, NSF, USDA, and CPSC. If you have any questions on the regulatory status of these products, contact your LANXESS Corporation representative, the LANXESS Regulatory Affairs Manager in Pittsburgh, PA or the Health, Safety, Environment and Quality Department (HSEQ) of LANXESS Deutschland GmbH in Germany.

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information.

Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of any patent.

Edition 3/2019

LANXESS

LANXESS Distribution GmbH

LANXESS Distribution GmbH

Chempark Leverkusen
51369 Leverkusen
Germany

Tel.: +49 (0) 221 8885 5212
www.lanxess-distribution.com



INDUSTRIAL MARKETS
Product Overview

QUALITY WORKS.

LANXESS

LANXESS Distribution GmbH

Regional Sales Europe

Benelux / Germany / Switzerland

Peter Gallert

Phone: +49 221 88 85 34 92

Mobile: +49 175 30 19 167

E-Mail: peter.gallert@lanxess.com

Martin Wiemer

Phone: +49 221 88 85 42 02

Mobile: +49 151 74 61 26 38

E-Mail: martin.wiemer@lanxess.com

Central + South Eastern Europe

Hristo Kabakchiev

Mobile: +421 915 913 131

E-Mail: hristo.kabakchiev@lanxess.com

Poland

Robert Rozej

Mobile: +48 784 580 482

E-Mail: robert.rozej@lanxess.com

France

Stephanie Galois-Drouard

Phone: +33 1 80 46 30 18

Mobile: +33 6 09 76 97 07

E-Mail: stephanie.galois-drouard@lanxess.com

Spain / Portugal

Rosa Maria Oñate

Phone: +34 933 415 249

Mobile: +34 629 721 369

E-Mail: rosa-maria.onate@lanxess.com

Turkey

Sadet Ersungur

Phone: +90 216 600 03 11

Mobile: +90 530 150 66 68

E-Mail: sadet.ersungur@lanxess.com

United Kingdom / Ireland

John Kenny

Phone: +44 1635 568 651

Mobile: +44 7833 432 756

E-Mail: john.kenny@lanxess.com

Dominika Blaszkow

Phone: +44 163 556 8648

Mobile: +44 7554 995 304

E-Mail: dominika.blaszkow@lanxess.com

Regional Sales Central / North America

USA / Canada

Tony Mazzarella

Phone: +1 412 809 1522

Mobile: +1 412 398 5749

E-Mail: tony.mazzarella@lanxess.com

Mason Schoch

Phone: +1 412 809 3779

Mobile: +1 412 393 9923

E-Mail: mason.schoch@lanxess.com

Mexico

Eloisa Miranda

Phone: +52 55 5262 4347

Mobile: +52 155 4355 4342

E-Mail: eloisa.miranda@lanxess.com

Regional Sales South America

Argentina / Brazil / Chile

Denise Nasi

Phone: +55 11 3741 1536

Mobile: +55 11 98444 3289

E-Mail: denise.nasi@lanxess.com

Regional Sales Asia

China

JiMing Yan

Phone: +86 21 6109 8370

Mobile: +86 186 1601 7980

E-Mail: jiming.yan@lanxess.com

Head of Industrial Markets

Jane Shuttleworth

Phone: +49 221 88 85 53 37

Mobile: +49 175 30 19 155

E-Mail: jane.shuttleworth@lanxess.com

Technical Marketing

Qin Zhu-Ohlbach

Phone: +49 221 88 85 40 07

Mobile: +49 175 30 23565

E-Mail: qin.zhu-ohlbach@lanxess.com

WELCOME TO LANXESS DISTRIBUTION

LANXESS is a leading specialty chemicals company, currently represented at 60 production sites worldwide. The core business of LANXESS is the development, manufacturing and marketing of chemical intermediates, additives, specialty chemicals and plastics.

As a 100% subsidiary, LANXESS Distribution is focused on the marketing and distribution of high-quality chemical products, providing expert solutions and specialist advice to our customers.

Our Industrial Markets portfolio includes products for a broad spectrum of industrial applications including **Polymer & Rubber, Water Treatment, Chemical Synthesis, Coatings, Adhesives, Sealants, Construction, Heat Transfer Fluids, Lubricants and Electroplating.**

Combined with our technical expertise, international network, flexible lot sizes and outstanding service, this has made us a reliable, long-term partner for industry worldwide.

QUALITY CONNECTS.



LANXESS Distribution headquarters in Leverkusen, Germany

Organometallics

LANXESS' Organometallics business specializes in the manufacturing and marketing of highly reactive, metal containing specialties.

