



Gp

Green Polymer  
Additives

Additives by Resin

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# CREATING VALUE for tomorrow, through all that we do today

From basics to semi-specialty and specialty chemicals, Emery Oleochemicals is dedicated to providing customers with best-in-class solutions through continuous product development and stringent quality standards. Derived from renewable resources, our products are predominantly made from natural oils and fats such as palm kernel oil and tallow. We pride ourselves on having a diverse portfolio of oleochemical products suited for a broad range of applications.

Our portfolio includes renewable solutions for the Agro Green, Bio-Lubricants, Green Polymer Additives, Home and Personal Wellness and OleoBasics markets.

## Leading product innovation naturally

We are committed to CREATING VALUE for you with our combined strengths in global manufacturing footprint, research and development, distribution, marketing and technical know-how. Uniquely packaged, our competitive advantage enables us to offer you innovative and competitive solutions designed to meet your needs.

Guided by an inventive spirit that goes beyond providing high-performance solutions, we are able to help your business deal with the challenges of a market that is going greener by the day. This makes us your preferred natural-based chemical solutions partner.



## Designing natural-based solutions in polymers for a better tomorrow

For over 60 years, we have been recognized as a leading innovator of a broad range of polymer additives with our high-performance natural-based chemical brands, LOXIOLO® and EDENOL®. For having successfully improved our customers' product performance and processing efficiencies, our solutions today can be found in growth markets such as housing and construction, automotive, packaging and electronics. Our products are also known to enhance the quality of items for everyday life including toys and sporting equipment.

As your preferred partner with leading technical expertise, we offer customized solutions based on product groups such as lubricants, plasticizer and viscosity depressants, anti-static and anti-fogging agents, release agents, surfactants, green polyols and specialty fatty acids.

We remain committed to delivering the highest in quality standards and innovative solutions while building a sustainable tomorrow in polymers.



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■ POLYVINYLCHLORIDE

Product	Function	Chemistry	Delivery Form	Melting Range (°C)	Dosage (%)
LOXIOLO G 10	Lubricant, internal	Glycerol partial ester	liquid	<4*	0.5-2.5
LOXIOLO G 10 V	Lubricant, internal	Glycerol partial ester	liquid	<0*	0.5-2.5
LOXIOLO G 11	Lubricant, internal	Fatty acid ester of polyol	liquid	<-10*	0.5-1.5
LOXIOLO G 13	Lubricant, internal	Fatty acid ester of polyol	liquid	<-10*	0.5-1.5
LOXIOLO G 16	Lubricant, internal	Glycerol partial ester	liquid	<0*	0.5-1.5
LOXIOLO G 40	Lubricant, internal	Wax ester	liquid	<7*	0.2-1.5
LOXIOLO P 1141	Lubricant, internal	Glycerol partial ester	liquid	<0*	0.5-1.5
LOXIOLO G 12	Lubricant, internal	Glycerol partial ester	solid	55-62	0.5-1.5
LOXIOLO G 12-40 / LOXIOLO G 12-40 V	Lubricant, internal	Glycerol partial ester	solid	55-61	0.5-1.5
LOXIOLO G 15 PULVER	Lubricant, internal	Fatty acid ester of polyol	solid	83-87	0.5-2.5
LOXIOLO G 41	Lubricant, internal	Wax ester	solid	69-77	0.5-1.5
LOXIOLO G 53	Lubricant, internal	Fatty alcohol	solid	49-54	0.5-1.5
LOXIOLO G 59	Lubricant, internal	Ester wax	solid	68-72	0.5-3.0
LOXIOLO G 60	Lubricant, internal	Dicarboxylic acid ester	solid	44-47	0.5-3.0
LOXIOLO G 62	Lubricant, internal	Fatty acid ester	solid	50-55	0.5-1.5
LOXIOLO G 63	Lubricant, internal	Fatty acid ester	solid	50-55	0.5-1.5
LOXIOLO G 72	Lubricant, internal	High molecular weight poly ester	solid	43-47	0.3-1.0
LOXIOLO GH 4	Lubricant, internal	Combination lubricant	solid	76-81	0.8-1.5
LOXIOLO 3591	Lubricant, internal	Combination lubricant	solid	100-108	0.2-1.5
LOXIOLO P 728	Lubricant, internal	Polyol partial ester	solid	49-52	0.5-1.5
LOXIOLO EP 3500	Lubricant, internal + external	Ca-stearate	solid	150-170	0.2-0.5
LOXIOLO G 30	Lubricant, internal + external	Wax ester	solid	46-49	0.5-1.5
LOXIOLO G 32	Lubricant, internal + external	Wax ester	solid	52-56	0.5-1.5
LOXIOLO G 34 R	Lubricant, internal + external	Ester wax	solid	53-58	0.5-1.5
LOXIOLO GS 891	Lubricant, internal + external	Combination lubricant containing metal soap	solid	95-101	1.5-2.0
LOXIOLO G 71 S	Lubricant, external	High molecular weight poly ester	liquid	<-20*	0.2-1.0
LOXIOLO 2050	Lubricant, external	Paraffin wax	solid	104-110	0.1-0.5
LOXIOLO 2899	Lubricant, external	Polyol ester	solid	70-80	0.3-0.8
LOXIOLO VPG 2571	Lubricant, external	Polyol ester	solid	75-80	0.3-0.8
LOXIOLO VPN 960	Lubricant, external	Polyol ester	solid	62-68	0.2-1.0
LOXIOLO VPN 963	Lubricant, external	Combination lubricant	solid	80-90	0.1-0.5
LOXIOLO G 24	Lubricant, external	Polyol ester	solid	50-55	0.3-0.8
LOXIOLO G 20	Lubricant, external	Fatty acid	solid	54-56	0.1-0.5

PVC-FIELDS OF APPLICATION

Product	PVC-P				PVC-U			
	Extrusion	Calendering	Injection Moulding	Paste	Profile, Sheet	Pipe	Injection Moulding	Film
LOXIOLO G 10	x	o	x	x				
LOXIOLO G 10 V	x	o	x	x				
LOXIOLO G 11					x			
LOXIOLO G 13	x		x		x			
LOXIOLO G 16					o		o	x
LOXIOLO G 40	x	x	x		x			
LOXIOLO P 1141					o		x	x
LOXIOLO G 12					x		o	
LOXIOLO G 12-40 / LOXIOLO 8G 12-40 V					x		o	
LOXIOLO G 15 PULVER					o		o	
LOXIOLO G 41					x			
LOXIOLO G 53					o		o	
LOXIOLO G 59					x	x	x	
LOXIOLO G 60					x	x	x	
LOXIOLO G 62	x		x		x	x	x	
LOXIOLO G 63	x		x		x	x	x	
LOXIOLO G 72					o			o
LOXIOLO GH 4					x		o	
LOXIOLO 3591	x	x			x	x		x
LOXIOLO P 728					x	x	x	
LOXIOLO EP 3500					x			
LOXIOLO G 30					x	x	x	
LOXIOLO G 32					x	x	x	
LOXIOLO G 34 R					x	x	x	
LOXIOLO GS 891							x	
LOXIOLO G 71 S	x	x	x	x				o
LOXIOLO 2050					x	x		
LOXIOLO 2899	x		x		x	x	x	
LOXIOLO VPG 2571					x	x	x	
LOXIOLO VPN 960					x	x		
LOXIOLO VPN 963					x	x		
LOXIOLO G 24	x		x		x	x	x	x
LOXIOLO G 20	x	x	x		x	x	o	

\* = pour point  
x = very suitable  
o = quite suitable

■ POLYVINYLCHLORIDE

Product	Function	Chemistry	Delivery Form	Melting Range (°C)	Dosage (%)
LOXIOL® G 21 H	Lubricant, external	Fatty acid	solid	71-80	0.1-0.5
LOXIOL® G 47	Lubricant, external	Wax ester	solid	60-64	0.3-1.0
LOXIOL® G 70 S	Lubricant, external	High molecular weight poly ester	solid	55-58	0.2-0.8
LOXIOL® G 78	Lubricant, external	Combination lubricant	solid	105-115	0.3-1.2
LOXIOL® G 78 V	Lubricant, external	Combination lubricant	solid	100-110	0.3-1.2
LOXIOL® GE 2063	Lubricant, external	Lubricant with co-stabilizing effect	solid	90-160	1.7-2.5
LOXIOL® P 1508	Lubricant, external	PE wax	solid	90-140	0.05-0.2
LOXIOL® P 1732	Lubricant, external	Combination lubricant	solid	100-115	0.3-1.2
LOXIOL® 1820	Lubricant, external	Combination lubricant	solid	115-120	0.5-1.5
LOXIOL® P 2072	Lubricant, external	Combination lubricant	solid	100-130	0.5-1.5
LOXIOL® P 621	Lubricant, external	Combination lubricant	solid	82-85	0.2-0.8
LOXIOL® 3376	Lubricant, external	High molecular weight poly ester	solid	84-88	0.5-0.8
LOXIOL® VPG 1781	Lubricant, external	Combination lubricant	solid	90-100	0.8-1.2
LOXIOL® G 71 S	Release Agent	High molecular weight poly ester	liquid	<-20*	0.2-1.0
LOXIOL® EBS SPEZ P	Release Agent	Ethylene-bis-stearamide	solid	141-147	0.2-0.4
LOXIOL® G 70 S	Release Agent	High molecular weight poly ester	solid	55-58	0.2-0.8
LOXIOL® G 72	Release Agent	High molecular weight poly ester	solid	43-47	0.3-1.0
LOXIOL® G 78	Release Agent	Combination lubricant	solid	105-115	0.3-1.2
LOXIOL® G 78 V	Release Agent	Combination lubricant	solid	100-110	0.3-1.2
EDENOL® T810T STAB	Plasticizer, high temperature	Trimellitate ester	liquid	-	30-80
EDENOL® TOTM	Plasticizer, high temperature	Trimellitate ester	liquid	-	30-80
EDENOL® 888	Plasticizer, low temperature	Sebacate ester	liquid	-	max. 50
EDENOL® DOZ	Plasticizer, low temperature	Azelaic ester	liquid	-	max. 45
EDENOL® DBS	Plasticizer, low temperature	Sebacate ester	liquid	-	max. 50
EDENOL® DIDA	Plasticizer, low temperature	Adipate ester	liquid	-	max. 50
EDENOL® 196	Plasticizer, high temperature	Diester	liquid	-	30-80
EDENOL® 1200	Plasticizer, oil & solvent resistant	Polymeric plasticizer based on adipic acid	liquid	-	30-80
EDENOL® 1215	Plasticizer, oil & solvent resistant	Polymeric plasticizer based on adipic acid	liquid	-	30-80
EDENOL® 1234	Plasticizer, oil & solvent resistant	Polymeric plasticizer based on adipic acid	liquid	-	30-80
EDENOL® B 316 SPEZIAL	Plasticizer, stabilising properties	Epoxidised linseed oil	liquid	-	-
EDENOL® D 81	Plasticizer, stabilising properties	Epoxidised soya bean oil	liquid	-	-
EDENOL® D 82 S	Plasticizer, stabilising properties	Epoxidised soya bean oil	liquid	-	-