They are used as follows:

- Essential components for catalyst systems for olefin oligomerization and polymerization
- Tailored glass coating formulations applied in pyrolytic CVD-processes resulting in firm, thin transparent layers of tin oxide S_nO_2

- Specialties used in Chemical Vapor Deposition applications for manufacturing of photovoltaic modules
- Tailored precursors used in the semiconductor industry
- High performance catalysts which are used for the curing of Electro Deposition Coating (EDC), especially anti-corrosion primer coatings for car bodies
- Reagents in the production of pharmaceuticals and other fine chemicals to conduct complex chemical reactions

Function	CAS	Name
Coatings Catalysts	Mixture	AXION® CS Range
Glass Coating	Mixture	AXION® GS Range
Industrial Tin Intermediates	Mixture	AXION® CS Range
Pharma and Fine Chemicals	Mixture	AXION® PS Range
	Mixture	AXION® PZ Range
	1191-15-7	Diisobutylaluminium hydride (DIBAH)
	100-99-2	Triisobutylaluminium (TIBA)
Photovoltaic	557-20-0	AXION® EZ 2201 HP (Diethylzinc)
	1118-46-3	AXION® GS 1430 (stabilized Monobutyltinchloride)
	Mixture	AXION® PV Range
	557-20-0	Diethylzinc
Polymerization Catalysts	Mixture	AXION® CA Range
	Mixture	AXION® CB Range
	Mixture	AXION® CS Range
	Mixture	AXION® DC Range
	Mixture	AXION® DP Range
	Mixture	AXION® DX Range
	Mixture	AXION® ZR Range
	96-10-6	Diethylaluminium chloride (DEAC)
	1586-92-1	Diethylaluminium ethoxide (DEALOX)
	1779-25-5	Diisobutylaluminium chloride (DIBAC)
	1191-15-7	Diisobutylaluminium hydride (DIBAH)
	1184-58-3	Dimethylaluminium chloride (DMAC)
	563-43-9	Ethylaluminium dichloride (EADC)
	12075-68-2	Ethylaluminium sesquichloride (EASC)
1888-87-5	Isobutylaluminium dichloride (IBADIC)	
12542-85-7	Methylaluminium sesquichloride (MASC)	
85722-08-3	Bis(n-butylcyclopentadienyl)hafnium dichloride (TA02823)	
73364-09-7	Bis(n-propylcyclopentadienyl)zirconium dichloride (TA 02882)	
1271-19-8	Biscyclopentadienyltitanium dichloride (TA03144)	
97-93-8	Triethylaluminium (TEA)	
97-93-8	Triethylaluminium low hydride (TEA LH)	
1116-73-0	Trihexylaluminium (THA)	
1070-00-4	Trioctylaluminium (TOA)	
Semiconductors	75-24-1	AXION® PA 1300 (trimethylaluminium)
	1284-72-6	Bis(Cyclopentadienyl) Magnesium
	1115-99-7	Triethylgallium (TEG)
	75-25-1	Trimethylaluminium (TMA)
	215-897-6	Trimethylgallium (TMG)
3385-78-2	Trimethylindium (TMI)	

Urethanes

LANXESS Urethane Systems is a world leader in specialized systems for urethane elastomers, coatings, adhesives and sealants. Our specialized polyurethanes systems know-how, global production capabilities, deep application expertise and decades of technical experience enable us to provide solutions tailored to meet our customers' needs:

- Hot Cast Systems including Prepolymers and Additives
- Specialty Aqueous Polyurethane Dispersions (PUDs)
- Prepolymers and Additives for Surface Coatings, Adhesives and Sealants

- Specialty Thermoplastic Polyurethanes (TPU)
- Polyester Polyols for various PU systems

Lanxess places strong focus on the sustainability of its products and has developed the broadest portfolio of Low Free (LF) isocyanate products – LF TDI, LF MDI, LF HDI, LF PPDI – which provide performance, processing and environmental, health and safety advantages.

Function	CAS	Name
Blocked Isocyanate Crosslinker	Mixture	Trixene®
Cast Prepolymers	Mixture	Adiprene®, Adiprene® LF, Royalcast®, Vibrathane®
Curatives	Mixture	Royalcast®, Vibracure®
Low Free Prepolymers	Mixture	Adiprene® LF
Polyurethane Dispersions	Mixture	Witcobond®
Ribbon Flow Rotational Cast Prepolymers	Mixture	Adiprene® RF
Urethane Prepolymers	Mixture	Adiprene®, Trixene®, Vibrathane®

Rubber Additives

Function	International abbreviation	Name
Accelerators	e.g. MBT, MBTS, CBS, TBBS, DCBS	Vulkacit® Range
Antioxidants	e.g. IPPD, 6PPD, 77RD, TMQ	Vulkanox® Range
	128-37-0	Vulkanox® BHT
	119-47-1	Vulkanox® BKF
Blowing Agents	Mixture	Genitron® Range
Peptizing Agents	e.g. DBD	Renacit® Range
Others	Mixture	Glass fiber