PVC-FIELDS OF APPLICATION

Product	PVC-P				PVC-U			
	Extrusion	Calendering	Injection Moulding	Paste	Profile, Sheet	Pipe	Injection Moulding	Film
LOXIOL® G 21 H	x	x	x		x	x	o	
LOXIOL® G 47					x		o	
LOXIOL® G 70 S					x		x	x
LOXIOL® G 78					o		o	x
LOXIOL® G 78 V					o		o	x
LOXIOL® GE 2063					x			
LOXIOL® P 1508					x	x		
LOXIOL® P 1732					o		o	x
LOXIOL® 1820					x			
LOXIOL® P 2072					x			
LOXIOL® P 621								x
LOXIOL® 3376					x		x	x
LOXIOL® VPG 1781					x			
LOXIOL® G 71 S	x	x	x	x				o
LOXIOL® EBS SPEZ P	x							x
LOXIOL® G 70 S					x		x	x
LOXIOL® G 72					o			o
LOXIOL® G 78					o		o	x
LOXIOL® G 78 V					o		o	x
EDENOL® T810T STAB	x	x	x	x				
EDENOL® TOTM	x	x	x	x				
EDENOL® 888	x	x	x	x				
EDENOL® DOZ	x	x	x	x				
EDENOL® DBS	x	x	x	x				
EDENOL® DIDA	x	x	x	x				
EDENOL® 196	x	x	x	x				
EDENOL® 1200	x	x	x	x				
EDENOL® 1215	x	x	x	x				
EDENOL® 1234	x	x	x	x				
EDENOL® B 316 SPEZIAL	x	x	x	x				
EDENOL® D 81	x	x	x	x				
EDENOL® D 82 S	x	x	x	x				

\* = pour point  
x = very suitable  
o = quite suitable

## ■ POLYVINYLCHLORIDE

Product	Function	Chemistry	Delivery Form	Melting Range (°C)	Dosage (%)
LOXIOL® DP	Plasticizer, secondary	Fatty acid polyglycol ester	liquid	-	0.5-2.0
EDENOL® 190	Viscosity Regulator	Fatty acid ester	liquid	-	max. 15
EDENOL® 192	Viscosity Regulator	Fatty acid ester	liquid	< 15*	max. 15
EDENOL® 2166	Viscosity Regulator	Polyol ester	liquid	-	max. 20
EDENOL® 311	Viscosity Regulator	Fatty acid ester	liquid	-	1.0-5.0
LOXIOL® LS 3 DEO N	Viscosity Regulator	Fatty alcohol polyglycol ether	liquid	-	0.5-2.0
LOXIOL® 3366	Antistatic Agent	Polyol partial ester	liquid	-	0.5-3.0
LOXIOL® 3380	Antistatic Agent	Mixture based on polyglycol ester	liquid	-	0.5-3.0
LOXIOL® 80 X	Antistatic Agent	Mixture of anionic and non-ionic compounds	liquid	-	0.2-2.0
LOXIOL® VPA 1726	Antistatic Agent	Polyol partial ester	liquid	-	0.5-3.0
LOXIOL® 93 P	Antistatic Agent	Anionic compound	solid	-	0.2-1.0
LOXIOL® A 2	Antifogging Agent	Fatty acid ester compound	liquid	-	2.0-4.0
LOXIOL® A 4	Antifogging Agent	Fatty acid ester compound	liquid	-	2.0-4.0
LOXIOL® A 4 SPEZIAL	Antifogging Agent	Fatty acid ester compound	liquid	-	2.0-4.0
LOXIOL® E SPEZ P	Antiblocking / Slip Agent	Erucic acid amide	solid	78-84	0.5-1.0
LOXIOL® OA SPEZ P	Antiblocking / Slip Agent	Oleic acid amide	solid	70-76	0.5-1.0

## PVC-FIELDS OF APPLICATION

Product	PVC-P				PVC-U			
	Extrusion	Calendering	Injection Moulding	Paste	Profile, Sheet	Pipe	Injection Moulding	Film
LOXIOL® DP				x				
EDENOL® 190	x	x		x				
EDENOL® 192				x				
EDENOL® 2166	x							
EDENOL® 311				x				
LOXIOL® LS 3 DEO N				x				
LOXIOL® 3366	x	x	x	x				
LOXIOL® 3380	x	x	x	x				
LOXIOL® 80 X	x	x	x	x	x	x	x	x
LOXIOL® VPA 1726					x	x	x	x
LOXIOL® 93 P	x	x	x	x	x	x	x	x
LOXIOL® A 2	x							
LOXIOL® A 4	x							
LOXIOL® A 4 SPEZIAL	x							
LOXIOL® E SPEZ P				x				x
LOXIOL® OA SPEZ P				x				x

\* = pour point  
x = very suitable  
o = quite suitable

## ■ ACRYLONITRILE BUTADIENE | STYRENE COPOLYMER

Product	Function	Chemistry	Delivery Form	Melting Range (°C)	Dosage (%)
LOXIOLO® 8312	Lubricant	High-mono GMS	solid	67-71	0.1-0.5
LOXIOLO® 8314	Lubricant	High-mono GMS	solid	67-71	0.1-0.5
LOXIOLO® 8314 PASTILLE	Lubricant	High-mono GMS	solid	67-71	0.1-0.5
LOXIOLO® 8315	Lubricant	High-mono GMS	solid	55-62	0.1-0.5
LOXIOLO® 8315 PASTILLE	Lubricant	High-mono GMS	solid	55-62	0.1-0.5
LOXIOLO® EBS SPEZ P	Lubricant	Ethylene-bis-stearamide	solid	141-147	1.0-2.0
LOXIOLO® EP 8578	Lubricant	Polyol ester	solid	60-65	0.5-1.5
LOXIOLO® EP-PTS	Lubricant	Polyol ester	solid	50-55	1.0-1.5
LOXIOLO® G 32	Lubricant	Wax ester	solid	52-56	1.0-1.5
LOXIOLO® G 34 R	Lubricant	Ester wax	solid	53-58	1.0-1.5
LOXIOLO® G 78	Lubricant	Combination lubricant	solid	100-115	0.3-1.0
LOXIOLO® G 78 V	Lubricant	Combination lubricant	solid	100-115	0.3-1.0
LOXIOLO® P 861 / 3.5	Lubricant	Polyol ester	solid	60-63	1.0-1.5
LOXIOLO® P 861 / 3.5 SPECIAL	Lubricant	Polyol ester	solid	60-63	1.0-1.5
LOXIOLO® EP 3500	Release Agent	Ca-stearate	solid	150-170	0.2-0.5
LOXIOLO® G 32	Release Agent	Wax ester	solid	52-56	1.0-1.5
LOXIOLO® G 34 R	Release Agent	Ester wax	solid	53-58	1.0-1.5
LOXIOLO® G 78	Release Agent	Combination lubricant	solid	100-115	0.3-1.0
LOXIOLO® G 78 V	Release Agent	Combination lubricant	solid	100-115	0.3-1.0
LOXIOLO® 8312	Antiblocking / Slip Agent	High-mono GMS	solid	67-71	0.1-0.5
LOXIOLO® 8314	Antiblocking- / Slip Agent	High-mono GMS	solid	67-71	0.1-0.5
LOXIOLO® 8314 PASTILLE	Antiblocking- / Slip Agent	High-mono GMS	solid	67-71	0.1-0.5
LOXIOLO® 8315	Antiblocking- / Slip Agent	High-mono GMS	solid	55-62	0.1-0.5
LOXIOLO® 8315 PASTILLE	Antiblocking- / Slip Agent	High-mono GMS	solid	56-62	0.1-0.5
LOXIOLO® EP 55	Antiblocking / Slip Agent	Glycerol partial ester	solid	58-61	0.5-1.0
LOXIOLO® 3380	Antistatic Agent	Mixture based on polyglycol ester	liquid	-	0.2-1.0
LOXIOLO® 80 X	Antistatic Agent	Mixture of anionic and non-ionic compounds	liquid	-	0.2-1.0
LOXIOLO® 93 P	Antistatic Agent	Anionic compound	solid	-	0.2-3.0

## ■ POLYAMIDE

Product	Function	Chemistry	Delivery Form	Melting Range (°C)	Dosage (%)
LOXIOLO® 8312	Lubricant	High-mono GMS	solid	67-71	0.1-0.3
LOXIOLO® 8314	Lubricant	High-mono GMS	solid	67-71	0.1-0.3
LOXIOLO® 8314 PASTILLE	Lubricant	High-mono GMS	solid	67-71	0.1-0.3
LOXIOLO® 8315	Lubricant	High-mono GMS	solid	55-62	0.1-0.3
LOXIOLO® 8315 PASTILLE	Lubricant	High-mono GMS	solid	55-62	0.1-0.3
LOXIOLO® EP-PTS	Lubricant	Polyol ester	solid	50-55	0.3-0.5
LOXIOLO® G 32	Lubricant	Wax ester	solid	52-56	0.3-0.5
LOXIOLO® G 78	Lubricant	Combination lubricant	solid	100-115	0.3-0.5
LOXIOLO® G 78 V	Lubricant	Combination lubricant	solid	100-115	0.3-0.5
EDENOL® 194 / 1	Release Agent	Fatty acid ester	liquid	-	0.2-0.5
LOXIOLO® EP 339	Release Agent	Polyol ester / Ca-soap	solid	109-115	0.3-0.5
LOXIOLO® EP-PTS	Release Agent	Polyol ester	solid	50-55	0.3-0.5
LOXIOLO® G 32	Release Agent	Wax ester	solid	52-56	0.3-0.5
LOXIOLO® P 1206	Release Agent	Glycerol partial ester	solid	53-56	0.2-0.5
LOXIOLO® 3380	Antistatic Agent	Mixture based on polyglycol ester	liquid	-	0.2-1.0
LOXIOLO® 80 X	Antistatic Agent	Mixture of anionic and non-ionic compounds	liquid	-	0.2-1.0
LOXIOLO® 93 P	Antistatic Agent	Anionic compound	solid	-	0.2-1.0

## ■ POLYCARBONATE

Product	Function	Chemistry	Delivery Form	Melting Range (°C)	Dosage (%)
LOXIOLO® EP 8578	Lubricant	Polyol ester	solid	60-65	0.2-0.5
LOXIOLO® G 32	Lubricant	Wax ester	solid	52-56	0.2-0.5
LOXIOLO® P 861 / 3.5	Lubricant	Polyol ester	solid	60-63	0.2-0.5
LOXIOLO® P 861 / 3.5 SPECIAL	Lubricant	Polyol ester	solid	60-63	1.0-1.5
LOXIOLO® 3820	Release Agent	Wax ester	liquid	-	0.2-0.5
LOXIOLO® EP 8578	Release Agent	Polyol ester	solid	60-65	0.2-0.5
LOXIOLO® EP-PTS	Release Agent	Polyol ester	solid	50-55	0.2-0.5
LOXIOLO® G 32	Release Agent	Wax ester	solid	52-56	0.2-0.5
LOXIOLO® P 861 / 3.5	Release Agent	Polyol ester	solid	60-63	0.2-0.5
LOXIOLO® P 861 / 3.5 SPECIAL	Release Agent	Polyol ester	solid	60-63	1.0-1.5