Synthesis Chemicals

Function	CAS	Name
Catalysts	14024-18-1	Tris (2,4-pentanedionato)-iron
Intermediates	530-62-1	1,1'-Carbonyl-bis-imidazole
	288-88-0	1,2,4-Triazole
	3209-22-1	2,3-Dichloronitrobenzene
	583-59-5	2-Methylcyclohexanol
	028479-22-3	3-Chloro-4-methylphenyl isocyanate
	95-76-1	3,4-Dichloroaniline
	102-36-3	3,4-Dichlorophenylisocyanate
	98-53-3	4-tert Butylcyclohexanone
	124-04-9	Adipic acid
	62-53-3	Aniline
	84-65-1	Anthraquinone
	16940-66-2	Bayboran® / Sodium borohydride
	100-52-7	Benzaldehyde
	98-88-4	Benzoylchloride
	100-51-6	Benzyl alcohol
	100-46-9	Benzylamine
	100-44-7	Benzylchloride
	108-90-7	Chlorobenzene
	108-93-0	Cyclohexanol
	108-91-8	Cyclohexylamine
	108-94-1	Cyclohexanone
	101-83-7	Dicyclohexylamine
	762-04-9	Diethylphosphite
	868-85-9	Dimethylphosphite
	122-39-4	Diphenylamine
	541-41-3	Ethyl Chloroformate
	302-01-2	Hydrazine Hydrate
	108-39-4	m-Cresol
	6294-89-9	Methyl carbazate
	79-22-1	Methyl Chloroformate
	99-08-1	m-Nitrotoluene
	108-44-1	m-Toluidine
109-61-5	n-Propylchloroformate	
611-19-8	o-Chlorobenzylchloride	
95-51-2	o-Chloroaniline	
95-49-8	o-Chlorotoluene	
95-48-7	o-Cresol	
95-50-1	o-Dichlorobenzene	
88-72-2	o-Nitrotoluene	
95-53-4	o-Toluidine	
104-83-6	p-Chlorobenzylchloride	
106-47-8	p-Chloroaniline	
104-12-1	p-Chlorophenylisocyanate	
106-43-4	p-Chlorotoluene	
1885-14-9	Phenylchloroformate	
103-71-9	Phenyl isocyanate	
10025-87-3	Phosphorus oxychloride	
3982-91-0	Phosphorus sulfochloride	
7719-12-2	Phosphorus trichloride	
85-41-6	Phthalimide	
99-99-0	p-Nitrotoluene	
156-43-4	p-Phenetidine	

Synthesis Chemicals

Function	CAS	Name
Intermediates	106-49-0	p-Toluidine
	7789-12-0	Sodium Dichromate
	112-96-9	Stearylisocyanate
	10025-67-9	Sulfur chloride
	7791-25-5	Sulfuryl chloride
	7719-09-07	Thionyl chloride
	61788-44-1	Tristyrylphenol
Tertiary Amine	766-09-6	N-Ethylpiperidine



Adhesives, Sealants and Construction

Function	CAS	Name
Accelerators	3077-12-1 / 878391-30-1	Accelerator PT25E
	38668-48-3	Dipropoxy-p-toluidine
	91-99-6	Dioxethyl-m-toluidine
	3077-12-1	N,N Dihydroxyethyl-p-toluidine
	91-66-7	N,N Diethylaniline
Antioxidants	e.g. BHT, BKF, SKF	Vulkanox® Range
Binders	7778-18-9	Calciumsulfate binder CAB 30
	544-17-2	Calcium formate
Blocked Isocyanate crosslinker	Mixture	Trixene®
Low Free Prepolymers	Mixture	Adiprene® LF
Monomers	629-11-8	1,6-Hexanediol
	124-04-9	Adipic acid
	77-99-6	Trimethylolpropane
Polyurethane Dispersions	Mixture	Witcobond®
Solvents	100-51-6	Benzyl alcohol
	122-99-6	Phenoxyethanol
Others	Mixture	Glass fiber
	112-96-9	Stearylisocyanate

Water Treatment

Function	CAS	Name
Alkalisng Agents	108-91-8	Cyclohexylamine
Corrosion Inhibitors	95-14-7	Benzotriazole
	302-01-2	Hydrazine Hydrate
	302-01-2	Levoxin®
	2492-26-4	Sodium-2-mercaptobenzothiazole
	29385-43-1	Tolyltriazole
Ion Exchange Resins	Mixture	Lewatit® Range
Iron Oxide Adsorbers	Mixture	Bayoxide® E Range
RO Membrane Elements	Mixture	Lewabrane® Range