■ POLYETHYLENE

Product	Function	Chemistry	Delivery Form	Melting Range (°C)	Dosage (%)
LOXIOL® 8312	Lubricant	High-mono GMS	solid	67-71	0.3-1.0
LOXIOL® 8314	Lubricant	High-mono GMS	solid	67-71	0.3-1.0
LOXIOL® 8314 PASTILLE	Lubricant	High-mono GMS	solid	67-71	0.3-1.0
LOXIOL® 8315	Lubricant	High-mono GMS	solid	55-62	0.3-1.0
LOXIOL® 8315 PASTILLE	Lubricant	High-mono GMS	solid	55-62	0.3-1.0
LOXIOL® EBS SPEZ P	Lubricant	Ethylene-bis-stearamide	solid	141-147	0.2-0.5
LOXIOL® EP 3500	Lubricant	Ca-stearate	solid	150-170	0.2-0.5
LOXIOL® E SPEZ P	Release Agent	Erucic acid amide	solid	78-84	0.2-0.5
LOXIOL® EP 3500	Release Agent	Ca-stearate	solid	150-170	0.2-0.5
LOXIOL® EP 55	Release Agent	Glycerol partial ester	solid	58-61	0.5-1.0
LOXIOL® OA SPEZ P	Release Agent	Oleic acid amide	solid	70-76	0.2-0.5
LOXIOL® 3366	Antistatic Agent	Polyol partial ester	liquid	-	0.2-1.0
LOXIOL® 3380	Antistatic Agent	Mixture based on polyglycol ester	liquid	-	0.2-1.0
LOXIOL® 80 X	Antistatic Agent	Mixture of anionic and non-ionic compounds	liquid	-	0.2-1.0
LOXIOL® DP	Antistatic Agent	Fatty acid polyglycol ester	liquid	-	0.2-1.0
LOXIOL® LS 3 DEO N	Antistatic Agent	Fatty alcohol polyglycol ether	liquid	-	0.5-2.0
LOXIOL® VPA 1726	Antistatic Agent	Polyol partial ester	liquid	-	0.2-1.5
LOXIOL® 1010	Antistatic Agent	Fatty acid amide	solid	38-42	PE-LD 0.2-0.5 PE-HD 0.5-1.0
LOXIOL® 8312	Antistatic Agent	High-mono GMS	solid	67-71	0.4-1.5
LOXIOL® 8314	Antistatic Agent	High-mono GMS	solid	67-71	0.4-1.5
LOXIOL® 8314 PASTILLE	Antistatic Agent	High-mono GMS	solid	67-71	0.4-1.5
LOXIOL® 8315	Antistatic Agent	High-mono GMS	solid	55-62	0.4-1.5
LOXIOL® 8315 PASTILLE	Antistatic Agent	High-mono GMS	solid	55-62	0.4-1.5
LOXIOL® EP 55	Antistatic Agent	Glycerol partial ester	solid	58-61	0.5-1.0
LOXIOL® A 2	Antifogging Agent	Fatty acid ester compound	liquid	-	2.0-4.0
LOXIOL® A 4	Antifogging Agent	Fatty acid ester compound	liquid	-	0.5-1.0
LOXIOL® LS 3 DEO N	Antifogging Agent	Fatty alcohol polyglycol ether	liquid	-	0.5-2.0
LOXIOL® E SPEZ P	Antiblocking / Slip Agent	Erucic acid amide	solid	78-84	0.2-0.5
LOXIOL® EBS SPEZ P	Antiblocking / Slip Agent	Ethylene-bis-stearamide	solid	141-147	0.2-0.5
LOXIOL® OA SPEZ P	Antiblocking / Slip Agent	Oleic acid amide	solid	70-76	0.2-0.5

■ POLYETHYLENETEREPHTHALATE | POLYBUTYLENETEREPHTHALATE

Product	Function	Chemistry	Delivery Form	Melting Range (°C)	Dosage (%)
EDENOL® 194 / 1	Lubricant	Fatty acid ester	liquid	-	0.2-0.5
LOXIOL® G 40	Lubricant	Wax ester	liquid	-	0.2-0.5
LOXIOL® 3591	Lubricant, internal	Combination lubricant	solid	100-108	0.2-1.5
LOXIOL® 3591 PASTILLE	Lubricant, internal	Combination lubricant	solid	100-108	0.2-1.5
LOXIOL® P 728	Lubricant	Polyol partial ester	solid	49-52	0.2-0.5
LOXIOL® P 861 / 3.5	Lubricant	Polyol ester	solid	60-63	0.2-0.5
LOXIOL® P 861 / 3.5 SPECIAL	Lubricant	Polyol ester	solid	60-63	1.0-1.5
LOXIOL® EP 339	Release Agent	Polyol ester / Ca-soap	solid	109-115	0.3-0.5
LOXIOL® EP 8578	Release Agent	Polyol ester	solid	60-65	0.2-0.5
LOXIOL® EW-K 8391	Release Agent	Lubricant containing metallic soap	solid	95-105	0.2-0.5
LOXIOL® P 1206	Release Agent	Glycerol partial ester	solid	53-56	0.2-0.5
LOXIOL® P 861 / 3.5	Release Agent	Polyol ester	solid	60-63	0.2-0.5
LOXIOL® P 861 / 3.5 SPECIAL	Release Agent	Polyol ester	solid	60-63	1.0-1.5
LOXIOL® 80 X	Antistatic Agent	Mixture of anionic and non-ionic compounds	liquid	-	0.1-1.0
LOXIOL® VPA 1726	Antistatic Agent	Polyol partial ester	liquid	-	0.2-1.5
LOXIOL® 8312	Antistatic Agent	High-mono GMS	solid	67-71	0.2-0.5
LOXIOL® 8314	Antistatic Agent	High-mono GMS	solid	67-71	0.2-0.5
LOXIOL® 8314 PASTILLE	Antistatic Agent	High-mono GMS	solid	67-71	0.2-0.5
LOXIOL® 8315	Antistatic Agent	High-mono GMS	solid	55-62	0.2-0.5
LOXIOL® 8315 PASTILLE	Antistatic Agent	High-mono GMS	solid	55-62	0.2-0.5
LOXIOL® 3366	Antistatic Agent	Polyol partial ester	liquid	-	0.2-1.0
LOXIOL® P 728	Antiblocking / Slip Agent	Polyol partial ester	solid	49-52	0.2-0.5

## ■ PHENOLIC RESIN

Product	Function	Chemistry	Delivery Form	Melting Range (°C)	Dosage (%)
LOXIOL® PF 320	Lubricant, external	Special lubricant without metal soaps	solid	105-109	0.5-1.5
LOXIOL® G 20	Release Agent	Fatty acid	solid	54-56	0.2-1.5
LOXIOL® S SPEZ P	Release Agent	Stearic acid amide	solid	96-104	0.1-1.0
LOXIOL® PF 320	Viscosity depreasant	Special lubricant without metal soaps	solid	105-109	0.5-1.5

## ■ POLYMETHYLMETHACRYLATE

Product	Function	Chemistry	Delivery Form	Melting Range (°C)	Dosage (%)
LOXIOL® 8312	Lubricant	High-mono GMS	solid	67-71	0.1-0.3
LOXIOL® 8314	Lubricant	High-mono GMS	solid	67-71	0.1-0.3
LOXIOL® 8314 PASTILLE	Lubricant	High-mono GMS	solid	67-71	0.1-0.3
LOXIOL® 8315	Lubricant	High-mono GMS	solid	55-62	0.1-0.3
LOXIOL® 8315 PASTILLE	Lubricant	High-mono GMS	solid	55-62	0.1-0.3
LOXIOL® G 20	Lubricant	Fatty acid	solid	54-56	0.1-0.5
LOXIOL® G 53	Lubricant	Fatty alcohol	solid	49-54	0.2-0.3
LOXIOL® P 1206	Lubricant	Glycerol partial ester	solid	53-56	0.2-0.5
EDENOL® BS	Release Agent	Fatty acid ester	liquid	-	0.2-0.3
LOXIOL® G 20	Release Agent	Fatty acid	solid	54-56	0.1-0.5
LOXIOL® P 1206	Release Agent	Glycerol partial ester	solid	53-56	0.2-0.5
LOXIOL® P 861 / 3.5	Release Agent	Polyol ester	solid	60-63	0.1-0.3
LOXIOL® P 861 / 3.5 SPECIAL	Release Agent	Polyol ester	solid	60-63	1.0-1.5
LOXIOL® 3380	Antistatic Agent	Mixture based on polyglycol ester	liquid	-	0.2-1.0
LOXIOL® 80 X	Antistatic Agent (clouding possible)	Mixture of anionic and non-ionic compounds	liquid	-	0.2-1.0

## ■ POLYOXYMETHYLENE

Product	Function	Chemistry	Delivery Form	Melting Range (°C)	Dosage (%)
LOXIOL® 8312	Lubricant	High-mono GMS	solid	67-71	0.2-0.5
LOXIOL® 8314	Lubricant	High-mono GMS	solid	67-71	0.2-0.5
LOXIOL® 8314 PASTILLE	Lubricant	High-mono GMS	solid	67-71	0.2-0.5
LOXIOL® 8315	Lubricant	High-mono GMS	solid	55-62	0.2-0.5
LOXIOL® 8315 PASTILLE	Lubricant	High-mono GMS	solid	55-62	0.2-0.5
LOXIOL® EP 218	Lubricant	Glycerol ester	solid	57-62	0.5-1.5
LOXIOL® G 20	Lubricant	Fatty acid	solid	54-56	0.1-0.5
LOXIOL® P 1206	Lubricant	Glycerol partial ester	solid	53-56	0.2-0.5
LOXIOL® P 728	Lubricant	Polyol partial ester	solid	49-52	0.2-0.5
LOXIOL® G 20	Release Agent	Fatty acid	solid	54-56	0.1-0.5
LOXIOL® G 70 S	Release Agent	High molecular weight poly ester	solid	55-58	0.3-0.5
LOXIOL® P 1206	Release Agent	Glycerol partial ester	solid	53-56	0.2-0.5
LOXIOL® P 728	Release Agent	Polyol partial ester	solid	49-52	0.2-0.5
LOXIOL® 3380	Antistatic Agent	Mixture based on polyglycol ester	liquid	-	0.1-0.5
LOXIOL® 80 X	Antistatic Agent	Mixture of anionic and non-ionic compounds	liquid	-	0.1-0.5
LOXIOL® 8312	Antistatic Agent	High-mono GMS	solid	67-71	0.2-0.5
LOXIOL® 8314	Antistatic Agent	High-mono GMS	solid	67-71	0.2-0.5
LOXIOL® 8314 PASTILLE	Antistatic Agent	High-mono GMS	solid	67-71	0.2-0.5
LOXIOL® 8315	Antistatic Agent	High-mono GMS	solid	55-62	0.2-0.5
LOXIOL® 8315 PASTILLE	Antistatic Agent	High-mono GMS	solid	55-62	0.2-0.5
LOXIOL® EBS SPEZ P	Antiblocking / Slip Agent	Ethylene-bis-stearamide	solid	141-147	0.2-0.5