Polymer Applications

Function	CAS	Name
Accelerators	3077-12-1, 878391-30-1	Accelerator PT25E
	38668-48-3	Dipropoxy-p-toluidine
	91-99-6	Dioethyl-m-toluidine
	3077-12-1	N,N Dihydroxyethyl-p-toluidine
	91-66-7	N,N DiethylanilineAdditives
Additives	98-53-3	4-tert Butylcyclohexanone
	4182-80-3	IR-Absorber 2052 compound A /B
Antioxidants	128-37-0	Vulkanox® BHT
	119-47-1	Vulkanox® BKF
Blowing Agents	Mixture	Genitron® Range
Cast Prepolymers	Mixture	Adiprene®, Adiprene® LF, Royalcast®, Vibrathane®
Intermediates	629-11-8	1,6-Hexanediol
	124-04-9	Adipic acid
	105-60-2	Caprolactam
	302-01-2	Hydrazine Hydrate
Ribbon Flow Rotational Cast Prepolymers	Mixture	Adiprene® RF
Solvents	100-51-6	Benzyl alcohol
Others	Mixture	LANXESS Anti-fog/Antidrop DP1-1701
	108-93-0	Cyclohexanol
	0108-39-4	m-Cresol
	77-99-6	Trimethylolpropan
	Mixture	Glass fiber
	Mixture	Initiator BK

Lubricants

Function	CAS	Name
Aluminium Cold Impact Extrusion Mixture		Ducalan®
Antioxidants	128-37-0	Vulkanox® BHT
Corrosion Inhibitors	95-14-7	Benzotriazole
	868-85-9	Dimethylphosphite
	29385-43-1	Tolyltriazole
	2492-26-4	Sodium-2-mercaptobenzothiazole
Intermediates	629-11-8	1,6-Hexanediol
	62-53-3	Aniline
	106-49-0	p-Toluidine
	77-99-6	Trimethylolpropane
	61788-44-1	Tristyrylphenol
Solvents	100-51-6	Benzyl alcohol
	122-99-6	Phenoxyethanol
	770-35-4 / 4169-04-4	Phenoxypropanol
Others	108-91-8	Cyclohexylamine
	156-43-4	p-Phenetidine

Coatings

Function	CAS	Name
Accelerators	3077-12-1 / 878391-30-1	Accelerator PT25E
	38668-48-3	Dipropoxy-p-toluidine
	91-99-6	Dioxethyl-m-toluidine
	3077-12-1	N,N Dihydroxyethyl-p-toluidine
	91-66-7	N,N Diethylaniline
Additives	4182-80-3 / 5496-71-9	IR-Absorber 2052 compound A /B
Biocides	Mixture	Preventol® RI 50
Blocked Isocyanate Crosslinker	Mixture	Trixene®
Corrosion Inhibitors	95-14-7	Benzotriazole
	100-46-9	Benzylamine
	2492-26-4	Sodium 2-mercaptobenzothiazole
	29385-43-1	Tolyltriazole
Curatives	Mixture	Royalcast®, Vibracure®
Intermediates	629-11-8	1,6 Hexanediol
	124-04-9	Adipic acid
	302-01-2	Hydrazine Hydrate
	95-48-7	o-Cresol
	122-99-6	Phenoxyethanol
	770-35-4	Phenoxypropanol
Polyurethane Dispersions	Mixture	Witcobond®
	77-99-6	Trimethylolpropane
Solvents	100-51-6	Benzyl alcohol
	105-58-8	Diethylcarbonate
	2409-55-4	2-tert-Butyl-4-methylphenol (MBPC)
Urethane Prepolymers	Mixture	Adiprene®, Trixene®, Vibrathane®
Others	Mixture	LANXESS Anti-fog/Anti-drop DP1-1701
	Mixture	Glass fiber

Electroplating

Function	CAS	Name
Chrome Plating	1333-82-0	Chromium Trioxide
Corrosion Inhibitors	95-14-7	Benzotriazole
	2492-26-4	Sodium-2-mercaptobenzothiazole
	29385-43-1	Tolyltriazole
Reducing Agents	16940-66-2	Bayboran® / Sodium borohydride
Solvents	100-51-6	Benzyl alcohol
	122-99-6	Phenoxyethanol
Others	100-52-7	Benzaldehyde

Heat Transfer Fluids

Function	CAS	Name
Heat Transfer Fluids	92-52-4 / 101-84-8	Diphyl®
	028299-41-4	Diphyl® DT
	27776-01-8 / 26898-17-9	Diphyl® KT
	61788-32-7	Diphyl® THT

Bayoxide®, Diphyl®, Genitron®, Levoxin®, Lewabrane®, Lewatit®, Preventol®, Renacit®, Vulkacit® and Vulkanox® are Trademarks of Lanxess Deutschland GmbH or its affiliates, registered in many countries in the world.

Bayboran® is a Trademark of Bayer AG.

Ducalan® is a registered Trademark of LANXESS Distribution GmbH, registered in many countries of the world.