## ■ POLYPROPYLENE

Product	Function	Chemistry	Delivery Form	Melting Range (°C)	Dosage (%)
LOXIOL® 8312	Lubricant	High-mono GMS	solid	67-71	0.3-1.0
LOXIOL® 8314	Lubricant	High-mono GMS	solid	67-71	0.3-1.0
LOXIOL® 8314 PASTILLE	Lubricant	High-mono GMS	solid	67-71	0.3-1.0
LOXIOL® 8315	Lubricant	High-mono GMS	solid	55-62	0.3-1.0
LOXIOL® 8315 PASTILLE	Lubricant	High-mono GMS	solid	55-62	0.3-1.0
LOXIOL® EBS SPEZ P	Lubricant	Ethylene-bis-stearamide	solid	141-147	0.2-0.5
LOXIOL® EP 3500	Lubricant	Ca-stearate	solid	150-170	0.2-0.5
LOXIOL® G 32	Lubricant	Wax ester	solid	52-56	0.5-1.0
LOXIOL® G 34 R	Lubricant	Ester wax	solid	53-58	0.5-1.0
LOXIOL® 8312	Release Agent	High-mono GMS	solid	67-71	0.3-1.0
LOXIOL® 8314	Release Agent	High-mono GMS	solid	67-71	0.3-1.0
LOXIOL® 8314 PASTILLE	Release Agent	High-mono GMS	solid	67-71	0.3-1.0
LOXIOL® 8315	Release Agent	High-mono GMS	solid	55-62	0.3-1.0
LOXIOL® 8315 PASTILLE	Release Agent	High-mono GMS	solid	55-62	0.3-1.0
LOXIOL® EP 3500	Release Agent	Ca-stearate	solid	150-170	0.2-0.5
LOXIOL® EP 55	Release Agent	Glycerol partial ester	solid	58-61	0.5-1.0
LOXIOL® EW-K 8391	Release Agent	Lubricant containing metallic soap	solid	95-105	0.2-0.5
LOXIOL® G 34 R	Release Agent	Ester wax	solid	53-58	0.5-1.0
LOXIOL® G 32	Release Agent	Wax ester	solid	52-56	0.5-1.0
LOXIOL® 3366	Antistatic Agent	Polyol partial ester	liquid	-	0.2-1.0
LOXIOL® 3380	Antistatic Agent	Mixture based on polyglycol ester	liquid	-	0.2-1.0
LOXIOL® 80 X	Antistatic Agent	Mixture of anionic and non-ionic compounds	liquid	-	0.2-1.0
LOXIOL® VPA 1726	Antistatic Agent	Polyol partial ester	liquid	-	0.2-1.5
LOXIOL® 1010	Antistatic Agent	Fatty acid amide	solid	38-42	0.2-0.5
LOXIOL® E SPEZ P	Antiblocking / Slip Agent	Erucic acid amide	solid	78-84	0.2-0.5
LOXIOL® EBS SPEZ P	Antiblocking / Slip Agent	Ethylene-bis-stearamide	solid	141-147	0.2-0.5
LOXIOL® OA SPEZ P	Antiblocking / Slip Agent	Oleic acid amide	solid	70-76	0.2-0.5

## ■ POLYSTYRENE

Product	Function	Chemistry	Delivery Form	Melting Range (°C)	Dosage (%)
EDENOL® 194 / 1	Release Agent	Fatty acid ester	liquid	-	0.2-0.3
EDENOL® BS	Release Agent	Fatty acid ester	liquid	-	0.2-0.3
LOXIOL® EP 55	Release Agent	Glycerol partial ester	solid	58-61	0.5-1.0
LOXIOL® G 53	Release Agent	Fatty alcohol	solid	49-54	0.2-0.3
LOXIOL® VPA 1726	Antistatic Agent	Polyol partial ester	liquid	-	0.2-1.5
LOXIOL® 8312	Antistatic Agent	High-mono GMS	solid	67-71	0.4-1.5
LOXIOL® 8314	Lubricant	High-mono GMS	solid	67-71	0.4-1.5
LOXIOL® 8314 PASTILLE	Lubricant	High-mono GMS	solid	67-71	0.4-1.5
LOXIOL® 8315	Lubricant	High-mono GMS	solid	55-62	0.4-1.5
LOXIOL® 8315 PASTILLE	Lubricant	High-mono GMS	solid	55-62	0.4-1.5
LOXIOL® 80 X	Antistatic Agent (cloudy effect possible)	Mixture of anionic and non-ionic compounds	liquid	-	0.1-0.5
LOXIOL® 2005	Antifogging Agent	Polyol partial ester	solid	51-59	0.5-3.0

## ■ POLYURETHANE

Product	Function	Chemistry	Delivery Form	Melting Range (°C)	Dosage (%)
LOXIOL® G 71 S	Release Agent, good printing properties	High molecular weight poly ester	liquid	<-20*	0.6-1.0
LOXIOL® EBS SPEZ P	Release Agent, can influence printing properties	Ethylene-bis-stearamide	solid	141-147	0.5-1.0
LOXIOL® EP 55	Release Agent	Glycerol partial ester	solid	58-61	0.5-1.0
LOXIOL® EP-PTS	Release Agent	Polyol ester	solid	50-55	1.0-1.5
LOXIOL® G 15 PULVER	Release Agent	Fatty acid ester of polyol	solid	83-87	0.5-2.5
LOXIOL® G 70 S	Release Agent, good printing properties	High molecular weight poly ester	solid	55-58	0.6-1.0
LOXIOL® P 728	Release Agent	Polyol partial ester	solid	49-52	0.5-1.0
LOXIOL® 3380	Antistatic Agent	Mixture based on polyglycol ester	liquid	-	0.5-5.0
LOXIOL® 80 X	Antistatic Agent	Mixture of anionic and non-ionic compounds	liquid	-	0.5-5.0

\* = pour point

## ■ STYRENE / ACRYLONITRILE COPOLYMER

Product	Function	Chemistry	Delivery Form	Melting Range (°C)	Dosage (%)
EDENOL® BS	Lubricant	Fatty acid ester	liquid	-	0.1-0.3
LOXIOL® G 40	Lubricant	Wax ester	liquid	-	-
LOXIOL® 8312	Lubricant	High-mono GMS	solid	67-71	-
LOXIOL® 8314	Lubricant	High-mono GMS	solid	67-71	-
LOXIOL® 8314 PASTILLE	Lubricant	High-mono GMS	solid	67-71	-
LOXIOL® 8315	Lubricant	High-mono GMS	solid	55-62	-
LOXIOL® 8315 PASTILLE	Lubricant	High-mono GMS	solid	55-62	-
LOXIOL® EBS SPEZ P	Lubricant	Ethylene-bis-stearamide	solid	141-147	-
LOXIOL® G 53	Lubricant	Fatty alcohol	solid	49-54	-
EDENOL® 194 / 1	Release Agent	Fatty acid ester	liquid	-	-
EDENOL® BS	Release Agent	Fatty acid ester	liquid	-	-
LOXIOL® G 40	Release Agent	Wax ester	liquid	-	-
LOXIOL® 8312	Release Agent	High-mono GMS	solid	67-71	-
LOXIOL® G 53	Release Agent	Fatty alcohol	solid	49-54	-
LOXIOL® 3380	Antistatic Agent	Mixture based on polyglycol ester	liquid	-	-
LOXIOL® 80 X	Antistatic Agent (clouding possible)	Mixture of anionic and non-ionic compounds	liquid	-	-
LOXIOL® VPA 1726	Antistatic Agent	Polyol partial ester	liquid	-	-

## ■ STYRENE / BUTADIENE COPOLYMER

Product	Function	Chemistry	Delivery Form	Melting Range (°C)	Dosage (%)
LOXIOL® 8312	Lubricant	High-mono GMS	solid	67-71	0.1-0.3
LOXIOL® 8314	Lubricant	High-mono GMS	solid	67-71	-
LOXIOL® 8314 PASTILLE	Lubricant	High-mono GMS	solid	67-71	-
LOXIOL® 8315	Lubricant	High-mono GMS	solid	55-62	-
LOXIOL® 8315 PASTILLE	Lubricant	High-mono GMS	solid	55-62	-
LOXIOL® EBS SPEZ P	Lubricant	Ethylene-bis-stearamide	solid	141-147	-
LOXIOL® EP 339	Lubricant	Polyol ester / Ca-soap	solid	109-115	-
LOXIOL® G 20	Lubricant	Fatty acid	solid	54-56	-
LOXIOL® EP 3500	Release Agent	Ca-stearate	solid	150-170	-
LOXIOL® G 20	Release Agent	Fatty acid	solid	54-56	-
LOXIOL® G 32	Release Agent	Wax ester	solid	52-56	-
LOXIOL® 3366	Antistatic Agent	Polyol partial ester	liquid	-	-
LOXIOL® 3380	Antistatic Agent	Mixture based on polyglycol ester	liquid	-	-
LOXIOL® 80 X	Antistatic Agent	Mixture of anionic and non-ionic compounds	liquid	-	-
LOXIOL® 93 P	Antistatic Agent	Anionic compound	solid	-	-
LOXIOL® E SPEZ P	Antiblocking / Slip Agent	Erucic acid amide	solid	78-84	-
LOXIOL® OA SPEZ P	Antiblocking / Slip Agent	Oleic acid amide	solid	70-76	-



# EDENOL® & LOXIOL®

LOXIOL® and EDENOL® are the plastics additives brand names of Emery Oleochemicals. Our products are based on natural resources for the processing of plastics materials. The main product groups and functions we offer are:

**Lubricants** – Optimise the processing characteristics of plastics materials. Our lubricants improve the rheology of the polymer melt by reducing friction and resistance to flow within the melt. >>> Positive influence on the mechanical properties, machinery output and surface finish of the final product.

**Release Agents** – Aid in the separation of a component from its mould. >>> Positive effect on cycle time and surface finish.

**Special Plasticizers** – Improve processability and performance of plastics and synthetic rubbers. >>> Positive influence on flexibility and durability of the final article.

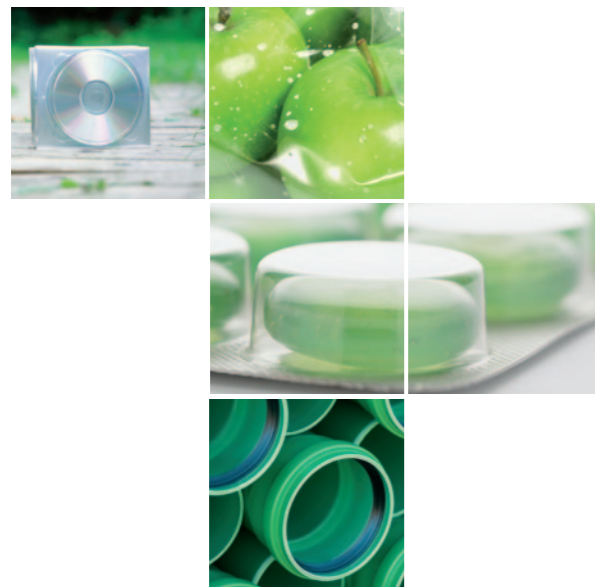


**Viscosity Regulators** – Improve the flow of PVC paste formulations. >>> Positive influence on processing temperature and processability.

**Antistatic Agents** – Eliminate the build-up of a static charge in the finished article. >>> Positive effects including avoidance of dust pick-up, handling problems as well as the risks associated with static discharges.

**Antifogging Agents** – Prevent the formation of water droplets on plastics film surfaces. >>> Positive effect on visibility, quality and attractiveness of packed products and avoidance of damage to plants in growing tunnels.

**Antiblocking/Slip Agents** – Reduce the friction between the polymer to polymer surface or processing equipment. >>> Positive effect on production handling by preventing adhesion.



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